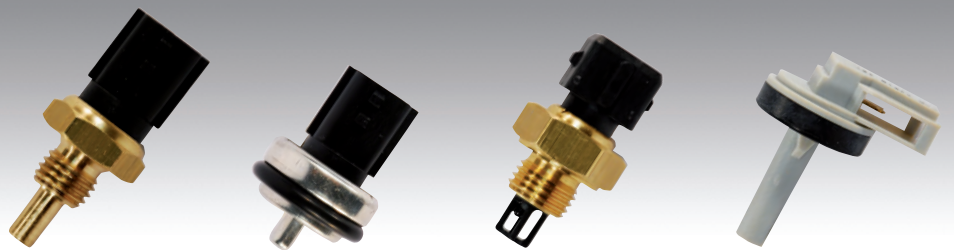




FAE

CGM1

COMPONENTES GESTIÓN DEL MOTOR ENGINE MANAGEMENT COMPONENTS CAPTEURS DE GESTION MOTEUR



www.fae.es

Catálogos / Catalogs / Catalogues



CG5-A y B



COX2



CT1



MT20



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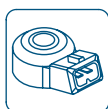
- Sensores de presión absoluta (MAP)
- Manifold absolute pressure sensors (MAP)
- Capteurs de pression (MAP)

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- Sensores
- Sensors
- Sensors

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- Sensores de detonación
- Knock Sensors
- Capteurs de cliquetis

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- Captadores de impulsos
- Revolution and timing sensors
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APLICACIONES POR VEHÍCULOS
VEHICLE APPLICATION
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INTRODUCCIÓN

Presentamos este nuevo **Catálogo CGM1** que contiene una ampliación de la gama de nuestros productos y se ha podido realizar con la cooperación de nuestros clientes y colaboradores.

F A E considera la calidad como un objetivo prioritario y ello nos obliga a seguir avanzando en este campo, promoviendo la aplicación de los medios más actualizados para el proyecto y fabricación de nuestros productos, como son el diseño asistido por ordenador, la automatización de controles y procesos, los medios para ensayos de fiabilidad, etc., que nos permiten superar con éxito las Auditorías de Calidad de nuestros clientes, llegando a desarrollar conjuntamente productos para sus nuevos vehículos.

Con este Catálogo pretendemos ayudar a nuestros clientes en la rápida identificación de los productos de nuestra fabricación que **reemplazan adaptándose a los equivalentes de origen**.

Debido a las constantes variaciones de los fabricantes de vehículos, no podemos garantizar la completa exactitud de los datos aportados en este Catálogo de **F A E**, sirviendo éste únicamente como guía. Los nombres y referencias de los fabricantes sirven únicamente para ayudar a encontrar más rápidamente nuestros productos.

GARANTIA. **F A E** garantiza todos los productos contra fallos de fabricación. La garantía se limita al cambio del producto defectuoso, no cubriendo la mala aplicación o manipulación del mismo.

NOTAS.

- **F A E no aceptará devoluciones transcurridos seis meses del suministro.**
 - **F A E** ante cualquier tipo de litigio se remite a los Tribunales de Barcelona.
 - **F A E** se reserva el derecho a modificar las características de sus productos sin previo aviso.
 - La información de temperaturas está indicada en grados centígrados.
 - La información sobre presiones está dada en bares.
 - Las unidades de medida de los Calentadores están indicadas en: milímetros para las longitudes, segundos para los tiempos y Newtons por metro para los pares de apriete.
 - En la etiqueta impresa en las cajas de los Cables de bujías, figuran todas las aplicaciones del juego de cables, independientemente de la información que se dé en el Catálogo.
 - Las constantes actualizaciones de nuestro Catálogo, nos permiten hacer pequeñas modificaciones en los juegos de cables, para que se adapten al mayor número de vehículos.
- En caso de duda, recuerde que nuestro servicio técnico le podrá asesorar para garantizar un buen uso.



INTRODUCTION

This new **CGM1 Catalog** contains a increase in the range of our products. We have been able to compile it by combining efforts with our clients and cooperators.

Quality is and has always been considered a top priority at **F A E**. We feel compelled to follow that line by using the most advanced methods of production and design on all projects, such as Computer Aided Design (CAD), automated control and production, advanced elements for testing reliability, durability, etc. This allows us to successfully pass our clients' quality standards and even to work together to develop products for their new vehicles.

By means of this new Catalog we intend to enable our clients to quickly identify **our products so that they can be adapted to replace the original ones**.

Since car manufacturers are constantly modifying their vehicles we cannot guarantee the full accuracy of the information given in this Catalogue. It is only intended as a guide to our products. Manufacturer's names and original numbers are quoted for reference purposes only.

GUARANTEE. All **F A E** products are guaranteed against any manufacturing defects. The guarantee is limited to the replacement of the faulty parts. **F A E** does not hold itself responsible for problems which arise from the incorrect use of its products.

NOTES.

- **F A E will not accept any return after six months of delivery.**
- In case of litigation we refer to the Court of Barcelona.
- **F A E** reserves the right to modify the characteristics of its products without prior warning.
- All the information relating to temperature is in degrees centigrade.
- Information referring to pressure is given in bars.
- All measurement units started in Glow plugs are in millimeters. Torques are in Newton by meter.
- Apart from the information provided in the Ignition leads, the printed label on the box includes all the applications for the set of ignition leads.
- Constant up-dating of our Catalogue enables us to make small changes in the specifications of the ignition leads so that they adapt to the largest possible range of vehicle.



INTRODUCTION

Nous présentons ce nouveau **Catalogue CGM1** qui contient une ampliation des séries de nos produits et qu'a été réalisé grâce à la coopération de nos clients et collaborateurs.

La qualité est l'objectif prioritaire de **F A E** et ceci nous oblige à continuer nos efforts en favorisant l'application et la mise à jour des moyens pour la conception et la fabrication de nos produits, tels que la conception assistée par ordinateur, l'automatisation des contrôles et des processus de production, les moyens pour les essais de fiabilité, etc., qui nous permettent de travailler avec succès les contrôles de qualité de nos clients, au point de développer ensemble des produits pour leurs nouveaux véhicules.

Ce Catalogue est établi dans le but de faciliter à nos clients l'identification des produits que nous fabriquons et **qui peuvent s'adapter pour remplacer les pièces d'origine**.

Du fait des constantes variations de la part des fabricants de véhicules, nous ne pouvons pas garantir la parfaite exactitude des données fournies par ce Catalogue **F A E** et il ne peut être considéré qu'à titre indicatif. Les noms et numéros des fabricants sont mentionnés seulement pour faciliter la recherche de nos références.

GARANTIE. Tous les produits **F A E** sont garantis contre les défauts de fabrication. La garantie est limitée au remplacement des pièces défectueuses, et **F A E** décline toute responsabilité concernant tout problème dû à l'utilisation incorrecte de ses produits.

REMARQUES.

- **F A E n'acceptera aucune dévolution passés six mois de la date de livraison.**
- En cas de litige nous nous en remettons aux Tribunaux de Barcelone.
- **F A E** se réserve le droit de modifier sans avis les caractéristiques de ses produits.
- Les indications de température sont données en degrés Celsius.
- La pression est indiquée en bars.
- Toutes les unités de mesure indiquées sur le Bougie de préchauffage sont en millimeters. La couple de serrage sont en Newton par metre.
- Toutes les applications du jeu de faisceaux de bougie figurent sur l'étiquette imprimée qui est apposée sur les boîtes, indépendamment de l'information fournie dans le Catalogue.
- Grâce à la mise en jour permanente de notre Catalogue, nous pouvons faire de petites modifications dans les faisceaux de bougies, pour qu'ils s'adaptent au plus grand nombre de véhicules possible.

Para más aplicaciones consulte también

For further applications see

Pour déterminer les autres affectations veuillez vous référer à



NOVEDADES / NEW PRODUCTS / NOUVEAUTES

REF.FAE	MARCAS	PÁGS.
15001	ALFA ROMEO/CITROËN/DAEWOO/FIAT/FORD/OPEL	9
15002	OPEL/RENAULT/VOLVO	9
15003	SAAB	9
15005	FORD	9
15006	ALFA ROMEO/CITROËN/FIAT/LANCIA	9
15008	FORD/SAAB	9
15009	CITROËN/FIAT/LANCIA/PEUGEOT/RENAULT	10
15011	CITROËN/FIAT/LANCIA/PEUGEOT/RENAULT	10
15012	CITROËN/FIAT/LANCIA/PEUGEOT/RENAULT	10
15013	CHEVROLET/DAEWOO/FIAT/OPEL/RENAULT	10
15014	AUDI/CITROËN/FIAT/PEUGEOT/SEAT/VOLKSWAGEN	10
15015	CITROËN/FORD/HONDA/MG/ROVER	10
15016	DACIA/NISSAN/OPEL/RENAULT	11
15017	CITROËN/FIAT/LANCIA/PEUGEOT/SUZUKI	11
15018	NISSAN/RENAULT/VOLVO	11
15019	ALFA ROMEO/FIAT/LANCIA/NISSAN/OPEL/RENAULT	11
15021	FIAT/LANCIA	11
15022	FORD	11
15023	NISSAN/OPEL/RENAULT	12
15024	MERCEDES BENZ/PUCH	12
15025	MERCEDES BENZ/PUCH/VOLKSWAGEN	12
15026	AUDI/SEAT/SKODA/VOLKSWAGEN	12
15027	CITROËN/FIAT/FORD/LANCIA/PEUGEOT/TOYOTA	12
15028	BMW	12
15029	BMW/LAND ROVER/OPEL	13
15030	AUDI/FORD/SEAT/SKODA/VOLKSWAGEN	13
15031	SEAT/VOLKSWAGEN	13
15032	SEAT/VOLKSWAGEN	13
15033	AUDI/SEAT/SKODA/VOLKSWAGEN	13
15034	AUDI/SEAT/SKODA/VOLKSWAGEN	13
15035	CITROËN/FIAT/PEUGEOT	14
15036	ALFA ROMEO/CITROËN/FIAT/FORD/HONDA/LANCIA	14
15037	AUDI/FORD/SEAT/SKODA/VOLKSWAGEN	14
15038	AUDI/SEAT/SKODA/VOLKSWAGEN	14
15039	FORD/JAGUAR/MAZDA/VOLVO	14
15040	CITROËN/DAIHATSU/PEUGEOT/TOYOTA	14
33456	HONDA	33
33501	OPEL/SAAB/VAUXHALL	34
33503	MERCEDES BENZ	34
33880	MERCEDES BENZ	43
33890	BMW	44
60100	CITROËN/MERCEDES/PEUGEOT/RENAULT/SAAB/SEAT	53
60101	ALFA ROMEO/CITROËN/FIAT/HYUNDAI/LANCIA/OPEL	53
60102	CITROËN/FIAT/LANCIA/PEUGEOT/RENAULT	53
60103	CITROËN/PEUGEOT/RENAULT	53
60104	ALFA ROMEO/FIAT/HONDA/LANCIA/MITSUBISHI/OPEL	53
60105	CITROËN/DAIHATSU/PEUGEOT/TOYOTA/LEXUS	53
60106	ALFA ROMEO/BMW/CITROËN/FORD/OPEL/PEUGEOT	54
60107	ALFA ROMEO/CHEVROLET/OPEL/SAAB	54
60108	AUDI/VOLKSWAGEN	54
60109	FORD/VOLKSWAGEN	54
60110	BMW/VOLKSWAGEN	54
60111	ALFA ROMEO/DAEWOO/FIAT/LANCIA	54
60112	RENAULT	55
60113	ALFA ROMEO	55
60114	FIAT/LANCIA	55
60115	TOYOTA	55
60116	AUDI/SEAT/VOLKSWAGEN	55
60117	AUDI/SEAT/SKODA/VOLKSWAGEN	55
60118	AUDI/SEAT/SKODA/VOLKSWAGEN	56
60119	VOLKSWAGEN	56
60125	AUDI/SEAT/SKODA/VOLKSWAGEN	56
60126	AUDI/SEAT/SKODA/VOLKSWAGEN	56
60127	SKODA/VOLKSWAGEN	56
60128	AUDI/VOLKSWAGEN	56
60129	AUDI/SEAT/VOLKSWAGEN	57
60130	DAEWOO/OPEL	57
60132	CHEVROLET/DAEWOO/OPEL	57
60134	CITROËN/PEUGEOT	57
60136	FIAT/LANCIA	57
60138	SEAT/VOLKSWAGEN	57
60139	AUDI/SEAT/SKODA/VOLKSWAGEN	58
60140	OPEL/SAAB	58
60141	OPEL	58
60143	AUDI/SEAT/SKODA/VOLKSWAGEN	58
60145	OPEL	58

REF.FAE	MARCAS	PÁGS.
60149	VOLKSWAGEN	58
60154	INFINITI/NISSAN/RENAULT	59
60156	FIAT/LANCIA	59
60158	MERCEDES BENZ/MAYBACH/PUCH	59
60159	CITROËN/PEUGEOT/MERCEDES BENZ	59
60160	AUDI/FORD/SEAT/SKODA/PORSCHE/VOLKSWAGEN	59
60161	ALFA ROMEO/CITROËN/DAEWOO/FIAT/LANCIA/OPEL	59
60163	AUDI/SEAT/SKODA/VOLKSWAGEN	60
60168	AUDI/SEAT/SKODA/VOLKSWAGEN	60
60170	AUDI	60
60174	AUDI	60
60183	AUDI	60
60185	VOLKSWAGEN	60
60187	VOLKSWAGEN	61
60190	AUDI/SEAT/PORSCHE/VOLKSWAGEN	61
60191	PORSCHE	61
79079	AUSTIN/LAND ROVER/ROVER	82
79080	ROVER	82
79081	ROVER	83
79105	ALFA ROMEO/FIAT/LANCIA	86
79106	ALFA ROMEO/FIAT/LANCIA/OPEL/SAAB/SUZUKI	86
79107	ALFA ROMEO	87
79108	FIAT/LANCIA	87
79109	FIAT/LANCIA	87
79112	AUDI/SEAT/SKODA/VOLKSWAGEN	87
79167	OPEL/VAUXHALL	95
79168	OPEL	95
79218	DAEWOO	103
79221	BMW	103
79222	FIAT/VECO	104
79227	ALFA ROMEO/LANCIA	104
79228	MERCEDES BENZ/PORSCHE/PUCH	104
79231	AUDI/PORSCHE/SEAT/SKODA/VOLKSWAGEN	105
79239	OPEL	105
79240	FORD/MAZDA	105
79241	MERCEDES BENZ	106
79242	MERCEDES BENZ	106
79243	MERCEDES BENZ	106
79244	BMW	106
79245	BMW	106
79246	FORD	106
79247	FORD/LAND ROVER	107
79248	FORD/MAZDA	107
79250	RENAULT	107
79251	DACIA/NISSAN/RENAULT	107
79252	NISSAN/RENAULT	107
79253	NISSAN/OPEL/RENAULT	108
79254	NISSAN/RENAULT	108
79256	ALFA ROMEO/FIAT/LANCIA	108
79257	CITROËN/PEUGEOT	108
79258	LAND ROVER/MG	108
79260	RENAULT/VOLVO	109
79261	AUDI/SEAT/SKODA/VOLKSWAGEN	109
79262	AUDI	109
79280	VOLVO	109
79281	FIAT/RENAULT	109
79283	TOYOTA	109
79284	LEXUS/TOYOTA	110
79285	TOYOTA	110
79286	TOYOTA	110
79287	BMW/CITROËN/MINI/PEUGEOT	110
79288	CITROËN/FORD/PEUGEOT/MINI/MITSUBISHI/PEUGEOT	110
79289	FORD/LANCIA/PEUGEOT/VOLVO	110
79290	OPEL/FIAT/PEUGEOT	111
79292	AUDI/SEAT/SKODA/VOLKSWAGEN	111
79293	AUDI/SEAT/SKODA/VOLKSWAGEN	111
79294	AUDI/SKODA/VOLKSWAGEN	111
79295	FIAT	111
79296	FIAT	111
79297	AUDI/LANCIA	112
79301	HYUNDAI	112
79302	KIA	112
79303	HYUNDAI/KIA	112



... Units on each vehicle
... From to -> / -> ... Up to
16 Valves
2 Pin
2 wheels drive
24 Valves
4, 5, 6 Speeds
4 Wheel drive
Across flats dimension of Hexagonal
Advices engine over-heating
After the catalytic converter
Air conditioning
Air Sensor
All models
Also for oil temperature
Alternative
Ampere
Antipollution
Antipollution Standards
Automatic
Autoradio
Before the catalytic converter
Before the catalytic converter. Left side
Before the catalytic converter. Right side
Bimetallic temperature contacts
Black colour
Blue colour
Body glow plug length in mm.
Body thread
Box
Brown colour
Bulb Holders
Bus
Carburettor
Case/body ground
Cat. version
Chassis
Check Control
Colour
Combined circuits
Combustible connection thread
Commercial
Conical
Connection
Connectors
Consultation Guide
Continued
Cooling-water preheater
Convertible
Coupe
Cross references
Cubic centimetres
Cylinders
Cylindrical
Diameter
Dimensions and values
Distributor cap
Distributor OEM ...
Divers switches
Double overhead camshaft
East Europe
Eastern Europe
Electric Injection
Electrical connection diameter
Electrical connection Faston
Electrical connection length in mm.
Electrical connection screw
Electrical connection thread
Electrical scheme
Electrical connection exact fit torque (Nm)
Engine
Engine assembly length in mm.
Engine installation exact fit torque (Nm)

... Piezas en cada vehículo
Desde...-> / ->...Hasta
16 Válvulas
2 Bornes
2 Ruedas motrices
24 Válvulas
4, 5, 6 Marchas
4 Ruedas motrices
Medidas entre caras del exagonal
Indica recalentamiento del motor
Después del catalizador
Aire acondicionado
Sensor aire
Todos los modelos
También para temperatura de aceite
Alternativa
Amperio
Antipolución
Norma antipolución
Automático
Autoradio
Antes del catalizador
Antes del catalizador. Lado izquierdo
Antes del catalizador. Lado derecho
Termocontactos temperatura
Color negro
Color azul
Longitud cuerpo del calentador en mm.
Rosca del cuerpo
Furgón
Color marrón
Portalámparas
Autobús
Carburador
Con masa chasis
Con catalizador
Chasis
Tabla de controles
Color
Circuitos combinados
Rosca del conector de combustible
Comercial
Cónica
Conexión
Conectores
Guía de consulta
Continuación / Sigue
Calentamiento previo del agua refrigerante
Descapotable
Coupé
Cruce de referencias
Centímetros cúbicos
Cilindros
Cilíndrica
Diámetro
Dimensiones y valores
Tapa de distribuidor
Distribuidor OEM ...
Interruptores varios
Doble árbol de levas
Europa del Este
Europa Oriental
Inyección electrónica
Diámetro del conector eléctrico
Conector eléctrico Faston
Longitud del conector eléctrico en mm.
Conector eléctrico tornillo
Rosca del conector eléctrico
Esquema eléctrico
Par de apriete conexión eléctrica (Nm)
Motor
Longitud montaje motor en mm.
Par de apriete montaje en el motor (Nm)

... Pièces par véhicule
... Depuis -> / ->...Jusqu'à
16 Soupapes
2 Bornes
2 roues motrices
24 Soupapes
4, 5, 6 vitesses
Traction 4 Roues
Dimension écrou 6 pans
Il indique rechauffage de le moteur
Après le pot catalytique
Air conditionné / climatisation
Senseur d'air
Tous les modèles
Aussi pour température d'huile
Alternative
Ampère
Antipollution
Norme Antipollution
Automatique
Autoradio
Davant le pot catalytique
Avant le catalyseur. Côté gauche
Avant le catalyseur. Côté droit
Thermocontacts température
Couleur noire
Couleur bleue
Longueur du corps bougie de préchauffage en mm.
Dimension filetage
Camionnette
Couleur brune
Douilles
Autobus
Carburateur
Masse au chasis
Avec catalyseur
Chassis
Tableau de contrôle
Couleur
Circuits combinés
Fixation pour connection combustible
Commercial
Conique
Connexion
Connecteurs
Guide à la consultation
Continuation / Suite
Pour préchauffage de l'eau rafraîchissement
Décapotable
Coupé
Tableau des equivalences
Centimètres cube
Cylindres
Cylindrique
Diametre
Dimensions et valeurs
Tete d'allumeur
Distributeur OEM ...
Interrupteurs divers
Arbre double à cames en tête
Europe de l' Est
L'Europe orientale
Injection électronique
Diametre por connection électrique
Conexion électrique Faston
Longeur de la connection électrique en mm.
Connection électrique vis
Fixation pour connection électrique
Schema électrique
Couple de serrage connection électrique (Nm)
Moteur
Longeur montage du moteur en mm.
Couple de serrage pour montage sur moteur (Nm)



Equipment for hot climate
Estate
Ex. Emission control ...
Examples
Except
Exhaust gas recirculation valve
Export
Fitted on automatic gear
Fitted on cylinder head
Fitted on engine
Fitted on radiator
Fitted on the automatic gear
Fitted on the gear box
Fitted on the left side
Fitted on the right side
Fitted to engine
Fitted to thermostat
Flame glow plug lenght in mm.
Flatbed / Chassis
For ...
For automatic gear
For cars with exhaust gas depurator
For deletion of air conditioning parts
For digital diesel electronic
For exhaust gas recirculation
For headlamps, Automatic on-off
For hot climate modifications
For hot climate package
For ignition kit electronic ...
For leaded fuel modifications
For low level emission
For vehicles whitout catalytic converter
Front
Front exhaust pipe
Fuel consumption
Fuse-holders
Gauges
Glossary
Glow plugs
Glow plugs cooling
Green colour
Green plug
Green ring
Grey colour
Hatchback
Heater
Heating element diameter
Heating element length in mm.
Heating time
Heating voltage
High temperature
Hight efficiency twin cam
Hot countries
HP
Ignition coil
Index of references
Index of makers
Indicator lamps
Information
Injection
Introduction
Isolated ground
Kits
On cat. Intache side
Larger capacity water radiator
Leaded fuel
Left hand drive (L.H.D.)
Legth
Lever
Lodge
Low Temperature
Maker
Manual gear

Equipo para clima cálido
Familiar
Control de emisión de gas de escape
Ejemplos
Excepto
Válvula de circulación del gas de escape
Exportación
Montado en el cambio automático
Montado sobre la culata
Sobre bloque motor
Montado en el radiador
Montado en el cambio automático
Montado sobre el cambio
Montado en el lado izquierdo
Montado en el lado derecho
Montado sobre el motor
Montado sobre el termostato
Longitud total del calentador de llama en mm.
Camión caja / Chasis
Para ...
Para cambio automático
Para coches con purgador de gases de escape
Para aplicaciones sin componentes para A.A.
Para electrónica diesel digital
Para circulación del gas de escape
Para encendido automático de los faros
Para adaptaciones al clima cálido
Equipo para clima cálido
Para kit de encendido electrónico ...
Para modificaciones para gasolina con plomo
Para bajas emisiones
Para vehículos sin catalizador
Frontal
Colector de gas de escape frontal
Consumo de combustible
Porta-fusibles
Indicadores
Glosario
Calentadores
Para refrigerante de bujías precalentamiento
Color verde
Enchufe verde
Anillo verde
Color gris
Fastback
Calentador
Diámetro del elemento calefactor
Longitud del elemento calefactor en mm.
Tiempo de calentamiento
Tensión de calentamiento
Alta temperatura
Doble arbol de levas con prestación elevada
Países cálidos
CV
Bobina de encendido
Índice de referencias
Índice de fabricantes
Luces de control
Información
Inyección
Introducción
Aislado masa
Kits
Lado entrada gases en catalizador
Radiador del agua con capacidad aumentada
Gasolina con plomo
Conducción a la izquierda
Longitudes
Palanca
Alojamiento
Baja temperatura
Fabricante
Cambio de marchas manual

Équipement pour climat chaud
Break
Contrôle d'emission des gas d'échappement ...
Exemples
Sauf
Soupape de recirculation des gas d'échappement
Export
Monté sur BV automatique
Monté sur le bout
Sur bloc de cylindre
Monté dans le radiateur
Monté sur BV automatique
Monté en boîte de vitesses
Monté dans le côté gauche
Monté dans le côté droit
Monté sur le moteur
Monté sur le thermostat
Longeur totale de la bougie à flamme en mm.
Camion plate-forme / Châssis
Pour ...
Pour BV automatique
Pour voitures avec purgeur gaz diéchappement
Pour applications sans pièces pour le A.C.
Pour électronique diesel digitale
Pour recirculation des gas d'échappement
Pour l'allumage automatique des phares
Pour adaptions au climat chaud
Équipement pour climat chaud
Pour kit d'allumage elettronique ...
Sauf modifications pour essence avec plomb
Pour basses émissions
Pour véhicules sans pot catalytique
Frontale
Collecteur d'échappement frontale
Consommation de carburant
Porte-fusibles
Indicateurs
Glossaire
Bougies de préchauffage
Rafraîchissement pour bougies de préchauffage
Couleur Verte
Fiche verte
Anneau vert
Couleur gris
Fastback
Rechauffeur
Diametre élément chauffant
Longeur élément chauffant en mm.
Durée de chauffage
Tension de chauffage
Haute température
Double arbre à cames à haute performance
Pays chauds
CV
Bobine d'allumage
Index des références
Index des constructeurs
Lampes temoin
Informations
Injection
Introduction
Isolé au masse
Kits
Côté entrée gaz dans le cat.
Radiateur de l'eau avec contenance grandie
Essence avec plomb
Conduire à gauche
Longueurs
Levier
Logement
Température basse
Constructeur
Boite vitesse manuelle



Mechanical petrol pump
Model
Montado en la boca de salida del agua
MPV
Multi-point Injection
New series
Normally closed
Normally open
Not available
Nr of wires
Nut
Off road
Oil pressure switches and transmitters
On brake pedal
On Cat. Intache side
On Eng. Outlet side
On head cylinder Without air conditioning
Only
Only with the cooling ...
On the exhaust manifold
Optional
Outside lenght in mm.
Pannel switches
Parking and/or neutral
Petrol.
Pick-up
Power Brake
Press buttons
Protection against fuel with lead
Radio set
Rear
Rear exhaust pipe
Red colour
Red ring
Relay, preheating time
Replaces
Reversing light switches
Revolution and timing sensors
Right hand drive (R.H.D.)
Saloon
See
See also
Sensor
Sensor For automatic gear
Single-point Injection
Specific Oxygen Sensors
Speed control Inhibitor
Speed control switch
Speeds
Station Wagon
Stop light switches
Suitable
Supressor cables
Symbols
Technical Information
Temperature transmitters, sensors
Terminals
Thread
Thread and connector
Thread and lodge
Titania
Traction control system
Tractor
Truck
Two functions
Two speeds fan
Type
Universal oxygen sensors
Unleaded fuel
V-6 Cylinders
Van
Variable resistance
Various

Bomba de mecánica gasolina
Modelos
Montado en la boca de salida del agua
Monovolúmen / Limusina
Inyección Multipunto
Nuevas series
Normalmente cerrado
Normalmente abierto
No disponible
Número de cables
Interior
Todo terreno
Manocontactos y transmisores de aceite
En el pedal de freno
Lado entrada gases en el Cat.
Lado emisión gases del motor
Sobre culata sin climatizador
Solo
Sólo con el refrigerante ...
En el colector de escape
Opcional
Longitud exterior en mm.
Interruptores tablero
Posición de aparcamiento y/o neutral
Gasolina
Camioneta
Servo Freno
Pulsadores
Potección contra gasolina con plomo
Aparato de radio
Trasera
Colector de gas de escape posterior
Color rojo
Aro rojo
Relay, tiempo de precalentamiento
Reemplaza
Interruptores de luz marcha atrás
Captadores de impulsos
Conducción a la derecha
Sedan
Ver
Ver también
Sensor
Sensor para cambio automático
Inyección Monopunto
Sondas Lambda específicas
Inhibidor del control de velocidad
Interruptor de control velocidad
Velocidades
Familiar / Ranchera
Interruptores luz stop
Reemplaza
Cables antiparasitarios
Símbolos
Información técnica
Termo-resistencias, termo contactos, sensores
Terminales
Fijación
Fijación y conector
Fijación y rosca
Titanio
Sistema de control de tracción
Tractor
Camión
Dos funciones
Ventilador de dos velocidades
Tipo
Sondas Lambda universales
Gasolina sin plomo
6 Cilindros en V
Furgoneta
Resistencia variable
Varios

Bombe mécanique d'essence
Modèles
Monté dans la bouche de sortie de l'eau
Monospace
Injection Multipoint
Nouvelles séries
Normalement fermé
Normalement ouvert
Non disponible
N° de câbles
Intérieur
Tout terrain
Manocontacts et transm. pression d'huile
Dans la pédale de frein
Côté entrée gaz dans le Cat.
Côté émission gaz du moteur
Sobre Culata Sans climatisation
Seulement
Seulement avec le rafraîchissement ...
Sur le collecteur d'échappement
Optionel
Longeur extérieur en mm.
Interrupteurs tableau
Position de statinnement et/ou neutre
Essence
Canionette
Servo freins
Poussoirs
Potection contre essence avec plomb
Poste radio
En arrière
Collecteur d'échappement postérieur
Couleur rouge
Anneau rouge
Relais, temps de préchauffage
Remplace
Contacteurs de phare de recul
Capteurs du regime et des positions
Conduction à droite
À trois volumes
Voir
Voir aussi
Sensor
Sensor pour changement automatique
Injection Monopoinr
Sondes Lambda spécifiques
Inhibiteur du contrôle de vitesse
Commutateur de contrôle de vitesse
Vitesses
Break
Contacteursde feu stop
Remplace
Fils de bougie antiparasitaires
Symboles
Information technique
Thermistances, thermocontacts, senseurs
Bornes
Fixation
Fixation et connecteur
Fixation et filet
Titane
Système de contrôle de traction
Tracteur
Camion
Deux fonctionnes
Ventilateur de deux vitesses
Typ
Sondes Lambda universelles
Essence sans plomb
6 Cylindres en V
Fourgonettes
Resistance variable
Divers



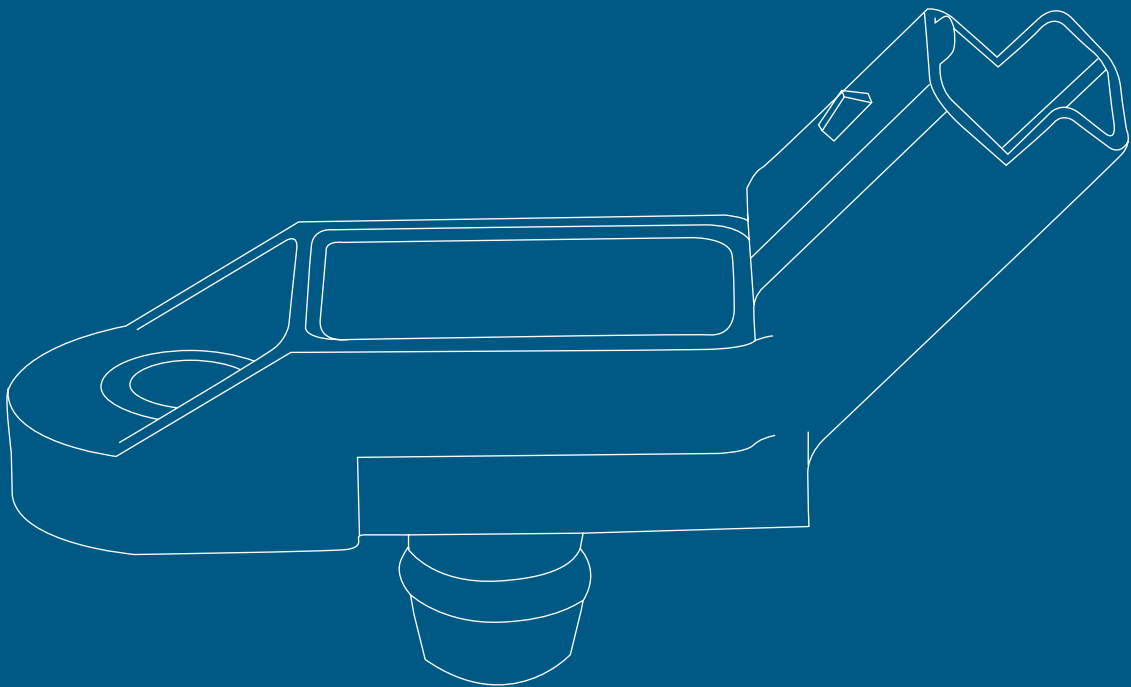
Various engines
Various models
Vehicle applications
Violet colour
Violet ring
Volts
Water proof type
White colour
Whitout air Conditioning
Wire
With
With air conditioning
With automatic gear
With catalytic converter
With check control
With cruise control
With electronic carburettor
With electronic key
With manual gear
With power brake
With power steering
With radio control on steering wheel
With revolution counter
With rodent protection
With screen
With special equipment
With tachometer
With trailer equipment
Without
Without air conditioning
Without cables
Without catalytic converter
Without check control
Without connexion cable
Without cruise control
Without oil cooler
Without power brake
Without radio control on steering wheel
Without rodent protection
Without screen
Without speed gear shift indicator
Wrench
Year
Yellow colour
Yellow ring
Zirconia

Diversos motores
Diversos modelos
Aplicaciones por vehículos
Color violeta
Anillo violeta
Voltios
Resistencia al agua
Color blanco
Sin climatizador
Cable
Con
Con aire acondicionado
Cambio automático
Con catalizador
Con tabla de controles
Con mando automático de velocidad viaje
Con carburador electrónico
Con llave electrónica
Con cambio de marchas manual
Con servo freno
Con servo-dirección
Con mandos radio en el volante
Con cuenta-revolución
Con protección anti-roedores
Con cobertura
Con equipo especial
Con cuenta revoluciones
Con enganche de remolque
Sin
Sin climatizador
Sin cables
Sin catalizador
Sin tabla de controles
Sin conexión cable
Sin control velocidad de viaje
Sin radiador de aceite
Sin servo freno
Sin mandos, radio en el volante
Sin protección anti-roedores
Sin cobertura
Sin indicador de cambio de marcha
Llave
Año
Color amarillo
Aro amarillo
Circonio

Divers moteurs
Divers modèles
Application pour véhicules
Couleur violette
Anneau violette
Volts
Résistante à l'eau
Couleur blanche
Sans climatisation
Fil
Avec
Avec climatisation
Avec boîte vitesse automatique
Avec catalyseur
Avec table de commandes
Avec contrôle automatique de vitesse de voyage
Avec carburateur électronique
Avec chef électronique
avec changement de vitesses manuel
Avec dispositif d'assistance de freins
Avec direction assistée
Avec des commandes d'émission dans le volant
Avec compte révolution
Avec protection antirougeurs
Avec couverture
Avec équipement spéciale
Avec compte-tours
Avec accroc de remorquage
Sans
Sans climatisation
Sans câbles
Sans pot catalytique
Sans table de commandes
Sans connexion câble
Sans contrôle de vitesse de voyage
Sans radiateur d'huile
Sans servo frein
Sans commande de la radio sur le volant
Sans protection antirougeurs
Sans couverture
Sans indicateur changement de vitesse
Clé
Aneé
Couleur jaune
Anneau jaune
Zirconium



(A)	AUSTRIA	AUSTRIA	AUTRICHE
(ARG)	ARGENTINA	ARGENTINE	ARGENTINE
(AUS)	AUSTRALIA	AUSTRALIA	AUSTRALIE
(BR)	BRASIL	BRAZIL	BRESIL
(CH)	SUIZA	SWITZERLAND	SUISSE
(CHINA)	CHINA	CHINA	CHINE
(CND)	CANADÁ	CANADA	CANADA
(CS)	REPÚBLICA CHECA	CZECH REPUBLIC	RÉPUBLIQUE TCHÈQUE
(D)	ALEMANIA	GERMANY	ALLEMAGNE
(E)	ESPAÑA	SPAIN	ESPAGNE
(EU)	EUROPA	EUROPE	EUROPE
(F)	FRANCIA	FRANCE	FRANCE
(GB)	GRAN BRETAÑA	GREAT BRITAIN	GRANDE BRETAGNE
(GR)	GRECIA	GREECE	GRÈCE
(I)	ITALIA	ITALY	ITALIE
(IND)	INDIA	INDIA	INDE
(J)	JAPON	JAPAN	JAPON
(PL)	POLONIA	POLAND	POLOGNE
(RUS)	RUSIA	RUSSIA	RUSSIE
(S)	SUECIA	SWEDEN	SUÈDE
(TR)	TURQUIA	TURKEY	TURQUIE
(USA)	USA	USA	USA
(ZA)	SUDAFRICA	SOUTH AFRICA	AFRIQUE DU SUD
---	No disponible	Not available	Non disponible
... ->	Desde ...->	From to ...->	Depuis ... ->
-> ...	->... Hasta	-> ... Up to	->... Jusqu'à
-> N°	Hasta el número	Up to number	Jusqu'à numéro
N° ->	Desde el número	From to number	Depuis numéro
-> Ch. ->	Desde/Hasta Chasis	Up/From Chassis	Jusqu'à/Depuis Chassis
A.	Amperio	Ampere	Ampère
A.A	Aire acondicionado	Air conditioning	Air conditionné / climatisation
Adatt. Universal	Adaptable a Universal	Suitable to Universal	Remplace á Universelle
After the catalytic converter	Después del catalizador	After the catalytic converter	Après le catalyseur
Antipollution Standars	Norma antipolución	Antipollution Standars	Norme antipollution
Bus	Autobús	Bus	Autobus
Before catalytic converter	Antes del catalizador	Before catalytic converter	Depuis le catalyseur
Camión/Truck	Camión	Truck	Camion
Check Control	Tabla de controles	Check Control	Tableau de contrôle
Cil.	Cilindros	Cylinders	Cylindres
Com.	Comercial	Commercial	Commercial
Con/With	Con	With	Avec
Cont.	Continuación	Continued	Continuation / Suite
East Europe	Europa Este	East Europe	Europe de l'Est
Except.	Excepto	Except	Sauf
Fitted on the right side	Montado a la derecha	Fitted on the right side	Monté à droite
Fitted on the left side	Montado a la izquierda	Fitted on the left side	Monté à gauche
Front	Frontal	Front	Frontale
Front exhaust pipe	Tubo de escape delantero	Front exhaust pipe	Tube d'échappement Avant
i.e.	Inyección electrónica	Electronic Injection	Injection électronique
Leaded fuel	Gasolina con plomo	Leaded fuel	Essence avec plomb
L.H.D.	Conducción a la izquierda	Left hand drive	Conduire à gauche
Monopoint	Inyección Monopunto	Single-point Injection	Injection Monopoint
Motor	Motor	Engine	Moteur
Multipoint	Inyección Multipunto	Multi-point Injection	Injection Multipoint
On the exhaust manifold	En el colector de escape	On the exhaust manifold	Sur le collecteur d'échappemenet
Rear	Posterior	Rear	Postérieur
Replaces	Reemplaza	Replaces	Remplace
R.H.D.	Conducción a la derecha	Right hand drive	Conduire à droite
See	Ver	See	Voir
See also	Ver también	See also	Voir aussi
Sin/Without	Sin	Without	Sans
Solo/Only	Solo	Only	Seulement
Ti	Titanio	Titania	Titane
Unleaded fuel	Gasolina sin plomo	Unleaded fuel	Essence sans plomb
V.	Voltios	Volts	Volts
With air conditioning	Con aire acondicionado	With air conditioning	Avec climatisation
With automatic gear	Cambio automático	With automatic gear	Avec boîte vitesse automatique
With electronic key	Con llave electrónica	With electronic key	Avec clé électronique
With manual gear	Con cambio manual	With manual gear	Avec boîte vitesse manuelle
Without catalytic converter	Sin catalizador	Without catalytic converter	Sans catalyseur
Zr	Circonio	Zirconio	Zirconium
4WD	4 Ruedas motrices	4 Wheel drive	Traction 4 roues



SENSORES DE PRESIÓN ABSOLUTA (MAP)
MANIFOLD ABSOLUTE PRESSURE SENSORS (MAP)
CAPTEURS DE PRESSION (MAP)



INFORMACIÓN TÉCNICA

SENSORES DE PRESIÓN ABSOLUTA

El MAP (Manifold Absolute Pressure), sensor de presión absoluta de la admisión, es el sensor que detecta la presión de aire en la admisión del vehículo y la convierte en una señal eléctrica que se envía a la centralita para poder regular la mezcla estequiométrica.

Los sensores MAP se clasifican, según su rango de presión, en 2 grupos:

- De depresión: $10 \div 130$ kPa.
- De sobre-presión: $10 \div 130$ kPa $\leq P_2 \leq 400$ kPa.



Algunos modelos incorporan un sensor de temperatura tipo NTC que permite que el MAP detecte, no sólo la presión, si no también la temperatura del aire en la admisión. Este dato es necesario para que la centralita pueda calcular la masa de aire aspirado y así poder regular la mezcla aire-combustible.

El MAP sensor se ubica directamente en el colector de admisión o se conecta al mismo a través de un tubo flexible.

Los MAP deben funcionar en condiciones críticas de montaje y deben ser capaces de funcionar a temperaturas entre -40 °C y $+120$ °C y ser, además, resistentes a los hidrocarburos. Para que esto sea posible FAE somete sus sensores MAP a exhaustivos ensayos de homologación que contemplan:

- Funcionamiento cíclico a alta y baja presión en condiciones ambientales extremas.
- Resistencia a las vibraciones y a los golpes.
- Funcionamiento de sobre-presión a baja y alta temperatura.
- Resistencia a la humedad y temperatura.
- Choque térmico $-40 \div 150$ °C

Todos nuestros sensores son sometidos durante su montaje a ensayos de estanqueidad y a comprobaciones de la tensión de salida.

ELEMENTO SENSOR

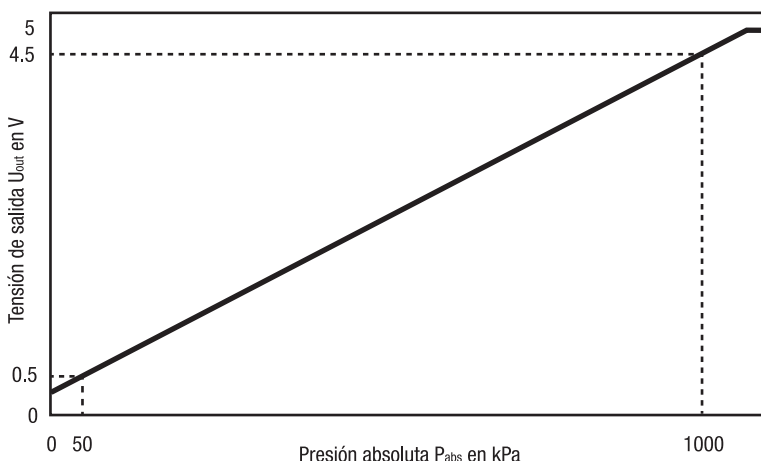
El elemento sensor de los MAP es de tipo piezoresistivo con una configuración de puente de wheatstone, es decir, que varía su resistencia eléctrica según la deformación mecánica de una membrana.

El elemento sensor está integrado en un DIE de tipo MEMS que amplifica, compensa térmicamente y acondiciona la señal. La electrónica digital que incorpora nos permite programar la señal de salida entre $0 \div 5$ V, dependiendo de los requerimientos que necesitemos en cada referencia. El DIE va montado sobre un circuito cerámico y sus conexiones eléctricas se realizan mediante bonding. Todo esto va protegido con un receptáculo y un gel de silicona. El circuito electrónico se realiza utilizando tecnología híbrida y se manipula en sala blanca debido a su naturaleza delicada.

La salida de los MAP es una relación lineal entre la presión de aspiración y la tensión de salida que se corresponde a la siguiente ecuación:

$$V_{out} = S \cdot P + Of$$

donde: V_{out} : Tensión de salida (V)
 S: Sensibilidad
 P: presión del aire de aspiración (kPa)
 Of: Offset



Datos técnicos

- La tensión de alimentación..... $5 \text{ V} \pm 0.5 \text{ V}$
- Rango de temperatura..... -20 a 120 °C *
- Temperaturas máximas y mínimas..... -40 a 140 °C
- El tiempo de respuesta del sensor ($t_{10/90}$)..... 1.5 ms.
- La presión máxima..... 700 kPa **

* (dentro de tolerancias)

** (30 °C durante 5 s)

Todos estos datos son comunes para todos los Map sensor FAE, cada referencia específica tiene su curva de funcionamiento y sus tolerancias específicas.

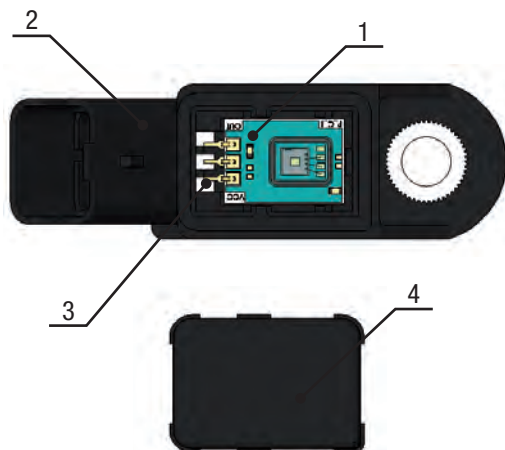


INFORMACIÓN TÉCNICA

ELEMENTOS DE CONSTRUCCIÓN

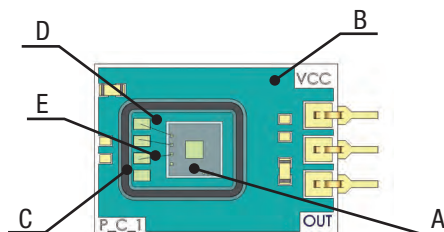
El MAP se compone de las siguientes partes:

- 1-Elemento sensor: compuesto por el circuito electrónico montado sobre una placa cerámica.
- 2-Cuerpo: generalmente de PBT+30FV, es el continente del circuito y los terminales. Normalmente es donde se ubica la entrada de aire al sensor (5).
- 3-Terminales: a los cuales se suelda el circuito mediante soldadura convencional con estaño.
- 4-Tapa: que puede tener en alguna ocasión la entrada de aire al sensor (5).



En el elemento sensor encontramos:

- A-Circuito electrónico.
- B-Placa cerámica.
- C-Protector del Die.
- D-Gel de silicona (que protege el circuito electrónico).
- E-Bonding



INSTRUCCIONES DE MONTAJE

Los pasos a seguir para cambiar el map sensor son los siguientes:

- Localizar el map sensor en el vehículo (montado sobre el colector de admisión o fijado cerca del mismo)
- Desconectar el tubo de vacío
- Desconectar el conector del map sensor
- Sacar los tornillos de fijación o el sistema de anclaje que lleve.
- Instalar el nuevo sensor y fijarlo
- Conectar el tubo de vacío

INSPECCIÓN VISUAL / CAUSA DE FALLOS

Debe verificarse el cuerpo sensor, el conector y el cable asegurándose de su buen estado. Compruébese también si el cuerpo del sensor muestra alguna grieta, abolladura o golpe que pudiera haberlo dañado.

Hay que tener en cuenta que, como norma general, una inspección visual no es suficiente para poder asegurar el buen o mal funcionamiento del sensor, pero ayuda a realizar un primer diagnóstico.

Las causas de fallo pueden ser:

- Un deterioro en los tubos de vacío.
- Un deterioro en los cables de conexión o en el conector.
- Un deterioro de elemento sensor con lo cual una mala lectura de la presión.
- Un problema de fugas en el map sensor.

Los posibles efectos de un mal funcionamiento del map sensor son:

- Encendido del testigo de luz Check Engine.
- Dificultad en el arranque.
- Baja potencia o aumento del consumo de combustible.
- Emisión de humo negro debido al atraso de chispa o demasiado tiempo de inyección.
- Detonación debido a un avance excesivo.



TECHNICAL INFORMATION

MAP SENSOR

The MAP (Manifold Absolute Pressure) sensor, absolute pressure of admission, detects the air pressure at the inlet of the vehicle and turns it into an electrical signal which is sent to the engine's electronic control unit (ECU) in order to regulate the stoichiometric mixture.

The MAP sensors are classified in 2 groups according to their pressure range:

Depression: $10 \div 130$ kPa.

Over-pressure: $10 \div 130$ kPa $\leq$ P2 $\geq$ 400 kPa.



Some models do have a NTC type temperature sensor that allows the MAP to detect, not only the pressure, but also the air temperature at the inlet. This information is necessary for the ECU to calculate the mass of intake air in order to be able to adjust the air-fuel mixture.

The MAP sensor is located directly on the intake manifold or connected to it through a flexible tube.

The MAP sensor must withstand critical installation conditions and should be capable to operate at temperatures between -40°C to $+120^{\circ}\text{C}$. Furthermore it has to be resistant to hydrocarbons. To make this possible FAE submits their MAP sensors to exhaustive homologation tests which include:

- High and low pressure cyclic operation in extreme environmental conditions.
- Resistance to vibrations and mechanical shocks.
- Over-pressure operation at low and high temperatures.
- Resistance to moisture and temperature.
- Thermal shock $-40 \div 150^{\circ}\text{C}$

All FAE sensors are submitted during the assembly to leakage tests and output voltage verifications.

SENSOR ELEMENT

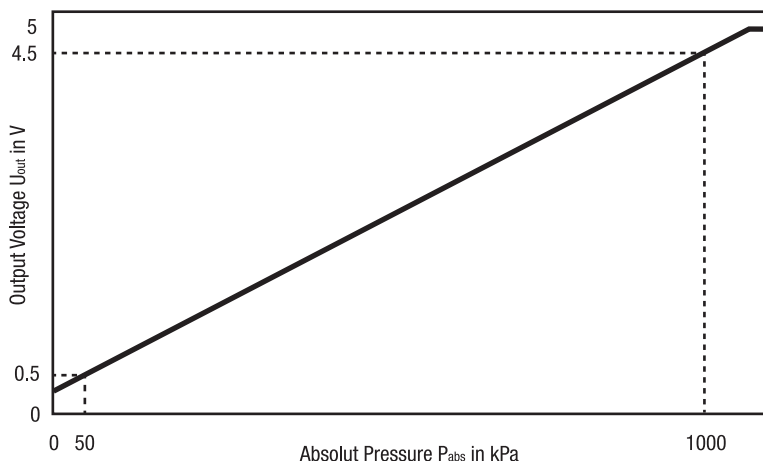
The sensor element of the MAP is a piezoresistive type configured as a wheatstone bridge, i.e., its electrical resistance varies according to the mechanical deformation of a membrane.

The sensor element is integrated in a MEMS-type DIE which amplifies, performs a thermal compensation and conditions the signal. The incorporated digital electronics allow us to program the output signal between $0 \div 5$ V, depending on the requirements we need in each reference. The DIE is mounted on a ceramic circuit and its electrical connections are made by bonding. All this is protected with a receptacle and a silicone gel. The electronic circuit is achieved through hybrid technology and is handled in a clean room due to its sensitive nature.

The output of the MAP is a linear relationship between the air pressure sucked in and the output voltage which corresponds to the following equation:

$$V_{out} = S \cdot P + Of$$

where: V_{out} : Output voltage (V)
 S: Sensitivity
 P: Pressure of the air drawn in (kPa)
 Of: Offset



Technical Data

- Supply voltage..... $5\text{ V} \pm 0.5\text{ V}$
- Temperature range -20 to 120°C *
- Maximum and minimum temperatures..... -40 to 140°C
- The sensor response time ($t_{10/90}$) 1.5 ms .
- The maximum pressure 700 kPa **

*(within tolerances)

**(30°C for 5s)

All these data are common to all Map sensors, each specific reference has its own performance curve and specific tolerances.

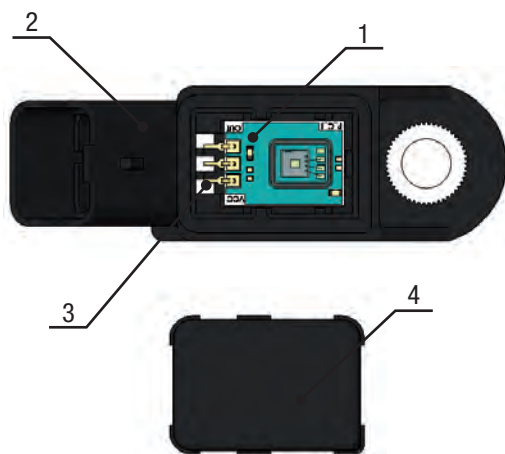


TECHNICAL INFORMATION

CONSTRUCTION ELEMENTS

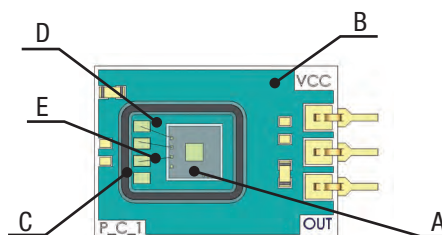
The MAP sensor is composed of the following parts:

- 1-Sensor element, consists in the electronic circuit mounted on a ceramic board.
- 2-Housing: generally PBT +30 FV, contains the electronic circuit and the terminals. Usually the entrance of the air into the sensor is located here. (5).
- 3-Terminals, to which is soldered the circuit by conventional tin soldering.
- 4-Lid: can have on some occasion's the entrance of the air into the sensor (5).



The sensor element contains:

- A-Electronic circuit.
- B-Ceramic board.
- C-Protector of the DIE.
- D-Silicone gel (which protects the electronic circuit).
- E-Electrical bonding



ASSEMBLY INSTRUCTIONS

The steps to follow when changing a MAP sensor are:

- Locate the MAP sensor on the vehicle (mounted on the intake manifold or fitted nearby)
- Disconnect the vacuum tube
- Disconnect the connector of the MAP sensor.
- Remove the fitting screws or the anchoring system.
- Install the new sensor and fix it
- Connect the vacuum tube

VISUAL INSPECTION / CAUSES OF FAILURE

Verify the body of the sensor, the wire and the connector ensuring their good condition. Furthermore check also if the body of the sensor shows any cracks, dents or impact that might have damaged it.

Keep in mind that, as a general rule, visual inspection is not sufficient to ensure the good or bad performance of the part, but it helps to make an initial diagnosis.

The causes of failure can be:

- Damaged vacuum tubes.
- Damaged wires or connector.
- Damaged sensor element which results in pressure misreading.
- Leakage problem in the MAP sensor.

The possible effects of a malfunctioning MAP sensor are:

- Switching on of the warning light "Check Engine".
- Difficulties starting the engine.
- Low power or increased fuel consumption.
- Emission of black smoke due to spark delay or too long injection.
- Detonation due to an excessive progress.

INFORMATION TECHNIQUE

MAP SENSOR

Le MAP (Manifold Absolute Pressure), capteur de pression absolue de l'admission, est le capteur qui détecte la pression d'air dans l'admission d'échappement du véhicule. Il transmet un signal électrique qui est envoyé au calculateur pour pouvoir régler le mélange stœchiométrique.

Les capteurs MAP se classent, selon leur rang de pression en 2 groupes:

Dépression: 10÷130 kPa.

Surpression: 10÷130 kPa = P2 = 400 kPa.



Quelques modèles intègrent des thermistances du type NTC qui permet au capteur MAP de détecter, non seulement la pression, mais aussi la température de l'air d'admission. Cette donnée est nécessaire pour que le calculateur puisse mesurer la masse d'air aspiré de manière à réguler le mélange air - combustible.

Le MAP sensor se trouve directement dans le collecteur d'admission ou se connecte à ce dernier à l'aide d'un tube flexible.

Les MAP doivent fonctionner dans des conditions critiques et doivent être capables de fonctionner à des températures comprises entre -40 °C et +120 °C. De plus ils doivent être résistants aux hydrocarbures. Pour que ce soit possible, FAE soumet ses capteurs MAP à des essais exhaustifs d'homologation:

- Le Fonctionnement cyclique sous une haute et basse pression dans des conditions environnementales extrêmes.
- La Résistance aux vibrations et aux coups.
- Le Fonctionnement de surpression à basse et haute température.
- La Résistance à l'humidité et à la température.
- Le Choc thermique -40÷150°C

Tous les capteurs FAE sont soumis aux essais d'étanchéité et aux vérifications de la tension de sortie.

COMPOSANT DU CAPTEUR

Le capteur MAP est de type piezorésistif avec une configuration de type "pont de wheatstone", c'est-à-dire que sa résistance électrique varie en fonction de la déformation mécanique d'une membrane.

Le capteur est intégré dans un DIE de type MEMS qui amplifie, compense thermiquement et modifie le signal. L'électronique digitale qu'il incorpore permet de programmer le signal de sortie entre 0÷5 V, en dépendant des spécifications demandées pour chaque référence. La DIE est montée sur un circuit céramique et ses connexions électriques sont réalisées au moyen de "bonding". Le tout est protégé par un réceptacle et un gel de silicone. Le circuit électronique est réalisé en utilisant une technologie hybride et est manipulé dans une salle blanche en raison de sa nature délicate.

La sortie des MAP se traduit par une relation linéaire entre la pression d'aspiration et la tension de sortie qui correspond à l'équation suivante:

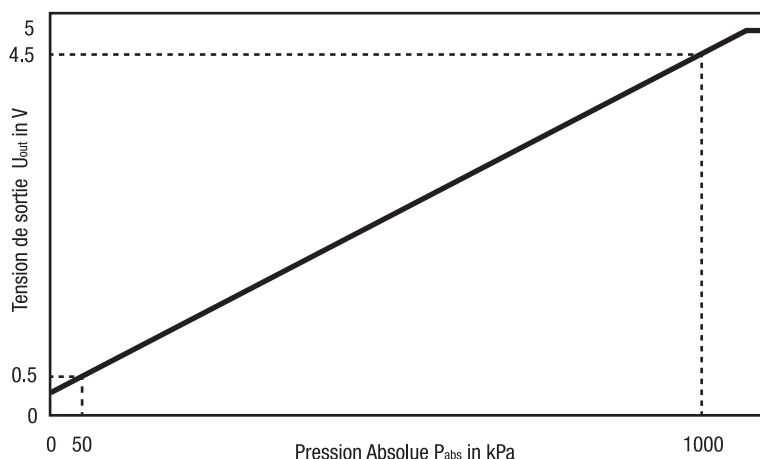
$$V_{out} = S \cdot P + Of$$

où: Vout: Tension de sortie (V)

S: Sensibilité

P: pression de l'air d'aspiration (kPa)

Of: Offset



Données techniques

- La tension d'alimentation.....5 V ±0.5 V
- Plage de température.....-20 à 120°C *
- Températures maximum et minimum.....-40 à 140°C
- Temps de réponse du capteur (t 10/90).....1.5 ms.
- La pression maximum.....700kPa **

*(dans la tolérance)

** (30°C durant 5s)

Toutes ces données sont communes pour tous les capteurs MAP FAE. Chaque référence possède sa propre courbe de fonctionnement et des tolérances spécifiques.

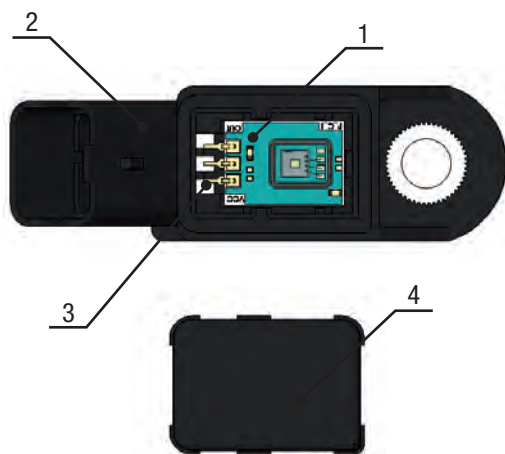


INFORMATION TECHNIQUE

COMPOSANTS :

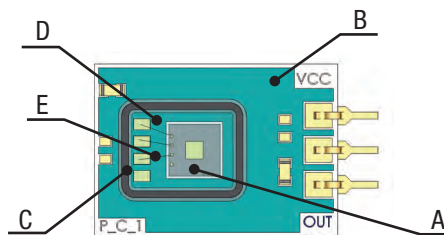
Le MAP est constitué des éléments suivant:

- 1- Cellule électronique: composée d'un circuit électronique monté sur une plaque céramique.
- 2- le Corps: en général de PBT+30FV, c'est le corps du circuit et des terminaux. On y trouve normalement l'entrée d'air du capteur (5).
- 3- les Cosses: auxquelles est soudé le circuit au moyen d'une soudure conventionnelle à l'étain.
- 4- Couvercle: qui peut avoir dans certains cas l'entrée d'air du capteur (5).



Dans le capteur on trouve:

- A-Circuit électronique.
- B-Plaque céramique.
- C-Le protecteur DIE.
- D-Gel de silicone (qui protège le circuit électronique).
- E-Bonding



NOTICE DE MONTAGE

Les étapes à suivre sont les suivantes:

- Trouver l'emplacement du capteur dans le véhicule. (monté sur le collecteur d'admission ou fixé à proximité)
- Déconnecter le tube flexible
- Déconnecter le connecteur du capteur MAP
- Dévisser les vis de fixation ou le système d'ancrage.
- Installer le nouveau capteur et le fixer
- Connecter au tube flexible

CONTROLE VISUEL / UNE CAUSE DE DEFAILLANCES

Vérifier le corps du capteur, le connecteur et le câble en s'assurant de leur bon état. Vérifier aussi que le corps du capteur ne montre pas de crevasse, bosselure ou de coup qui pourrait l'avoir abîmé.

A savoir toutefois qu'une inspection visuelle n'est pas suffisante pour s'assurer du bon ou mauvais fonctionnement de la pièce mais permet de réaliser un premier diagnostic.

Les causes de défaillance du capteur MAP peuvent être:

- Une détérioration des tubes flexibles.
- Une détérioration des câbles de connexion ou du connecteur.
- Une détérioration de la cellule du capteur induisant une mauvaise lecture de la pression.
- Un problème de fuites dans le capteur MAP.

Les effets possibles d'un mauvais fonctionnement du capteur MAP sont:

- Allumage du témoin lumineux "défaut moteur".
- Difficultés au démarrage.
- Perte de puissance ou augmentation de la consommation de carburant.
- Émission de fumée noire due au retard d'étincelle ou à un temps d'injection trop long.
- Explosion due à une avance excessive.



REF. FAE		COLOR / COLOUR / COULEUR	
FABRICANTE	Años	MAKER	Year
Modelos		Modèle	Année

Modelos

Años

Model

Year

Modèle

Année



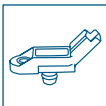
Reemplaza/Suitable/Remplace:
Cruce de Referencias.
Cross References
Tableau des equivalences

PRESIÓN
PRESION
PRESSIONE

VOLTAJE
VOLTAGE
TENSIONE

CONEXIÓN
CONNECTION
CONNEXION

SIMBOLOS / SYMBOLS / SYMBOLES



Sensores de Presión Absoluta
Map Sensors
Capteurs de pression



Tipo de conexión
Type of connection
Type de connexion

mV

Voltaje/Tensión de salida
Output Voltage/Tension
Voltage/Tension en sortie

kPa

Presión del aire
Aire Pressure
Pression de l'air

GLOSARIO / GLOSSARY / GLOSSAIRE



(A)	AUSTRIA	AUSTRIA	AUTRICHE
(ARG)	ARGENTINA	ARGENTINE	ARGENTINE
(AUS)	AUSTRALIA	AUSTRALIA	AUSTRALIE
(BR)	BRASIL	BRAZIL	BRESIL
(CH)	SUIZA	SWITZERLAND	SUISSE
(CHINA)	CHINA	CHINA	CHINE
(CND)	CANADÁ	CANADA	CANADA
(CS)	REPÚBLICA CHECA	CZECH REPUBLIC	RÉPUBLIQUE TCHÈQUE
(D)	ALEMANIA	GERMANY	ALLEMAGNE
(E)	ESPAÑA	SPAIN	ESPAGNE
(EU)	EUROPA	EUROPE	EUROPE
(F)	FRANCIA	FRANCE	FRANCE
(GB)	GRAN BRETAÑA	GREAT BRITAIN	GRANDE BRETAGNE
(GR)	GRECIA	GREECE	GRÈCE
(I)	ITALIA	ITALY	ITALIE
(IND)	INDIA	INDIA	INDE
(J)	JAPON	JAPAN	JAPON
(PL)	POLONIA	POLAND	POLOGNE
(RUS)	RUSIA	RUSSIA	RUSSIE
(S)	SUECIA	SWEDEN	SUÈDE
(TR)	TURQUIA	TURKEY	TURQUIE
(USA)	USA	USA	USA
(ZA)	SUDAFRICA	SOUTH AFRICA	AFRIQUE DU SUD

Los modelos de vehículos se dan como información general. No se deben utilizar como guía detallada de aplicaciones.

Vehicles models for general information only. Not to be used as a detailed applications guide.

Les modèles de véhicules sont présentés à titre d'information générale uniquement. Le document ne constitue pas un guide pratique et ne doit pas être utilisé comme tel.

Para identificar un Sensor de Presión Absoluta de un modelo específico, consultar Aplicaciones por Vehículos. Las piezas contenidas en este Catálogo, pueden estar sujetas a modificaciones dimensionales o de material, sin previo aviso.

Refer to Vehicle Applications to trace the Map Sensor of a specific model. The parts shown in this Catalogue, are subject to modification in design or material without notice.

Pour trouver un modèle spécifique d'un Capteur de Pression consulter les Applications par Vehicules. Les pièces contenues dans ce Catalogue, peuvent être modifiées en matériel ou exécution sans préavis.



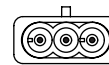
15001

ALFA ROMEO		HYUNDAI		PEUGEOT	
145 1.6 i.e., 146 1.6 i.e.	1994-96	ACCENT, COUPE	1994-02	406, 605, PARTNER	1989 ->
CITROËN		LANTRA, PONY	1989 ->	RENAULT	
BERLINGO 1.4 bivalent	2002 ->	JEEP		19, 21, 25	1984-96
BX, XANTIA, XM, XSARA	1988-03	CHEROKEE, WRANGLER	1988-96	CLIO, ESPACE, EXPRESS	1988 ->
DAEWOO		KIA		KANGOO, LAGUNA	1993 ->
LANOS, MATIZ, NUBIRA	1997 ->	PRIDE, SEPHIA, SHUMA	1990 ->	MASTER, MEGANE	1980 ->
FIAT		LANCIA		SAFRANE, SUPER	1985-00
PUNTO, TEMPRA	1994-97	DEDRA, DELTA	1986-99	TRAFIC, TWINGO	1989 ->
FORD		OPEL		VOLVO	
TOURNEO, TRANSIT	2000 ->	ASTRA, COMBO, CORSA	1985-05	440 K, 460 L, 480 E	1986-96
		KADETT, OMEGA	1985-94	850, S40, S70, V40, V70	1991-04
		TIGRA, VECTRA, ZAFIRA	1988-05		



Reemplaza / Suitable:	
Alfa Romeo	60811534
Daewoo	16137039
Fiat	7696064
Ford	1144809
Hyundai	39330-24750
Kia	0K950-18211
Opel	1238788
Peugeot	1920.4S/FC
Renault	77 00 706 876
Volvo	1378162

KPa	mV
15	210
102	4850



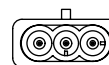
15002

OPEL		RENAULT		VOLVO	
MONTEREY B 3.0 DTI	1998-99	21 Sedan 2.0 Turbo	1987-92	740 2.0	1985-90
MOVANO Combi 2.8 DTI	1998-01	21 Sedan 2.0 Turbo 4x4	1989-93	740 2.3	1984-92
MOVANO Chasis 2.8 DTI	1998-01	25 2.4 V6 Turbo	1984-90	740 2.3 Turbo	1985-88
MOVANO Furgón 2.8 DTI	1999-01	25 2.5 V6 Turbo	1990-92	740 Kombi 2.0	1989-91
MOVANO Kipper 2.8 DTI	1999-01	SAFRANE 1.3.0 Biturbo 4x4	1993-96	740 Kombi 2.3	1985-92
OMEGA A 3.6 24V Lotus	1990-92			740 Kombi 2.3 Turbo	1985-90
				760 2.3 Turbo	1984-88
				760 Kombi 2.3 Turbo	1984-90



Reemplaza / Suitable:	
GM	12569241
	16040609
Isuzu	8-12569-241-0
	8-16040-609-0
Opel	1238572
	1238786
	4500031
	6235695
Renault	77 00 267 701
Volvo	1336384

KPa	mV
20	300
200	4800



15003

SAAB		SAAB Cont.	
900 II 2.0 16 Turbo	1993-98	9000 Fastback 2.3 16 CS	1989-98
900 II Cabriolet 2.0 16 Turbo	1993-98	9000 Fastback 2.3 16 CSE	1993-98
900 II Coupe 2.0 16 Turbo	1993-98	9000 Fastback 2.3 16 Turbo	1990-98
9000 2.0 16 CD	1993-98	9-3 2.0 SE Turbo	1998-02
9000 2.0 16 Turbo CD	1992-98	9-3 2.0 Turbo	1998-02
9000 2.3 16 CD	1989-98	9-3 Cabriolet 2.0 SE Turbo	1998-03
9000 2.3 16 CD Turbo	1990-98	9-3 Cabriolet 2.0 Turbo	1998-03
9000 2.3 16 CDE	1993-98		
9000 2.3 16 CDE Eco-Power	1993-98		
9000 2.3 16 Turbo	1990-93		
9000 Fastback 2.0 16 CS	1993-98		
9000 Fastback 2.0 16 ND	1993-98		



Reemplaza / Suitable:	
GM	16172899
Saab	91 32 374

KPa	mV
20	350
251	4700



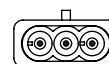
15005

FORD	
TRANSIT Bus 2.5 DI	1997-00
TRANSIT Bus 2.5 TD	1991-00
TRANSIT Chasis 2.5 DI	1999-00
TRANSIT Chasis 2.5 TD	1991-00
TRANSIT Furgón 2.5 DI	1992-00
TRANSIT Furgón 2.5 TD	1991-00
TRANSIT Furgón 2.5 TDI	1994-00
TRANSIT TOURNEO 2.5 TD	1994-00



Reemplaza / Suitable:	
Ford	6582335
	92VB9479AA

KPa	mV
40	250
250	4470



15006

ALFA ROMEO		FIAT		FIAT Cont.	
33 1.4 i.e.	1991-94	BRAVA 1.6 16V	1995-01	TIPO 1.8, 2.0	1989-95
CITROËN		CINQUECENTO 0.9, 1.1	1991-99	ULYSSE 1.8, 2.0	1994-02
AX 11	1986-97	COUPE 2.0 16V	1993-96	LANCIA	
BX 16 E, Break	1989-94	CROMA 1900, 2000	1987-96	DEDRA 1.6, 1.8, 2.0	1989-99
EVASION 1.8, 2.0	1994-02	DUCATO 2.0, 2.8	1994 ->	DELTA 1.6, 2.0	1986-99
JUMPER 2.0, 2.2	1994 ->	MAREA 1.6 100 16V	1996 ->	Y 1.1, 1.2	1995-03
XANTIA 1.8 i, Break	1993-98	PALIO Weekend 1.2, 1.6	1996-01	PEUGEOT	
XM 2.0 i, Break	1989-94	PANDA 900, 1000, 1100	1987-04	106 I 1.1	1991-96
XSARA 1.8 i Aut., Break	1997-00	PUNTO 55, 60, 75, Van	1993-00	806 1.8, 2.0	1994-02
ZX 1.4, 1.6, 1.8, 2.0	1991-97	SEICENTO 0.9, 1.1	1998 ->	BOXER 2.0, 2.2	1994 ->
IVECO		STRADA 1.2	1999 ->	EXPERT 1.8	1996-00
Daily II	1999 ->	TEMPRA 1.8 i.e., 2.0	1990-96		



Reemplaza / Suitable:	
Alfa Romeo	60814507
Citroën	96.092.693
Fiat	46531222
	500309838
	60811067
	60814507
	9609992380
Peugeot	1563.J4
	1920.J7
VW	377 906 309 C

KPa	mV
17	250
105	4750



15008

FORD		SAAB	
FIESTA III 1.6 Turbo	1990-92	9000 2.0 16	1989-93
		9000 2.0 16 Turbo	1985-93
		9000 2.0 16 Turbo CD	1988-93
		9000 2.3 16 CD	1989-98
		9000 2.3 16 CD Turbo	1990-98
		9000 2.3 16 Turbo	1990-93
		9000 Fastback 2.0 16	1985-88
		9000 Fastback 2.0 16 CS	1989-98
		9000 Fastback 2.0 16 Turbo	1984-93
		9000 Fastback 2.3 16 CS	1989-98
		9000 Fastback 2.3 16 Turbo	1990-98



Reemplaza / Suitable:	
Ford	1638311
Saab	75 38 697

KPa	mV
20	340
200	4460





15009

CITROËN		FIAT		PEUGEOT Cont.	
BERLINGO 1.4, 1.8	1996 ->	SCUDO 2.0	2000 ->	806 2.0 16V	1998-02
C5 1.8 16V, 2.0	2001-04	ULYSSE 2.0 16V	1998-02	807 2.2	2002 ->
C8 2.2	2002 ->	LANCIA		EXPERT 2.0, Furgón	2000 ->
EVASION 2.0 16V	1998-02	ZETA 2.0 16V	1998-02	PARTNER Combispace 1.4	1996 ->
JUMPY 2.0	2000-06	PEUGEOT		PARTNER Combispace 1.8	1997 ->
SAXO 1.4, 1.6	1996-04	106 II 1.4, 1.6	1996 ->	PARTNER Furgón 1.4	1996 ->
XANTIA 1.8, 2.0, 3.0	1998-03	206 1.1, 1.4, 1.6, 2.0	1998 ->	RENAULT	
XM 2.0, 3.0	1994-00	306 1.4, 1.6, 1.8, 2.0	1993-02	ESPACE III 3.0 V6 24V	1998-02
XSARA 1.4, 1.6, 1.8, 2.0	1997-05	307 2.0, Break, CC, SW	2000 ->	LAGUNA 3.0 24V	1997-01
XSARA PICASSO	1999 ->	406 1.8, 2.0, 2.2, 3.0	1995-04	LAGUNA Grandtour 3.0 24V	1997-01
		407 2.2, SW	2004 ->		
		607 2.0, 2.2 16V	2000 ->		


Reemplaza / Suitable:

Fiat	9631813680
	9639418880
Peugeot	1920.1K
	1920.AN
Renault	96 31 813 680
	96 39 418 880

KPa
20
105

mV
390
4750



15011

CITROËN		PEUGEOT		PEUGEOT Cont.	
C4 2.0 16V, Coupe	2004 ->	106 II 1.6 S16	1996 ->	607 2.0	2000 ->
C5 1.8, 2.0, 3.0	2001 ->	206 CC 2.0 S16	2000 ->	607 3.0 V6 24V	2000 ->
C6 3.0 V6	2005 ->	206 Fastback 2.0 S16	2000 ->	807 2.0	2002 ->
C8 2.0, 3.0 V6	2002 ->	206 SW 2.0 16V	2002 ->	807 3.0 V6	2002 ->
SAXO 1.6, VTS	1996-04	307 2.0 16V	2000 ->	RENAULT	
XSARA 2.0 16V	2000-05	307 Break 2.0	2002 ->	AVANTIME 3.0 V6	2001-03
XSARA PICASSO 1.8 16V	2000 ->	307 CC 2.0 16V	2003 ->	CLIO II 3.0 V6 Sport	2000 ->
XSARA PICASSO 2.0 16V	2003 ->	307 SW 2.0 16V	2002 ->	LAGUNA II 3.0 V6 24V	2001 ->
FIAT		406 3.0 V6, Break, Coupe	2000-04		
ULYSSE 2.0, 3.0 V6	2002 ->	407 1.8, 2.0, 3.0	2004 ->		
LANCIA		407 Coupe 3.0 V6	2005 ->		
PHEDRA 2.0, 3.0 V6	2002 ->	407 SW 1.8, 2.0, 3.0	2004 ->		


Reemplaza / Suitable:

Citroën	96.354.934
	96.394.191
Peugeot	1920.AC
	4574.03
	4574.05
Renault	96 39 418 980

KPa
20
117

mV
790
4750



15012

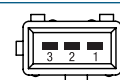
CITROËN		PEUGEOT		RENAULT	
BERLINGO 1.4 i, 1.8 i	1996 ->	106 II 1.4 i, 1.6 S16	1996 ->	ESPACE III 3.0 V6 24V	1998-02
EVASION 2.0 16V	1998-00	206 Fastback 1.1, 1.4, 1.6	1998 ->	LAGUNA 3.0 24V	1997-01
SAXO 1.4, 1.6	1996-04	306 1.4, 1.6, 1.8, 2.0	1993-02	LAGUNA Grandtour 3.0 24V	1997-01
XANTIA 1.8, 2.0, 3.0	1995-03	806 2.0 16V	1998-00		
XM 2.0 i 16V, 3.0 V6	1994-00	PARTNER Combispace 1.4	1996 ->		
XSARA 1.4, 1.6, 1.8, 2.0	1997-05	PARTNER Combispace 1.8	1997 ->		
ZX 1.4, 1.8, 2.0	1991-98	PARTNER Furgón 1.4	1996 ->		
FIAT					
ULYSSE 2.0 16V	1998-00				
LANCIA					
ZETA 2.0 16V	1998-00				


Reemplaza / Suitable:

Fiat	9618261580
Peugeot	1920.0E
	1920.9H
Renault	96 18 261 580

KPa
20
100

mV
385
4450



15013

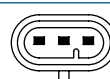
CHEVROLET		OPEL		OPEL Cont.	
Epica 2.0	2005-06	ASTRA G 1.4, 1.6, 2.2	1998-05	VECTRA B 1.6 i 16V, 2.2	1995-03
Tacuma 2.0	2005 ->	ASTRA H 1.6	2004 ->	VECTRA C 1.6, 2.2	2002 ->
DAEWOO		COMBO 1.6	2001 ->	ZAFIRA 1.6	2005 ->
LEGANZA 2.0 16V, 2.2 16V	1997 ->	CORSA C 1.4	2000 ->	ZAFIRA 1.6 16V	1999-05
NUBIRA 2.0 16V	1997 ->	FRONTERA B 2.2 i	1998 ->	ZAFIRA 1.6 CNG	2001-05
NUBIRA Sedan 2.0 16V	1997 ->	MERIVA 1.6	2003 ->	ZAFIRA 2.2	2005 ->
NUBIRA Wagon 2.0 16V	1997 ->	MERIVA 1.6 16V	2003 ->	ZAFIRA 2.2 16V	2000-05
FIAT		MERIVA 1.6 Turbo	2005 ->	RENAULT	
CROMA 2.2 16V	2005 ->	MERIVA 1.7 DTI	2003 ->	LAGUNA Grandtour 1.6 16V	1997-01
		MONTEREY B 3.5 V6 24V	1998-99	MEGANE I Grandtour 1.4 e	1999 ->
		SIGNUM 2.2 direct	2003 ->	TWINGO 1.2	2007 ->
		SPEEDSTER 2.2	2000 ->		


Reemplaza / Suitable:

Chevrolet	16212460
Daewoo	16212460
Fiat	71739292
GM	16212460
	16258659
	90063543
Opel	4409668
	6238120
	6238159
Renault	77 00 106 644

KPa
20
100

mV
525
4775



15014

AUDI		CITROËN Cont.		SEAT	
80 1.9 TDI	1991-94	ZX 1.8 i	1992-97	CORDOBA 1.9 TDI	1996-99
80 Avant 1.9 TDI	1992-96	ZX Break 1.8 i	1993-97	CORDOBA Vario 1.9 TDI	1996-99
CITROËN		FIAT		IBIZA II 1.9 TDI	1996-99
SAXO 1.6	1996-04	Uno 1.6 R	1992-95	TOLEDO I 1.9 TDI	1995-99
SAXO 1.6 VTL_VTR	1996-03	PEUGEOT		VOLKSWAGEN	
SAXO 1.6 VTS	2000-03	106 I 1.6	1993-96	CADDY II Furgón 1.9 TDI	1996-04
XANTIA 1.8 i	1993-98	106 II 1.6 i	1996 ->	CADDY II Kombi 1.9 TDI	1996-04
XANTIA Break 1.8 i	1995-98	306 1.6 SR	1994-00	PASSAT 1.9 TDI	1993-96
XM 2.0 i	1989-94	306 Break 1.6	1997-00	PASSAT Variant 1.9 TDI	1993-97
XM Break 2.0 i	1991-94	306 Cabriolet 1.6	1996-00		
XSARA 1.6 i	1997-00	306 Fastback 1.6	1993-00		
XSARA Break 1.6 i	1997-00				


Reemplaza / Suitable:

Citroën	96.107.893
Fiat	7529274
Peugeot	1920.K8
VW	237 906 311 1
	3A0 906 051

KPa
20
105

mV
400
4650



15015

CITROËN		HONDA		ROVER	
XM 2.5 TD	1994-00	ACCORD VI 2.0 Tdi	1996-98	200 220 D/SD	1995-00
XM Break 2.5 TD	1994-00	ACCORD VII 2.0 Turbo Di	1999-02	200 220 Sdi	1995-00
FORD		ACCORD VII 2.0 TDi	1999-00	25 2.0 iDT	1999 ->
SCORPIO II 2.5 TD	1996-98	CIVIC V Aerodeck 2.0 i D	1998-01	400 420 D	1995-00
SCORPIO II Kombi 2.5 TD	1996-98	CIVIC V Fastback 2.0 i TD	1997-01	400 420 Di	1995-00
		CIVIC V Fastback 2.0 TDiC	1998-00	400 Fastback 420 D	1995-00
		MG		400 Fastback 420 Di	1995-00
		MG ZR Turbodiesel	2001 ->	45 2.0 iDT	2000 ->
				45 Sedan 2.0 iDT	2000 ->
				600 620 Sdi	1994-99


Reemplaza / Suitable:

Ford	1041355
	V97GB9F479-AB
Honda	37830-PST-600
Peugeot	1920.3L
Rover	MHK 100410

KPa
20
250

mV
410
4650





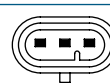
15016

DACIA		OPEL		RENAULT Cont.	
LOGAN 1.4, 1.5, 1.6	2004 ->	VIVARO 2.0 16V, ECOTEC	2001 ->	MASTER III 2.5 dCi, 100	2003 ->
SANDERO 1.4, 1.6	2008 ->	RENAULT		MEGANE I	1996 ->
NISSAN		AVANTIME 2.0, 2.2, 3.0	2001-03	MEGANE II	2002 ->
ALMERA II 1.5 dCi	2003 ->	CLIO II, III	1998 ->	MODUS 1.2, 1.4, 1.5, 1.6	2004 ->
INTERSTAR dCi 90	2002 ->	ESPACE III, IV	1998 ->	SCÉNIC I	1999-03
KUBISTAR 1.2, 1.6	2003 ->	GRAND SCÉNIC II	2004 ->	SCÉNIC II	2003 ->
MICRA	2003 ->	KANGOO 1.2, 1.4, 1.6	1997 ->	TRAFIC II	2001 ->
NOTE 1.4, 1.5, 1.6	2006 ->	LAGUNA 1.6, 1.8, 2.0	1997-01	TWINGO 1.2	1996 ->
PRIMASTAR 2.0	2001 ->	LAGUNA II	2001 ->	VEL SATIS 2.0, 2.2, 3.5	2002 ->
QASHQAI 1.5, 1.6, 2.0	2007 ->	LAGUNA III	2007 ->		
TIDA 1.5, 1.6, 1.8	2007 ->	LOGAN 1.4, 1.5, 1.6	2004 ->		
X-TRAIL 2.0, 2.5	2007 ->	MASTER II 2.5 dCi 120	2001 ->		



Reemplaza / Suitable:
G.M. 93198487
Nissan 25085-00QAA
25085-00QOB
Opel 4435200
Renault 77 00 101 762
82 00 105 165
82 00 121 800
82 00 719 629

KPa	mV
20	520
100	4780



15017

CITROËN		PEUGEOT		PEUGEOT Cont.	
C5 2.0 HDi, 2.2 HDi	2001-04	406 2.0 HDi 110	1998-04	EXPERT Furgón 2.0 HDi	2000 ->
C8 2.0 HDi, 2.2 HDi	2002 ->	406 2.2 HDi	2000-04	SUZUKI	
EVASION 2.0 HDi	1999-02	406 Break 2.0 HDi 110	1999-04	GRAND VITARA 2.0 HDi 110	2001 ->
JUMPY 2.0 HDi	1999 ->	406 Break 2.2 HDi	2000-04		
XANTIA 2.0 HDi	1999-03	406 Coupe 2.2 HDi	2000-04		
FIAT		607 2.0 HDi	2000 ->		
SCUDO 2.0 JTD	1999 ->	607 2.2 HDi	2000 ->		
ULYSSE 2.0 JTD, 2.2 JTD	1999 ->	806 2.0 HDi	1999-02		
LANCIA		806 2.0 HDi 16V	1999-02		
PHEDRA 2.0 JTD, 2.2 JTD	2002 ->	807 2.0 HDi	2002 ->		
ZETA 2.0 JTD	1999-02	807 2.2 HDi	2002 ->		
		EXPERT 2.0 HDi	2000 ->		



Reemplaza / Suitable:
Citroën 96.317.166.80
Fiat 9631716680
Peugeot 1920.77
Suzuki 1859067G00000

KPa	mV
10	950
250	4750



15018

MITSUBISHI		RENAULT		VOLVO	
SPACE STAR 1.9 DI-D	2001 ->	AVANTIME 2.0 16V Turbo	2001-03	S40 I 1.9 DI	2000-03
		ESPACE III 2.2 dCi	2000-02	V40 Kombi 1.9 DI	2000-04
		ESPACE IV 2.0 Turbo	2002 ->		
		LAGUNA II 1.9 dCi	2001 ->		
		LAGUNA II 2.0 16V Turbo	2003 ->		
		VEL SATIS 2.0 16V Turbo	2002 ->		



Reemplaza / Suitable:
Mitsubishi M-889795
Renault 77 00 106 886
Volvo 30889795

KPa	mV
15	300
255	4750



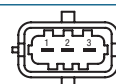
15019

ALFA ROMEO		LANCIA		RENAULT Cont.	
147, 156, 166, MITO	2000 ->	LYBRA, MUSA	2000 ->	MODUS 1.2 16V	2007 ->
FIAT		THESIS, YPSILON	2002 ->	TRAFIC II 2.5 dCi 135	2001 ->
500 1.3 D Multijet	2007 ->	NISSAN		TWINGO 1.2 Turbo	2007 ->
BRAVA, BRAVO, DOBLO	2000 ->	PRIMASTAR dCi 140, 150	2003 ->	VEL SATIS 2.2 dCi	2002 ->
FIORINO 1.3 D Multijet	2008 ->	OPEL		SMART	
GRANDE PUNTO 1.3, 1.4	2005 ->	AGILA 1.3 CDTI	2003 ->	CABRIO 0.6, 0.7	2000-04
IDEA, LINEA, MAREA	1996 ->	COMBO, CORSA, MERIVA	2003 ->	CITY-COUPE 0.6, 0.7	1998-04
MULTIPLA 1.9 JTD	1999 ->	TIGRA, VIVARO	2003 ->	CROSSBLADE 0.6	2002 ->
PANDA, PUNTO, QUBO	2001 ->	RENAULT		SUZUKI	
STILO, STRADA	2001 ->	AVANTIME 2.2 dCi	2002-03	IGNIS II 1.3 DDIS	2003 ->
		CLIO III, ESPACE III, IV	2000 ->	SWIFT III 1.3 DDIS	2005 ->
		LAGUNA II 1.9 dCi, 2.2	2001 ->	WAGON R+ 1.3 DDIS	2003 ->



Reemplaza / Suitable:
Alfa Romeo 46811235
Fiat 46811235
Gm 93177414
Nissan 22365-00QAA
22365-BN701
Opel 6235631
Renault 82 00 155 613
Smart 0003121V00300
Suzuki 18590-84E50
18590M86J00

KPa	mV
20	390
256	4750



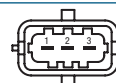
15021

FIAT	
DOBLO 1.4	2005 ->
DOBLO Cargo 1.4	2005 ->
GRANDE PUNTO 1.4	2005 ->
IDEA 1.4	2005 ->
LINEA 1.4	2007 ->
LANCIA	
MUSA 1.4	2005 ->
THESIS 2.0 Turbo	2002 ->
YPSILON 1.4	2006 ->



Reemplaza / Suitable:
Fiat 46769979
77363792

KPa	mV
10	390
117	4750



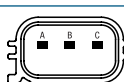
15022

FORD	
FIESTA Furgón 1.8 DI	2000 ->
FIESTA IV 1.8 DI	2000-02
FOCUS 1.8 DI / TDDi	1999-04
FOCUS 1.8 TDCi	2002-04
FOCUS 1.8 Turbo DI / TDDi	1998-04
TOURNEO CONNECT 1.8	2002 ->
TRANSIT CONNECT 1.8	2002 ->



Reemplaza / Suitable:
Ford 1041954
1127268
98AB-9S428-AB

KPa	mV
40	300
250	4500





15023

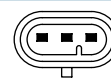
NISSAN		OPEL		RENAULT	
INTERSTAR Bus dCi 80	2002 ->	Movano Combi 1.9 DTi	2000-01	CLIO II 1.5 dCi	2001 ->
INTERSTAR Furgón dCi 80	2002 ->	VIVARO Combi 1.9 DI	2001 ->	CLIO II Furgón 1.5 dCi	2001 ->
PRIMASTAR Bus dCi 100	2001 ->	VIVARO Combi 1.9 DTi	2001 ->	KANGOO 1.5 dCi	2001 ->
PRIMASTAR Bus dCi 80	2001 ->	VIVARO Chasis 1.9 DTi	2006 ->	KANGOO Express 1.5 dCi	2001 ->
PRIMASTAR Furgón dCi 100	2002 ->	VIVARO Furgón 1.9 DI	2001 ->	TRAFIC II Chasis 1.9 dCi	2001 ->
PRIMASTAR Furgón dCi 80	2002 ->	VIVARO Furgón 1.9 DTi	2001 ->		



Reemplaza / Suitable:
GM 91167213
Nissan 22365-00QAB
Opel 4410279
Renault 77 00 111 957

KPa
15
255

mV
300
4750



15024

MERCEDES BENZ		PUCH	
A-CLASS A 160 CDI	1998-04	G-MODELL G 300 TD	1996 ->
A-CLASS A 170 CDI	1998-04		
E-CLASS E 250 D, TD	1993-99		
E-CLASS E 200 CDI	1999-02		
G-CLASS Cabrio G 300 TD	1996 ->		
G-CLASS G 300 TD	1996 ->		
SPRINTER Diesel	1995-06		
VITO Diesel	1993-03		



Reemplaza / Suitable:
Mercedes 011 542 07 17

KPa
38
263

mV
250
4750



15025

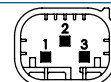
MERCEDES BENZ		MERCEDES BENZ Cont.		PUCH	
A-CLASS A	1997 ->	SLK	2000 ->	G-MODELL G 500	1998 ->
B-CLASS B	2005 ->	SPRINTER 3,5	2006 ->	G-MODELL G 55 AMG	1999 ->
C-CLASS C	1997 ->	SPRINTER 3,5-t	2006 ->	VOLKSWAGEN	
CLK	1997 ->	SPRINTER 3-t	2006 ->	CRAFTER 30-35 2.5 TDI	2006 ->
CLS	2004 ->	SPRINTER 5-t	2006 ->	CRAFTER 30-50 2.5 TDI	2006 ->
E-CLASS E	1996 ->	VANEO 1.6, 1.9	2002 ->		
G-CLASS G	1997 ->	VIANO 2.2, 3.0, 3.2, 3.7	2003 ->		
GL-CLASS GL	2006 ->	VITO	2003 ->		
M-CLASS ML	1998 ->				
R-CLASS R	2006 ->				
S-CLASS S	1998 ->				
SL 350, 500	2001 ->				



Reemplaza / Suitable:
Mercedes 004 153 30 28
004 153 32 28
005 153 50 28
006 153 13 28
2E0 906 051 A
VW

KPa
10
127

mV
500
4750



15026

AUDI		SEAT		VOLKSWAGEN	
A3 1.8, 2.0	2004 ->	ALTEA 1.8 TFSI	2007 ->	EOS 2.0 TFSI	2006 ->
A3 S3 quattro	1999 ->	ALTEA 2.0 TFSI	2006 ->	GOLF V 2.0 GTI	2004 ->
A4 1.8 T, quattro	2004 ->	ALTEA XL 1.8 TFSI	2007 ->	GOLF V Variant 1.4 TSI	2007 ->
A4 2.0 TFSI	2004 ->	ALTEA XL 2.0 TFSI 4x4	2007 ->	GOLF V Variant 2.0	2007 ->
A4 Avant 1.8 T, quattro	2004 ->	LEON 1.8, 2.0	2002 ->	JETTA III 1.4 TSI	2007 ->
A4 Avant 2.0 TFSI	2004 ->	TOLEDO III 1.8 TFSI	2007 ->	JETTA III 2.0 TFSI	2005 ->
A4 Cabriolet 1.8 T	2002 ->	TOLEDO III 2.0 TFSI	2005-09	PASSAT 1.8 T 20V	2000-05
A4 Cabriolet 2.0 TFSI 16V	2006 ->	SKODA		PASSAT 2.0 TFSI	2005 ->
A6 2.0 TFSI, Avant	2005 ->	OCTAVIA 2.0 RS, Combi	2005 ->	SCIROCCO 2.0 TSI	2008 ->
TT 1.8, 2.0	1998 ->	SUPERB 1.8 T	2002-08	TIGUAN 2.0 TFSI 4motion	2007 ->
		SUPERB 1.8 TSI	2008 ->		
		SUPERB 1.8 TSI 4x4	2008 ->		



Reemplaza / Suitable:
VW 038 906 051 D

KPa
20
260

mV
250
4750



15027

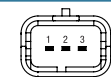
CITROËN		FORD		PEUGEOT Cont.	
C1 1.4 HDi	2005 ->	FIESTA V 1.4 TDCi	2001 ->	207 1.4 HDi	2006 ->
C2 1.4 HDi	2003 ->	FIESTA Van 1.4 TDCi	2003 ->	406 2.0 HDi 110, Break	2001-04
C3 1.4 HDi	2002 ->	FIESTA VI 1.4 TDCi	2009 ->	607 2.0 HDi	2000 ->
C5 2.0 HDi, Break	2001-04	FUSION 1.4 TDCi	2002 ->	607 2.2 HDi	2000 ->
C5 2.2 HDi, Break	2001 ->	LANCIA		807 2.0 HDi	2002 ->
C8 2.0 HDi, 2.2	2002 ->	PHEDRA 2.0 JTD	2003 ->	807 2.2 HDi	2002 ->
JUMPY 2.0 HDi 95	1999 ->	PHEDRA 2.2 JTD	2002 ->	BIPPER 1.4 HDi	2008 ->
NEMO Furgón 1.4 HDi	2008 ->	PEUGEOT		EXPERT 2.0 HDi	2000 ->
		1007 1.4 HDi	2005 ->	EXPERT Furgón 2.0 HDi	2000 ->
ULYSSE 2.0 JTD	2003 ->	107 1.4 HDi	2005 ->		
ULYSSE 2.2 JTD	2002 ->	206 1.4 HDi eco 70	2001 ->		
		206 SW 1.4 HDi	2002 ->		



Reemplaza / Suitable:
Citroën 96.427.899.80
Fiat 9642789980
Ford 1333353
2S6Q12T551-AA
Peugeot 1920.GH
Toyota SU001-00645

KPa
10
250

mV
940
4750



15028

BMW		BMW Cont.	
1 118 d	2004 ->	3 Touring 318 d	2003 ->
1 120 d	2004 ->	3 Touring 320 d	2001 ->
3 318 d	2003 ->	3 Touring 330 d	2003-05
3 320 d	2001 ->	3 Touring 330 xd	2003-05
3 330 d	2003-05	5 520 d	2005 ->
3 330 xd	2003-05	5 530 d	2003 ->
3 Cabriolet 320 Cd	2005 ->	5 Touring 520 d	2005 ->
3 Cabriolet 330 Cd	2005 ->	5 Touring 530 d	2004 ->
3 Compact 318 td	2003-05	7 730 d	2002 ->
3 Compact 320 td	2001-05	7 740 d	2002 ->
3 Coupe 320 Cd	2003 ->	X3 2.0 d	2004 ->
3 Coupe 330 Cd	2003 ->	X5 3.0 d	2003 ->



Reemplaza / Suitable:
BMW 13 61 7 787 142
7 787 142

KPa
35
314

mV
250
4750





15029

BMW		BMW Cont.		LAND ROVER	
3 318 d	2001-03	5 Touring 525 d	2000-04	FREELANDER 2.0 Td4	2000 ->
3 320 d	1998-01	5 Touring 530 d	1998-04	FREELANDER 2.5 V6	2000 ->
3 330 d	1999-05	7 730 d	1998-01	RANGE ROVER III 3.0 TD 6	2002 ->
3 330 xd	2000-05	7 740 d	1999-01	OPEL	
3 Touring 318 d	2002-05	X5 3.0 d	2001 ->	OMEGA B 2.5 DTI	2001-03
3 Touring 320 d	2000-01			OMEGA B Caravan 2.5 DTI	2001-03
3 Touring 330 d	1999-05				
3 Touring 330 xd	2000-05				
5 520 d	2000-03				
5 525 d	2000-03				
5 530 d	1998-03				
5 Touring 520 d	2000-03				



Reemplaza / Suitable:
BMW 13 62 2 246 977
2 246 977
GM 93171579
Opel 5850801
Rover MHK 10106L

KPa	mV
26	290
250	4750



15030

AUDI		SEAT		VOLKSWAGEN	
A2 1.2 TDI	2001-05	ALHAMBRA 1.8, 1.9	1996 ->	BORA 1.8, 1.9	1998-05
A2 1.4 TDI	2000-05	AROSA 1.4 TDI	2000-04	CADDY II 1.9 TDI	1996-04
A3 1.8 T, quattro	1996 ->	CORDOBA 1.8, 1.9	1999-02	FOX 1.4 TDI	2005 ->
A3 1.9 TDI	1996 ->	IBIZA III 1.8, 1.9	1999-02	GOLF IV 1.8, 1.9	1997-06
A3 S3 quattro	1999 ->	LEON 1.8, 1.9	1999-06	LT 28-35 II Bus 2.8 TDI	2001-06
A6 1.8, 1.9	1997-05	TOLEDO II 1.8, 1.9	1999-06	LT 28-46 II 2.8 TDI	2002-06
ALLROAD 2.7 T quattro	2000-05	SKODA		LUPO 1.4 TDI	1999-05
TT 1.8 T, quattro	1998-06	FABIA 1.9 TDI	2000-08	NEW BEETLE 1.8, 1.9, 2.0	1999 ->
FORD		OCTAVIA 1.8, 1.9	1996 ->	PASSAT 1.8, 2.5	2000-05
GALAXY 1.9 TDI	1995-06	SUPERB 1.8, 1.9, 2.5	2002-08	POLO 1.4 TDI	2001 ->
				POLO 1.9 TDI	1997 ->
				POLO CLASSIC 110 1.9 TDI	1998-01
				POLO CLASSIC 90 1.9 TDI	1996-01



Reemplaza / Suitable:
Ford 1111222
99VW-9E928-AA
Seat/Skoda 038 906 051
VW 062 906 051

KPa	mV
20	400
260	4850



15031

SEAT		VOLKSWAGEN	
AROSA 1.0	1997-04	CADDY II Furgón 60 1.4	1995-04
AROSA 1.4	1997-04	CADDY II Kombi 1.4	1995-04
CORDOBA Fastback 1.0	1999-02	GOLF III 1.4	1991-97
IBIZA III 1.0	1999-02	GOLF III Variant 1.4	1993-99
IBIZA III 1.6	1999-02	LUPO 1.0	1998-05
INCA 1.4 16V	2000-03	POLO 50 1.0	1996-99
INCA 1.4 i	1995-03	POLO 55 1.4	1995-99
		POLO 60 1.4	1995-99
		POLO CLASSIC 60 1.4	1995-01
		POLO Furgón 1.4	1998-99
		POLO Variant 1.4	1997-01



Reemplaza / Suitable:
Seat 030 906 051 A
VW 030 906 051

KPa	mV
20	400
115	4650



15032

SEAT		VOLKSWAGEN	
LEON 1.9 TDI	2001-06	BORA 1.9 TDI	2000-05
LEON 1.9 TDI Syncro	2002-06	BORA 1.9 TDI 4motion	2000-05
TOLEDO II 1.9 TDI	2000-06	GOLF IV 1.9 TDI	2000-05
		GOLF IV 1.9 TDI 4motion	2000-05



Reemplaza / Suitable:
VW 038 906 051 A

KPa	mV
20	400
280	4375



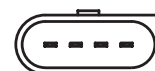
15033

AUDI		SKODA		VOLKSWAGEN Cont.	
A3 1.6, 2.0 FSI	2003 ->	FABIA 1.2	2003 ->	JETTA III 1.6, 2.0 FSI	2005 ->
SEAT		OCTAVIA 1.4, 1.6, 2.0	2000 ->	LUPO 1.0, 1.4	1998-05
ALTEA 1.6, 2.0 FSI	2004 ->	PRAKTIK 1.2	2007 ->	NEW BEETLE 1.4	2001 ->
AROSA 1.0, 1.4	1997-04	ROOMSTER 1.2	2006 ->	PASSAT 1.6, 2.0 FSI	2005 ->
CORDOBA 1.2, 1.4	1999 ->	VOLKSWAGEN		POLO 1.0	1999-01
IBIZA III, IV, V	1999 ->	BORA 1.4 16V	2000-05	POLO 1.2 12V	2001 ->
INCA 1.4 i	1995-03	CADDY III 1.6	2004 ->	POLO 1.4	1999-01
LEON 1.4, 1.6, 2.0	1999 ->	EOS 2.0 FSI	2006 ->	POLO CLASSIC 60 1.4	1995-01
TOLEDO II, III	1999 ->	GOLF IV 1.4 16V	1997-06	POLO Variant 1.4	1997-01
		GOLF PLUS 1.6, 2.0	2005 ->	TOURAN 1.6	2003 ->
		GOLF V 1.6, 2.0	2004 ->	TOURAN 2.0 FSI	2003 ->
		GOLF VI 1.6	2008 ->		



Reemplaza / Suitable:
VW 06B 906 051

KPa	mV
20	390
117	4625



15034

AUDI		SKODA Cont.		VOLKSWAGEN	
A4 2.0 FSI	2002-04	FABIA Sedan 1.2	2001-07	OCTAVIA 1.4	1999 ->
A4 Avant 2.0 FSI	2002-04	FABIA Sedan 1.4	2000-07	CADDY II Pick-up 1.6	1996-00
SEAT		FELICIA I 1.6 LX	1995-98	FOX 1.2	2005 ->
IBIZA IV 1.2	2007-08	FELICIA I Fun 1.6	1997 ->	POLO 1.2	2002 ->
SKODA		FELICIA I Kombi 1.6 GLX	1995-98		
FABIA 1.0	1999-02	FELICIA II 1.6	1998-01		
FABIA 1.2	2002 ->	FELICIA II Kombi 1.6	1998-01		
FABIA 1.4	1999-08				
FABIA Combi 1.2	2001 ->				
FABIA Combi 1.4	2000-07				
FABIA Praktik 1.2	2001-07				
FABIA Praktik 1.4	2001-07				



Reemplaza / Suitable:
VW 03D 906 051
03D 906 051 A

KPa	mV
15	250
120	4750





15035

CITROËN		CITROËN Cont.		PEUGEOT	
BERLINGO 1.1, 1.4, 1.6	1996 ->	SAXO 1.1, 1.4, 1.6	1996-04	1007 1.4, 1.6	2005 ->
C2 1.1, 1.4, 1.6	2003 ->	XSARA 1.4, 1.6	1997-05	106 II 1.1 i, 1.4 i	1996 ->
C3 1.1, 1.4, 1.6	2002 ->	XSARA PICASSO 1.6 16V	2005 ->	206 1.1, 1.4, 1.6, 2.0	1998 ->
C4 1.4, 1.6, 2.0	2004 ->	FIAT		207 1.4, 1.6	2006 ->
C4 Grand Picasso 1.8, 2.0	2006 ->	FIORINO Furgón 1.4	2008 ->	306 1.4, 1.6	1994-02
C4 Picasso 1.8, 2.0	2007 ->	QUBO 1.4	2008 ->	307 1.4, 1.6, 2.0	2000 ->
C5 1.8, 2.0	2004 ->			407 1.8, 2.0, 2.2	2005 ->
C8 2.0 16V	2005 ->			807 2.0 16V	2005 ->
JUMPY 2.0 i	2007 ->			BIPPER 1.4	2008 ->
NEMO Furgón 1.4	2008 ->			EXPERT Furgón 2.0 16V	2007 ->
				EXPERT Tepee 2.0 16V	2007 ->
				PARTNER 1.1, 1.4, 1.6	1996 ->



Reemplaza / Suitable:	
Citroën	96 393 814 80
Peugeot	1920.AJ
	4676.80
Fiat	9639381480

KPa

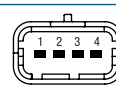
10

115

mV

400

4650



15036

ALFA ROMEO		FIAT Cont.		MAZDA	
147, 156, 159, 166	2002 ->	MULTIPLA, PUNTO, QUBO	2002 ->	BT-50 2.5 CD 4WD	2006 ->
BRERA 2.4 JTDM 20V	2006 ->	SEDCI, STILO, STRADA	2001 ->	OPEL	
GT 1.9 JTD	2003 ->	FORD		ASTRA, CORSA	1999 ->
MITO, SPIDER	2007 ->	RANGER 3.0 TDCi	2005 ->	FRONTERA B 2.2 DTI	1998 ->
CITROËN		HONDA		SIGNUM, VECTRA	2002 ->
JUMPER 3.0 HDi 160	2006 ->	ACCORD, CIVIC	2004 ->	ZAFIRA 1.9, 2.0, 2.2	2000 ->
FIAT		CR-V II, III	2005 ->	PEUGEOT	
BRAVO, CROMA	2005 ->	FR-V 2.2 i CTDi	2005 ->	BOXER 3.0 HDi 160	2006 ->
DOBLO, DUCATO	2001 ->	LANCIA		SAAB	
FIORINO 1.3 D Multijet	2008 ->	DELTA III, MUSA	2004 ->	9-3 1.9, 2.2	1998 ->
GRANDE PUNTO	2005 ->	THESIS, YPSILON	2003 ->	9-5 1.9, 2.2	2002 ->
IDEA, LINEA	2004 ->				



Reemplaza / Suitable:	
Alfa Romeo	73503657
Fiat	504088431
Ford	1448387
GM	93171176
Honda	37830-RBD-E01
Mazda	WE01-18-211
Opel	6238210
Peugeot	1636.39
Saab	24 459 853
	53 41 409

KPa

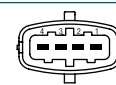
11

307

mV

250

4750



15037

AUDI		SEAT Cont.		VOLKSWAGEN Cont.	
A2 1.2, 1.4	2000-05	LEON 1.4, 1.8, 1.9	1999 ->	GOLF IV, PLUS, V	1997 ->
A3 1.4, 1.9	2000 ->	TOLEDO II, III	1999 ->	JETTA III 1.4, 1.9	2005 ->
A4 1.9, 2.5	2002 ->	SKODA		LUPO 1.4 TDI	1999-05
A6 2.7, 3.0	2004 ->	FABIA 1.4, 1.9	2000 ->	MULTIVAN V 1.9 TDI	2003 ->
A8 3.0, 4.0	2003 ->	OCTAVIA 1.4, 1.8, 1.9	1996 ->	NEW BEETLE 1.9 TDI	2001 ->
FORD		PRAKTIK 1.4 TDI	2007 ->	PASSAT 1.4, 1.9, 2.5	2000 ->
GALAXY 1.9 TDI	1995-06	ROOMSTER 1.4, 1.9	2006 ->	POLO 1.4, 1.8, 1.9	2001 ->
SEAT		SUPERB 1.4, 1.9, 2.5	2002 ->	SCIROCCO 1.4 TSI	2008 ->
ALHAMBRA 1.8, 1.9	1996 ->	VOLKSWAGEN		SHARAN 1.8, 1.9	1995 ->
ALTEA 1.4, 1.9	2004 ->	BORA 1.8, 1.9	2000-05	TOURAN 1.9 TDI	2003 ->
CORDOBA 1.4, 1.9	2002 ->	CADDY III 1.9, 2.0	2004 ->	TRANSPORTER V 1.9 TDI	2003 ->
IBIZA IV, V	2002 ->	EOS 1.4 TSI	2008 ->		



Reemplaza / Suitable:	
VW	038 906 051 B
	03G 906 051 D
Ford	1136735

KPa

20

254

mV

390

4700



15038

AUDI		SKODA		VOLKSWAGEN Cont.	
A2 1.4	2000-05	FABIA 1.0, 1.4	1999-08	POLO 120 1.6 16V GTI	1998-99
SEAT		FELICIA I 1.6	1995 ->	POLO 75 1.6	1994-99
AROSA 1.0, 1.4	1997-04	FELICIA II 1.6	1998-01	POLO CLASSIC 75 1.4 16V	1999-01
CORDOBA 1.4, 1.6	1999 ->	OCTAVIA 1.6	1996 ->	POLO CLASSIC 75 1.6	1995-01
IBIZA III 1.4, 1.6	1999-02	VOLKSWAGEN		POLO Sedan 1.4	2003 ->
IBIZA IV 1.4, 1.6	2002 ->	BORA 1.4, 1.6	2000-05	POLO Variant 1.4 16V	1999-01
INCA 1.4 16V	2000-03	CADDY II 1.6	1995-00	POLO Variant 1.6	1997-01
LEON 1.4, 1.6	1999-06	GOLF III 1.6	1992-97		
TOLEDO II 1.4, 1.6	1999-06	GOLF IV 1.4, 1.6	1997-06		
		LUPO 1.0, 1.4, 1.6	1998-05		
		POLO 1.4, 1.6	1999-08		
		POLO 100 1.4 16V	1996-99		



Reemplaza / Suitable:	
Skoda	036 906 051
Seat	027 998 041 1
VW	036 906 051 D
	036 998 041 1

KPa

15

120

mV

330

4775



15039

FORD		FORD Cont.		JAGUAR	
C-MAX 1.6	2007 ->	FOCUS II Cabriolet 1.6	2006 ->	S-TYPE R 4,2 V8	2002 ->
FIESTA V 1.25 16V	2002 ->	FOCUS II Sedan 1.4	2005 ->	XF 4.2 Kompressor	2008 ->
FIESTA V 1.3	2001 ->	FOCUS II Sedan 1.6	2005 ->	XJ R 4.2	2003 ->
FIESTA V 1.4 16V	2001 ->	FOCUS II Sedan 1.6 Ti	2005 ->	MAZDA	
FIESTA V 1.6 16V	2001 ->	FOCUS II Turnier 1.4	2004 ->	2 1.25	2003 ->
FIESTA Van 1.3	2003 ->	FOCUS II Turnier 1.6	2004 ->	2 1.4	2003 ->
FIESTA VI 1.4	2008 ->	FOCUS II Turnier 1.6 Ti	2004 ->	2 1.6	2003 ->
FIESTA VI 1.6 Ti	2008 ->	FUSION 1.25	2004 ->	VOLVO	
FOCUS C-MAX 1.6	2003-07	FUSION 1.4, 1.6	2002 ->	C30 1.6	2006 ->
FOCUS C-MAX 1.6 Ti	2004-07	KA 1.3 i, 1.6 i	1996-08	S40 II 1.6	2005 ->
FOCUS II 1.4, 1.6	2004 ->	STREET KA 1.6	2003-05	V50 1.6	2005 ->
FOCUS II 1.6 Ti	2004 ->				



Reemplaza / Suitable:	
Ford	1141598
	2S6A-9F479-BA
	1490907
Jaguar	AJ8 12337
	AJ8 5329
Mazda	C201-18-211A
Volvo	30711659

KPa

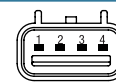
10

120

mV

410

4860



15040

CITROËN		DAIHATSU		TOYOTA	
C1 1.0	2005 ->	Cuore VIII 1.0	2007 ->	AYGO 1.0	2005 ->
		Sirion 1.0	2005 ->	IQ 1.0	2009 ->
		PEUGEOT		PRIUS 1.8	2009 ->
		107 1.0	2005 ->	YARIS 1.0 WT-i	2006 ->



Reemplaza / Suitable:	
Peugeot	1920.KN
Toyota	89421-52010
Daihatsu	89421-52010

KPa

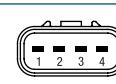
10

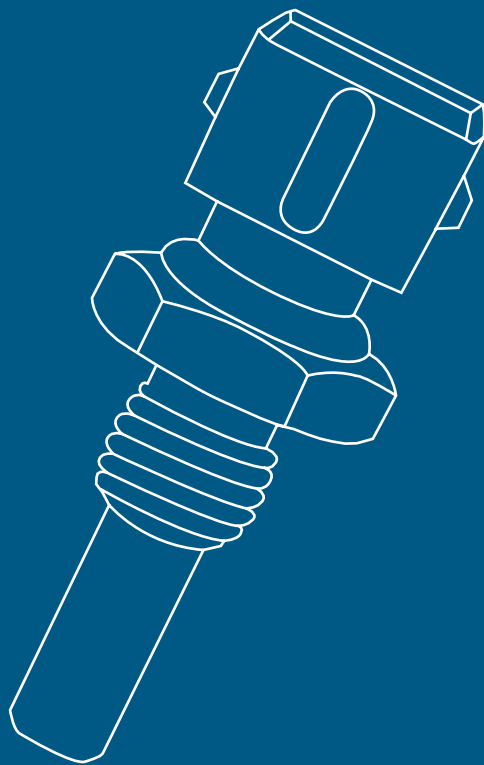
138

mV

900

4685





SENSORES

SENSORS

SENSEURS



INFORMACIÓN TÉCNICA

SENSORES DE TEMPERATURA

Los sensores de temperatura del vehículo son unos componentes que juegan un papel muy importante en el control de emisiones contaminantes y consumo de combustible. Su lectura, junto a la de otros sensores, hacen que la unidad de control parametrize las condiciones del sistema de inyección.

La medición de la temperatura en los automóviles se efectúa normalmente mediante sensores fabricados con materiales resistivos de coeficientes de temperatura positivos (PTC) o negativos (NTC). Estos elementos sensibles, conocidos como Termistor, nos dan una respuesta en forma de resistencia, la cual en función de si es una PTC o una NTC se comportará de una manera u otra. La PTC (de coeficiente de temperatura positivo) a medida que la temperatura sube, su resistencia aumenta, mientras que la NTC (de coeficiente de temperatura negativo) es todo lo contrario, a mayor temperatura, menor resistencia.

Existen diferentes tipos de sensores dentro de la amplia gama FAE.

Se pueden agrupar en los siguientes:

1-Sensores de temperatura del líquido refrigerante

2-Sensores de temperatura del aire de admisión

3-Sensores de temperatura exterior



1-Sensores de temperatura del líquido refrigerante

Su función es medir la temperatura del líquido refrigerante del motor.

Están montados en el conducto del circuito de refrigeración y su lectura es enviada directamente a la unidad de control.

Los rangos de temperatura de funcionamiento van de los -40°C a los $+130^{\circ}\text{C}$

2-Sensores de temperatura de aire de admisión

Este sensor montado en el tramo de admisión registra la temperatura del aire aspirado con la que es posible calcular, en combinación con un sensor de presión de sobrealimentación, la masa de aire aspirada. Además de ello se pueden adaptar valores teóricos para circuitos reguladores (por ejemplo realimentación de gases de escape, regulación de la presión de sobrealimentación) a la temperatura del aire.

Los rangos de temperatura de funcionamiento van de los -40°C a los $+120^{\circ}\text{C}$

3-Sensores de temperatura exterior

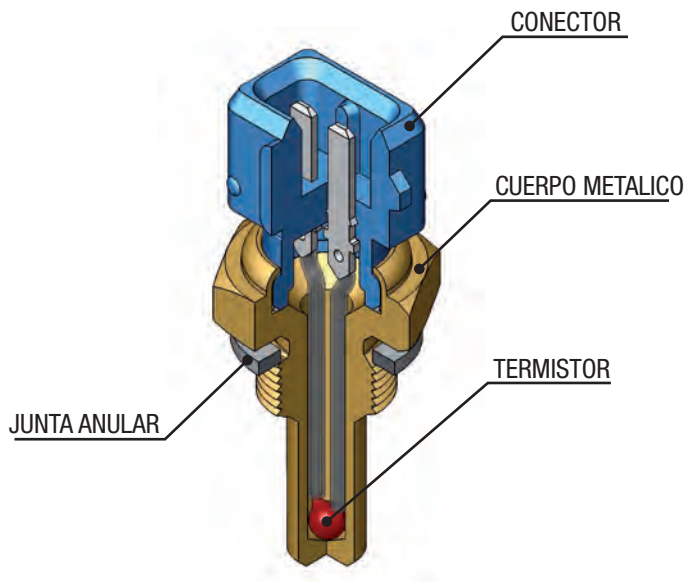
Su función es informar de la temperatura exterior del vehículo. Al igual que el resto de sensores de temperatura, la lectura es enviada a la unidad de control, donde junto a la lectura de otros sensores sirve para la gestión de la inyección.

PRINCIPIO DE FUNCIONAMIENTO

Los sensores FAE se basan en un termistor insertado en uno de los extremos de un cuerpo metálico, ya sea cilíndrico o hexagonal.

Ese extremo es el que estará en contacto con el líquido refrigerante (roscado o insertado en el sistema de refrigeración del vehículo) o con el aire y será el encargado de leer la temperatura y enviar la información a la unidad de control.

La zona de conexión de los sensores suele ser de material plástico, y se adaptan a los diferentes conectores para cubrir así la gran mayoría de vehículos del mercado. Una junta anular de metal o de goma, garantiza la hermeticidad entre el sensor y el bloque motor.





INFORMACIÓN TÉCNICA

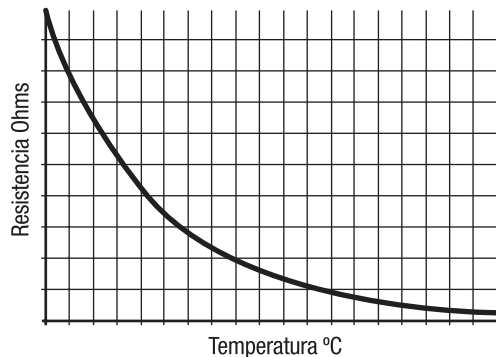
PRINCIPIO DE FUNCIONAMIENTO

Las resistencias NTC (Negative Temperature Coefficient), también llamadas Termistores NTC, son resistencias cuyo coeficiente de temperatura es negativo, es decir que el valor óhmico de su resistencia depende de la temperatura. Las resistencias NTC se fabrican a partir de óxidos semiconductores de los metales, tales como el óxido férrico (Fe2O3) sustituyendo algunos de sus iones de hierro por los de titanio.

· Para obtener una representación gráfica necesitamos aplicar la siguiente ecuación:

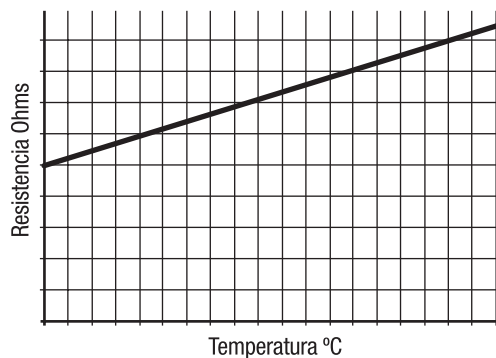
$$R_T = R_{25} \exp \left\{ B \left(\frac{1}{T + 273,15} - \frac{1}{25 + 273,15} \right) \right\} (\Omega)$$

R _T	Resistencia a la temperatura	Ω
R ₂₅	Resistencia a 25°	Ω
B	Constante del material (Beta)	
T	Temperatura	(°C)



Un termistor PTC (Positive Temperature Coefficient) es una resistencia variable cuyo valor se ve aumentado a medida que aumenta la temperatura.

Los materiales iniciales usados son molidos, mezclados con aditivos cerámicos, prensados en moldes y sinterizados. Su representación gráfica es, a diferencia de las NTC, lineal con lo que veríamos este resultado:



INSTRUCCIONES DE MONTAJE

El par de apriete de los sensores de temperatura es de 30÷50 Nm.

Sustituya la junta de estanqueidad cada vez que cambie un sensor. Las juntas no realizan su función de hermeticidad si están usadas o desgastadas.

ASPECTOS VISUALES Y CAUSAS DE FALLO EN LOS SENSORES

Debe verificarse el cuerpo metálico, el conector y los cables asegurándose de su buen estado.

Compruebe también si el sensor muestra alguna grieta, abolladura o golpe que pudiera haberlo dañado.

Hay que tener en cuenta que, como norma general, una inspección visual no es suficiente para poder asegurar el buen o mal funcionamiento de la pieza, pero ayuda a realizar un primer diagnóstico.

- 1- Grietas o roturas. Tensiones provocadas por estrés mecánico.
- 2- Deformaciones y abolladuras. Sobre calentamiento del sensor
- 3- Fugas. Mal anclaje al bloque motor o desgaste de la junta de estanqueidad.
- 4- Sin señal. Rotura del cable por fricción o exceso de vibración, cortocircuitos, roturas internas del sensor por estrés mecánico o térmico.

SÍNTOMAS DE FALLO DE LOS SENSORES

- Alto consumo de combustible
- Pérdida de potencia
- Sobrecalentamiento
- Encendido del testigo de luz Check Engine
- Dificultades en el arranque.
- Incremento de las emisiones contaminantes

MANTENIMIENTO DE LOS SENSORES

Revisar en cada mantenimiento o cada 25000Km los valores específicos de los sensores. Recuerde que los líquidos refrigerantes pueden ocasionar corrosión e incapacitar la respuesta de los sensores. En el caso de los sensores de aire, las impurezas podrían obstruir las ventanas de los conductos y hacer que el sensor no pueda realizar las lecturas. Reemplazar cuando las comprobaciones de funcionamiento no estén dentro de los valores límite especificados.



TECHNICAL INFORMATION

TEMPERATURE SENSORS

Temperature sensors of the vehicle are components that play an important role in controlling emissions and fuel consumption. Together with other sensors, the reading makes the ECU parameterize the conditions of the injection system.

Temperature measurement in cars is normally done by resistive sensors which consist of positive (PTC) or negative temperature coefficients (NTC). These sensitive elements, known as thermistors, are thermally sensitive resistors whose prime function is to exhibit a large, predictable and precise change in electrical resistance when subjected to a corresponding change in body temperature. PTC thermistors exhibit an increase in electrical resistance when subjected to an increase in body temperature. NTC thermistors on the contrary exhibit a decrease in electrical resistance when subjected to an increase in body temperature.

There are different types of sensors within the wide range of FAE which can be divided as follows:

1-Refrigerant Temperature Sensors

2-Intake air temperature sensors

3-Outdoor temperature sensors.



1-Refrigerant Temperature Sensors

Its function is to measure the temperature of the engine refrigerant.

These sensors are mounted through the cooling circuit and its reading is sent directly to the control unit.

The operating temperature range is from -40°C to $+130^{\circ}\text{C}$

2-Intake air temperature sensors

This sensor mounted on the inlet section records the temperature of intake air with which it is possible to calculate, in combination with a boost pressure sensor, air mass aspirated. Moreover theoretical values can be adapted for regulatory circuits (eg exhaust gas feedback, regulating the boost pressure) to air temperature.

The operating temperature range is from -40°C to $+120^{\circ}\text{C}$

3-Outdoor temperature sensors

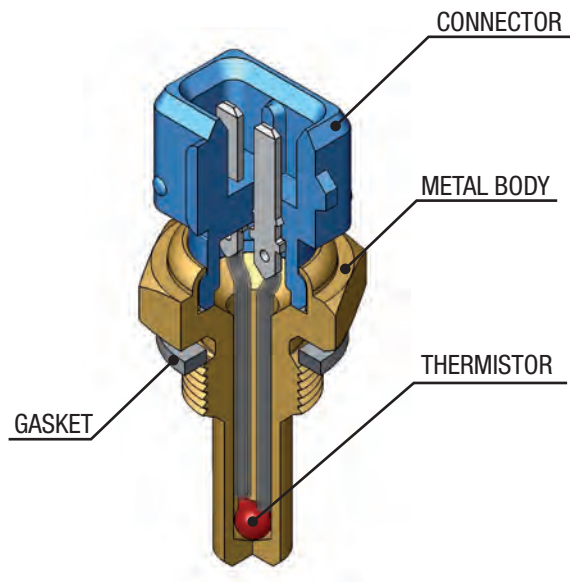
Its function is to read the outside temperature of the vehicle. Like the other temperature sensors, the reading is sent to the control unit, where together with the reading of other sensors injection is managed.

OPERATION PRINCIPLES

FAE sensors are based on a thermistor inserted at one end of a metal body, either cylindrical or hexagonal.

It is this end that comes into contact with the refrigerant (threaded or inserted directly into the cooling system of the vehicle) or with the air and will be responsible for displaying temperature and send the information to the ECU of the vehicle.

The connecting part of the sensors is usually made of plastic. It fits to the different connectors which cover the vast majority of vehicles on the market. A metal or rubber gasket ensures the tightness between the sensor and the engine block.





TECHNICAL INFORMATION

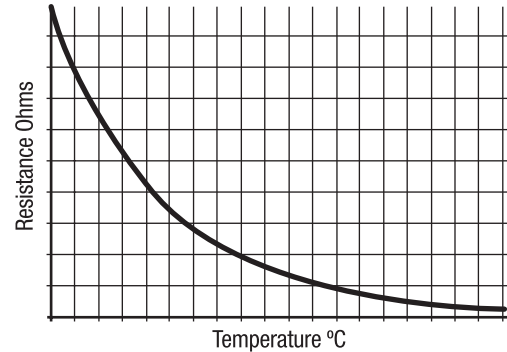
OPERATION PRINCIPLES

Negative Temperature Coefficient thermistors (NTC thermistors) are resistors whose temperature coefficient is negative, i.e. the value of the resistance depends on the temperature. NTC thermistors are made from semiconducting metal oxides such as ferric oxide (Fe_2O_3) by substituting some of its iron ions by titanium.

For graphical representation we need to apply the following equation:

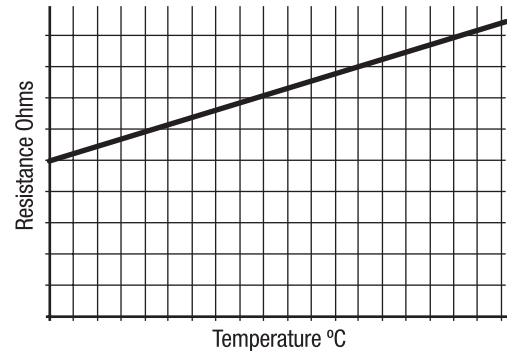
$$R_T = R_{25} \exp \left\{ B \left(\frac{1}{T + 273,15} - \frac{1}{25 + 273,15} \right) \right\} (\Omega)$$

R_T	Temperature resistance	Ω
R_{25}	Resistance a 25°	Ω
B	Material constant (Beta)	
T	Temperature	(°C)



Positive Temperature Coefficient Thermistors (PTC) exhibit an increase in electrical resistance when subjected to an increase in body temperature.

The initial materials used are milled, mixed with ceramic additives, pressed into moulds and sintered. Its graphical linear representation, unlike the NTC, is to be found on below chart:



ASSEMBLING INSTRUCTIONS

The torque of the sensor temperature is $30 \div 50 \text{ Nm}$.

Replace the gasket each time the sensor is changed. The gaskets do not perform their sealing function if these are used or worn.

VISUAL ASPECTS AND CAUSES OF FAILURE OF SENSORS

The good condition of the metal body, the connector and wires must be checked and ensured.

Also verify if the sensor shows any cracks, dents or impacts that might have damaged it.

Keep in mind that, as a general rule, visual inspection is not sufficient to ensure the good or bad performance of the part, but it helps to make an initial diagnosis.

1-Cracks or breaks. Tensions provoked by mechanical stress.

2-Deformations and dents. Overheated sensor.

3-Leaks. Bad anchored sensor to the engine block or a worn out seal.

4-No signal. Failure of the wire due to friction or excessive vibration, short circuit, internal failure of the sensor due to mechanical or thermal stress.

SIGNS OF FAILURE OF SENSORS

- High fuel consumption.
- Power loss.
- Overheating.
- Warning light Engine Check.
- Difficulties starting the engine.
- Increased emissions.

MANTENIMIENTO DE LOS SENSORES

Revisar en cada mantenimiento o cada 25000Km los valores específicos de los sensores. Recuerde que los líquidos refrigerantes pueden ocasionar corrosión e incapacitar la respuesta de los sensores. En el caso de los sensores de aire, las impurezas podrían obstruir las ventanas de los conductos y hacer que el sensor no pueda realizar las lecturas. Reemplazar cuando las comprobaciones de funcionamiento no estén dentro de los valores límite especificados.

INFORMATION TECHNIQUE

TEMPERATURE SENSORS

Les contacteurs de températures d'un véhicule sont des composants qui ont un rôle très important dans le contrôle de la pollution et de la consommation de carburant. La prise en compte de ces informations, associée aux autres contacteurs, permettent au calculateur de paramétrer les données du système d'injection.

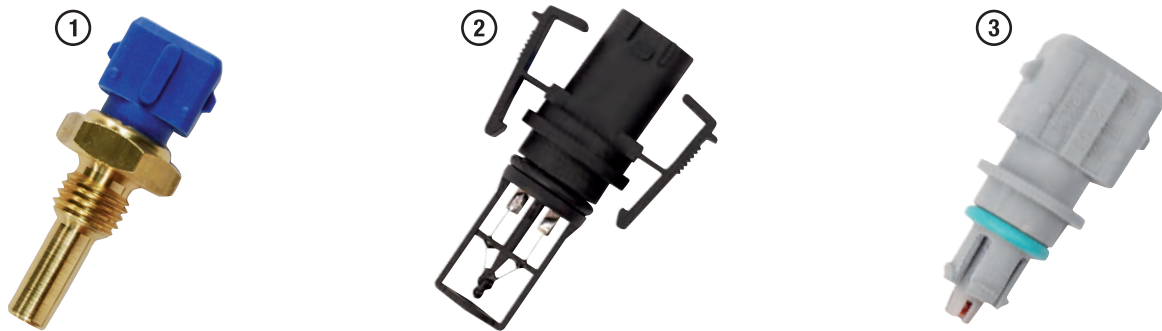
La mesure de la température dans les automobiles est normalement effectuée au moyen de contacteurs fabriqués avec des composants résistifs de coefficients positifs de température (PTC) ou négatifs (NTC). Ces éléments sensibles, connus comme Thermisteur, nous donnent une information sous la forme de résistance ; laquelle se comportera d'une manière ou d'une autre si c'est une PTC ou une NTC. La PTC (coefficient positif), au fur et à mesure que la température monte, sa résistance augmente : à l'inverse, la NTC (coefficient négatif de température) quand la température monte, la résistance baisse.

Il existent différents types de contacteurs dans la gamme très large de FAE. On peut les regrouper comme suivants :

1- Contacteurs de température du liquide réfrigérant

2- Contacteurs de température d'admission d'air

3- Contacteurs de température extérieure



1- Contacteurs de température du liquide réfrigérant

Sa fonction est de mesurer la température du liquide de refroidissement du moteur.

Ils sont montés dans le conduit du circuit de réfrigération et la lecture est directement envoyée à l'unité de contrôle. L'amplitude de température de fonctionnement varie de -40°C à $+130^{\circ}\text{C}$.

2- Contacteurs de température d'admission d'air

Ce contacteur monté sur le conduit d'admission d'air enregistre la température de l'air aspiré ; il est alors possible de calculer, en combinaison avec un capteur de pression de sur alimentation, la masse d'air aspirée. En plus, il est possible d'adapter des valeurs théoriques pour les circuits régulateurs (par exemple une réalimentation des gaz d'échappement, une régulation de la pression de sur alimentation) à la température de l'air.

L'amplitude de température de fonctionnement varie de -40°C à $+120^{\circ}\text{C}$

3- Contacteurs de température extérieure

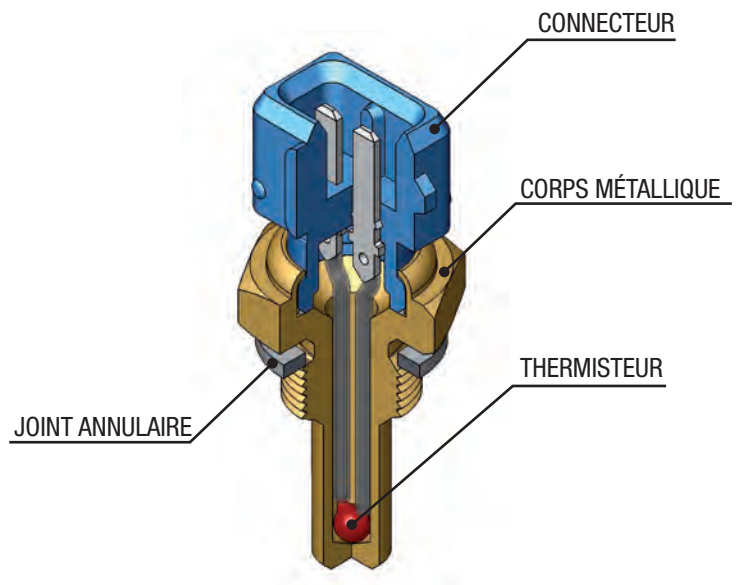
Sa fonction est de donner la température extérieure. Comme pour les autres contacteurs de température, la lecture est envoyé à l'unité de contrôle, qui avec l'aide d'autres capteurs, sert à la gestion de l'injection.

FONCTIONNEMENT

Les Contacteurs FAE sont intégrés sur un thermisteur inséré dans l'une des extrémités d'un corps métallique, cylindrique ou hexagonal.

Cette extrémité sera en contact avec le liquide réfrigérant (vissé ou inséré dans le système de réfrigération du véhicule) ou avec l'air et il sera chargé de lire la température et d'envoyer l'information à l'unité de contrôle.

Les connexions des Contacteurs ont l'habitude d'être en matière plastique, et s'adaptent aux différents types de connecteurs pour couvrir ainsi la grande majorité de véhicules du marché. Un joint annulaire ou en caoutchouc garantit l'étanchéité entre le Contacteur et le bloc moteur.





INFORMATION TECHNIQUE

FONCTIONNEMENT

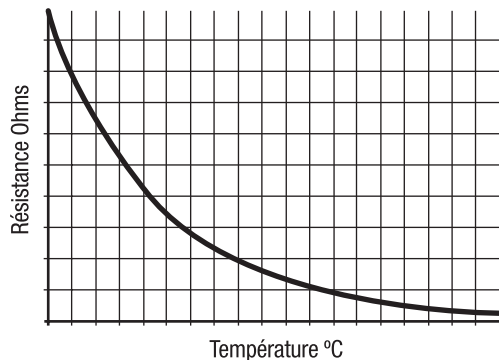
Les résistances NTC (Negative Temperature Coefficient), également appelée Thermisteurs NTC, sont des résistances dont le coefficient de température est négatif c'est-à-dire que la valeur ohmique de sa résistance dépend de la température.

Les résistances NTC sont fabriquées parmi des semi-conducteurs d'oxydes métalliques, comme l'oxyde ferrique (Fe_2O_3) en substituant certains de ses ions de fer par ceux du titane.

Pour obtenir une représentation graphique nous avons besoin d'appliquer l'équation suivante :

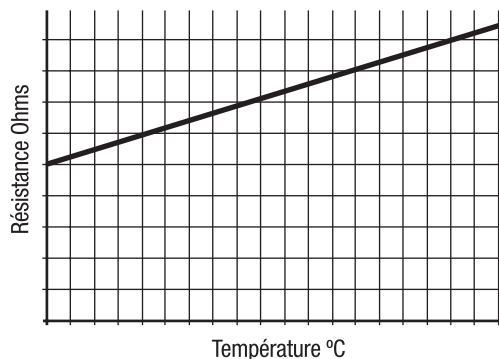
$$R_T = R_{25} \exp \left\{ B \left(\frac{1}{T + 273,15} - \frac{1}{25 + 273,15} \right) \right\} (\Omega)$$

R_T	Résistance a la température	Ω
R_{25}	Résistance a 25°	Ω
B	Constante du matériel (Beta)	
T	Température	(°C)



Un thermisteur PTC (Positive Temperature Coefficient) est une résistance variable dont la valeur augmente au fur et à mesure que la température augmente.

Les matériaux initiaux utilisés sont broyés, mélangés avec des additifs céramiques, pressés dans des moules et frittage successif. Sa représentation graphique est, au contraire des NTC, linéaire dont nous verrions ce résultat :



INSTRUCTIONS DE MONTAGE

Le couple de serrage des contacteurs de température est de $30 \div 50 \text{ Nm}$.

Changez les joints d'étanchéité chaque fois que vous changez un contacteur. Les joints ne réalisent pas leur fonction d'étanchéité s'ils sont réutilisés ou usés.

ASPECTS VISUELS ET CAUSES DE DEFAILLANCES DES CONTACTEURS

On doit vérifier le corps métallique, le connecteur et les câbles en s'assurant leur bon état.

Vérifiez également si le contacteur montre une crevasse, un bosselage ou un quelconque coup qui pourrait avoir l'abîmé.

Naturellement, une inspection visuelle n'est pas suffisante pour pouvoir s'assurer du bon ou mauvais fonctionnement de la pièce, mais il permet de réaliser un premier diagnostic.

1-Crevasses ou ruptures : Tensions provoquées par un stress mécanique.

2-Déformations et bosselages : Une surchauffe du contacteur.

3-Fuites : Une mauvaise fixation au bloc moteur ou usure des pièces d'étanchéité.

Rupture du câble par friction ou excès de vibration, courts-circuits, ruptures internes du contacteur par un stress mécanique ou thermique.

SYMPTÔMES DE FAILLANCE DES CONTACTEURS

- Forte consommation de carburant
- Perte de puissance
- Surchauffe
- Allumage du témoin de lumière Check Engine
- Difficultés au démarrage
- Augmentation des émissions polluantes

MAINTENANCE DES CONTACTEURS

Contrôler à chaque révision ou tous les 25000Km les valeurs spécifiques des contacteurs. Rappeler que les liquides réfrigérants peuvent occasionner une corrosion et perturber les signaux des contacteurs. Dans le cas des contacteurs d'air, les impuretés peuvent obstruer les fenêtres des conduits et empêcher les contacteurs de réaliser les lectures. Remplacer quand les données de fonctionnement ne sont pas conformes aux valeurs spécifiées.



REF. FAE

COLOR / COLOUR / COULEUR

FABRICANTE	MAKER	CONSTRUCTEUR
Modelos	Model	Modèle
Años	Year	Année

CONEXIÓN
CONNECTION
CONNEXION

Reemplaza/Suitable/Rem-
place:
Cruce de Referencias.
Cross References
Tableau des equivalences

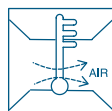
FIJACIÓN
THREAD
FIXATIONESQUEMA
SCHEME
SCHEMA

—

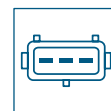
SIMBOLOS - SYMBOLS - SYMBOLES



Sensores
Sensors
Senseurs



Sensores de aire
Air Sensors
Senseur d'air



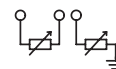
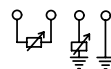
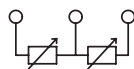
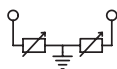
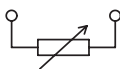
Tipo de conexión
Type of connection
Type de connexion

ESQUEMA ELÉCTRICO / ELECTRICAL SCHEME / SCHEMA ELECTRIQUE

NTC

(Coficiencia de temperatura Negativo)
(Negative Temperature Coefficient)
(Coefficient négatif de température)

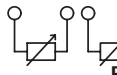
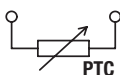
NTC Resistencia NTC variable entre los enchufes (masa aislada)
NTC Variable resistance between terminals (insulated ground)
NTC Résistance NTC variable entre les connexions (masse isolée)



PTC

(Coeficiente de temperatura positivo)
(Positive Temperature Coefficient)
(Coefficient positif de température)

Resistencia PTC variable entre los enchufes (masa aislada)
PTC Variable resistance between terminals (insulated ground)
Résistance PTC variable entre les connexions (masse isolée)



FIJACIÓN Y ROSCA / THREAD AND LODGE / FIXATION ET FILET

CILINDRICA
CYLINDRICAL
CYLINDRIQUE



CONICA
CONICAL
CONIQUE



DIAMETRO
DIAMETER
DIAMETRE



Los modelos de vehículos se dan como información general. No se deben utilizar como guía detallada de aplicaciones.

Vehicles models for general information only. Not to be used as a detailed applications guide.

Les modèles de véhicules sont présentés à titre d'information générale uniquement. Le document ne constitue pas un guide pratique et ne doit pas être utilisé comme tel.

Para identificar un Sensor de Presión Absoluta de un modelo específico, consultar Aplicaciones por Vehículos. Las piezas contenidas en este Catálogo, pueden estar sujetas a modificaciones dimensionales o de material, sin previo aviso.

Refer to Vehicle Applications to trace the Map Sensor of a specific model. The parts shown in this Catalogue, are subject to modification in design or material without notice.

Pour trouver un modèle spécifique d'un Capteur de Pression consulter les Applications par Vehicules. Les pièces contenues dans ce Catalogue, peuvent être modifiées en matériel ou exécution sans préavis.



33002

Aislante azul / Blue colour

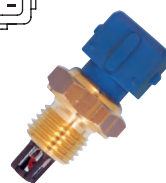
VOLKSWAGEN MEXICO

Sedan 1.6

1993-01



Reemplaza / Suitable:



14x1,5



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33010

Aislante azul / Blue colour

ALFA ROMEO	FORD	PEUGEOT Cont.
Alfa 33 Injection 1990-95	Transit 2000-06	305 Injection (XU9J) 1986-88
Alfa 75 2.0 i Twin Spark 1987-92	HONDA	306 1.1 i, 1.4 i, 1.6 i 1993-97
Alfa 145/146 1.7 i 16V 1994-96	Accord VII 1998-02	309 Injection 1986-93
Alfa 155 Injection 1992-96	Civic V 2.0 TDiC 1998-01	405 Injection 1987-93
Alfa 164 Injection 1987-92	HYUNDAI	505 GTI, STI, Inj., Turbo 1984-91
RZ, SZ, 3.0 i V6 1989-93	Accent 1.3 i, 1.5 i 1998-00	605 2.0 SRI, SVI 1990-91
Spider 2.0 i 16V TS 1995-98	Coupe 1.6, 2.0 1990-02	PORSCHE
BMW	Lantra II 1996-00	911 3.3 i, 3.6 i 1990-94
316 i, 318 i, 318 is 16V 1987-98	INNOCENTI	924 S, 924 2.5 i 1983-88
320 i, 323 i, 6 cil. 1984-88	Elba 1.4 i, 1.6 i, SPI 1993-98	944 2.5 i, 2.7 i, 3.0 i 1981-91
320 i 24V, Cabrio, Coupe 1990-99	ISUZU	959 2.8 i 1986-88
325 i 24V, Coupe 1990-99	Amigo 2.3 i, 2.6 i 1988-96	RENAULT
325 E, 325 i, Cabrio 1985-90	Rodeo 2.6 i 1990-94	Laguna 1.8 i MPI (F3P-678) 1995-98
518 i, Touring 1989-91	Trooper II 2.6 i 1987-91	R-25 Injection 1984-92
520 i 24V, Touring 1990-97	IVECO	ROLLS ROYCE
525 i, ix, Touring 1991-97	Daily 35-10 1989-98	Corniche, Turbo R, 6.8 i 1993 ->
530 i Motronic 1987-97	LANCIA	ROVER
535 i Motronic 1986-91	Dedra 1.8 i.e. 1989-91	220 Turbo D 1995-98
728 i, is, 730, 732, 733 i 1978-85	Kappa 1994-96	420 SDI, SLDI, GSDI 1996-98
735 i, IL, 745 i 1986-91	Thema 2.0 ie, Turbo ie 1985-94	620 2.0 Turbo D 1993-96
M 3, Coupe 1992-95	Y 10 Injection 1988-95	SAAB
M 5 1989-95	LAND ROVER	900, 9000, Turbo 16 1984-89
Z 1 1988-91	Defender 2.5 TDI 1990-00	900 2.5 V6i (B258) 1994-98
CITROEN	Discovery 2.5 TDI 1989-00	9000 2.0 i 16V, Turbo 1990-96
AX 11 i, 14 i, Monopoint 1993-98	Freelander 2.0 DI 1998-00	9000 2.3 i 16V, Turbo 1990-96
BX 19 GTI, TZI, GTI 16V 1986-93	OPEL	SEAT
C 15 E 1.4 i Monopoint 1995-98	Ascona Injection 1979-88	Ibiza Injection 1987-92
CX 25 Inj., Turbo 1983-89	Astra except Diesel 1992-05	Malaga Injection 1987-92
Jumpy 1580 SPI 1995-98	Calibra 1989-96	Toledo 1.9 TDI 90 cv. 1995-96
Visa 1.6 GTI 1985-89	Combo 1.4 i Multipoint 1993-01	SKODA
XM 2.0 i, 3.0 i V6 1989-93	Corsa A 1.6 GSI 1988-93	Favorit 1.3 i 1989-94
ZX Injection Monopoint 1991-96	Corsa B Injection 1993-00	Felicia 1.3 i (135i, 136i) 1995-98
FERRARI	Frontera 2.0 i, 2.2 i, 2.4 i 1992-98	Pick-up 1.3 i (135i, 136i) 1995-98
348 3.4 i 1990-94	Kadett 1.8 i, 2.0 GSI, 16V 1977-91	TOYOTA
FIAT	Manta B, Monza A 1977-88	Avensis 1.6, 1.6 16V 1997-00
Barchetta 1.8 i 16V 1995-00	Omega 1.8 i, 2.0 i 1986-94	Carina E 1.6, 1.6 16V 1994-97
Brava / Bravo 1.4 i 12V. 1995-98	Omega B 2.5 i, 3.0 i V6 1994-01	VOLKSWAGEN
Croma 1985-96	Rekord E, Senator A 1978-86	Caddy II 1.6 1996-00
Fiorino 1.4, 1.6 i, SPI 1993-98	Senator B 2.5 i, 3.0 i 1988-93	Caravelle 2.0 i Digifant 1991-98
Marea 2.0 i 20V, 2.4 TD 1996-00	Sintra 2.2 GLS, 3.0 GLS 1996-98	Golf 1.9 D, Turbo D 1992-98
Panda 1.0 i, 1.1 i, Fire 1986-91	Tigra 1.4 i 16V, 1.6 i 16V 1993-98	Vento 1.9 D, Turbo D 1992-98
Punto 1.4 GT Turbo 1993-97	Vectra 4WD 1988-96	Transporter Type 2, Inj. 1984-90
Scudo 1.6 1996-98	Vectra B Injection 1996-02	VOLVO
Tempra 1.8 i.e. 1990-96	PEUGEOT	340, 360, Inj. 1982-91
Tipo DGT, 1.8 i.e. 16V 1988-92	106 Injection Monopoint 1991-96	740 2.3, 2.3 i 1984-90
UNO Turbo i.e. 1301 1985-93	205 1.6 GTI, 1.9 GTI 1983-93	760 Turbo B23ET 1983-84

33020

Aislante blanco / White colour

ALFA ROMEO	FIAT	NISSAN
Alfa 6 2.5 i 1983-87	124 2000 Spider Europa 1979-86	Bluebird (530, 810, 910) 1979-86
Alfa 75 1.8 ie 1988-92	132 2000 1979-82	Bluebird 1.8 i Turbo (T12) 1986-88
Alfa 75 2.5i V6 1985-87	Argenta 2000 IE 1981-86	Bluebird 2.0 Diesel (LD20) 1986-90
Alfa 90 2.0i V6 1984-87	Regatta 75 i.e., 100 S i.e. 1985-90	Laurel 2.4 SGLi 1984-90
Alfetta 2.0i 1983-85	Ritmo / Strada 75 IE 1985-88	Patrol GR (RD28T) 1988-91
GTV 6 2.5i E 1980-87	UNO 75 i.e. 1985-93	Pick-up Diesel, Turbo D 1985-90
BMW	FORD	Primera 2.0 D (CD20) 1991-93
318, 318 i 1975-91	Maverick 2.7 Turbo D 1993-96	Sunny (N13) 1.6 i 1985-87
320 i, 323 i, 6 cil. 1982-84	LANCIA	Sunny 1.7 D, 2.0 D 1986-92
320 IC 1983-84	Beta / Trevi 2000 i.e. 1979-85	Terrano TD27T (WD21) 1989-93
518 i 1981-88	Gamma 2500 i.e., Coupé 1986-89	Terrano II 2.7 Turbo D 1993-96
520 i, 525 i 1981-91	Prisma 1.6 ie, 2.0 ie 4WD 1985-89	OPEL
528 i 1977-87	MOTOR IBERICA	Ascona B 1.9 E 1976-81
M 5 1981-87	L-45.08 (BD-30) 1993-96	Kadett C 1.9 GTE 1975-77
628, 633, 635, CSI 1978-88	M-115.17 (FE6-B) 1993-96	Manta A, B, 1.9 GTE 1974-77
728 i, 732 i 1977-85	M-130.17, M-140.17 1987-96	RENAULT
733 i, 735 i, 745 i 1977-85	Patrol 6 cil. D, Turbo D 1985-93	Alpine V6 Turbo 1985-88
3.0 Si, 3.3 i-L 1975-77	Trade 2.0 D (LD20E-II) 1986-96	Fuego/R18 Injection, Turbo 1983-87
CITROEN	Vanette 2.0 Diesel 1987-96	R-25 V6 i, V6 i Turbo 1984-92
CX 2400 Inj. 1977-84		SKODA
		Favorit 1.3 1990-94

33030

Aislante blanco / White colour

AUDI	BMW	SEAT
90 2.0 20V, 2.3 20 V 1988-91	Serie 7 (E32) 1988-92	Toledo 1.6 i, 1.8 i, GT 16V 1991-96
100 2.5 TDI (AAT) 1990-94	730 i, 735 i, IL 1988-91	Toledo 2.0 i GT 16V 1996-98
A 6 2.5 TDI 115/140 cv. 1994-97	730 i V8, 740 i V8 1992 ->	VOLKSWAGEN
A 8 3.7 i V8, 4.2 i V8 1994-98	750 i V12 1988-94	Golf Syncro GT 1988-92
Coupé 20 V 1989-94	840 Ci (M60) 1993 ->	Golf / Jetta 1.8 Digifant 1988-92
Quattro 2.2 1984-94	850 i, Ci, CSI, (M70) 1993 ->	Golf / Jetta GTI (Japón) 1987-92
RS2 2.2 i Turbo 20V 1994-98	FORD	Golf 2.0 GTI 16V (ABF) 1992-98
S 6 2.2 i Turbo 20V 1995-98	Escort RS Turbo (CVH) 1984-90	Passat 2.2 115 CV 1984-88
V8 3.6 i, 4.2 i 1988-93		



Reemplaza / Suitable:



12x1,5



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Reemplaza / Suitable:



14x1,5



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Audi-Seat-VW 035 919 369 M
BMW 12 621 288 158
Bosch 0280 130 037
Ford 1626473
Mercedes 004 153 16 28
004 153 25 28
Volvo 1275494



33035

Aislante negro / Black colour

MERCEDES BENZ

Clase A	2004 ->
Clase C	1994-00
Clase CL. CLK	1997-00
Clase E	1995-00
Clase G	1996-00
Clase M, ML	1998-05
Clase S	1993-98
Clase SL. SLK	1995-98
Clase V	1997-00

MERCEDES COMM.

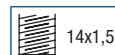
Sprinter	1995-00
Unimog	1996 ->
Vario	1996 ->
Viano	2003 ->
Vito	1999 ->

PUCH

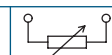
G 290 TD	
G 300 TD	

SMART

Forfour 1.5 CDI	2004 ->
Fortwo Cabrio 0.8 CDI	2007 ->
Fortwo Coupe 0.8 CDI	2007 ->



14x1,5



Reemplaza / Suitable:

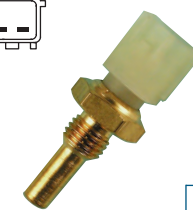
Mercedes	000 542 62 18
	005 153 23 28
	005 153 63 28
Smart	0051532328
	0051536328

33040

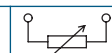
Aislante blanco / White colour

NISSAN

Serena 2.0 Diesel	1992-98
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12x1,5



Reemplaza / Suitable:

Nissan	22630-D9701
	22630-D9702

 Motores/Engines/Moteurs:
 LD 20.

33050

Aislante negro / Black colour

AUSTIN

Maestro 1.3, Van, 1.6	1983-89
Metro 1.4 GTI MPI/SPI	1990-94
Montego 1.3, 1.6	1984-89
Montego 2.0, 2.0 EFI	1985-92

LEYLAND-DAF

Series 200 2.0	1989-96
Series 300 3.0	1989-96
Series 400 2.0	1989-96

M.G.

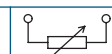
Maestro 2.0 EFI	1984-89
Montego 2.0 EFI	1984-89
Montego 2.0 Turbo	1985-89

ROVER

114 1.4 S, SL, GS	1990-94
214 1.4 i, 1.4 i 16V	1989-95
216, S, SE, Vitesse, EFI	1985-89
414 1.4 i, 1.4 i 16V	1990-96
820 E, SE	1986-88
820 i, SL Multipoint	1986-90
820 2.0 i 16V (T16)	1991-96



5/8x18 UNF



Reemplaza / Suitable:

Land Rover	RTC 5522
Rover Group	ADU 7161
	GTR 134

33060

Aislante blanco / White colour

JEEP

Cherokee 4.0 i (XJ)	1992-98
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OPEL

Movano	1998-01
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RENAULT

Alpine 2.5 i, 2.85 i, 3.0 i	1985-90
Clio Injection	1990 ->
Espace 2.0 i, 2.2 i, 2.85 V6	1991-96
Espace 2.2 TD (G8T-716)	1997-00
Espace 3.0 i V6	1997-00

RENAULT Cont.

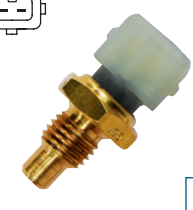
Laguna	1994-00
Megane Injection	1996-99
R-19 1.7 16V, 1.8 i	1988-97
R-21. R-25. Injection	1987-94
Safrane 2.0 i, 2.2 i, V6 i	1992-97
Safrane 2.2 DT (G8T)	1997-00
Scenic 1.4 i, 1.6 i, 2.0 i	1993 ->
Twingo	1996-00

RENAULT COMM.

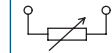
Express 1.4, 1.4 i, Break	1991-97
Master Injection	1989-97
Master 2.5 D, 2.8 dti	1998-00
Trafic 2.2 i (J7T)	1991-00

VOLVO

440 1.6, 1.7, 1.8, 2.0	1988-96
460 1.6, 1.7, 1.8, 2.0	1989-96
480 1.7 (B18FP)	1989-92



12x1,5



Reemplaza / Suitable:

G.M.	9109810
Opel	4401810
Renault	77 00 737 571
	77 00 869 343
Volvo	3344169
	3345511

33065

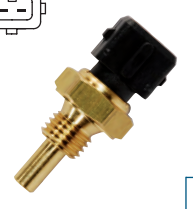
Aislante negro / Black colour

ALFA ROMEO

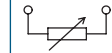
145 1.4 ie	1994-96
146 1.4 ie	1994-96
33 1.4 ie	1991-94

FIAT

Palio 1.2	1998-01
Palio 1.2 Weekend	1996-01
Palio 75 1.2i Weekend	1997-01
Punto 75 1.2	1994-99
Siena 1.2	1998-01
Siena 1.2i	1998-01



12x1,5



Reemplaza / Suitable:

Alfa Romeo	46449499
	60576529
Fiat	46449499
	60809565

33070

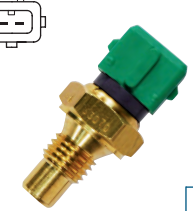
Aislante verde, Aro violeta / Green colour, Violet ring

CITROEN

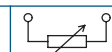
AX 1.1 i 1124 cc.	1992-96
AX GTI 1360 cc.	1991-96
XM 2.0i Monopoint XT	1990-94
XM 2.0 i (XU10J2)	1994-96
XM 2.0 i 16V	1994-96
XM 3.0 V6, 3.0 V6 24V	1994-96
ZX 1.4 i Monopoint	1992-93
ZX 1.6 i, 1.9 i	1991-93

PEUGEOT

106 1.1 i, 1.3 i, 1.3 XSI	1991-96
205 1.2 i, 1.4 i. Monopoint	1989-94
306 1.1 i XN, XA	1994-97
306 1.4 i XN, XR, XA, XRA	1993-97
309 1.6 i (XU5M)	1991-93
405 1.6 GLI (XU5M)	1993-95
605 2.0 i SLI 110 cv.	1990-94
605 2.0 i SRI, SVI	1991-96
605 SR30, SV30, SV24	1990-96



12x1,5



Reemplaza / Suitable:

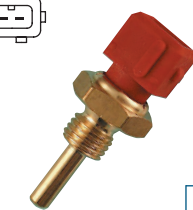
Citroën	95.640.493
Peugeot	1920.C4

33080

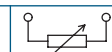
Aislante rojo / Red colour

NISSAN

Primera (PE10) 2.0 i	1990-93
Primera 2.0 i (SR20DI)	1990-93
Primera 2.0 i GT (SR20DE)	1990-93



12x1,5



Reemplaza / Suitable:

Bosch	0 280 130 057
	0 280 130 063
	0 280 130 064
	0 280 130 065
Chrysler	5226504
Nissan	22630-70J00
	22630-V9400

33090

Aislante negro / Black colour

ALFA ROMEO

Alfa 75 1.8 ie Turbo	1988-92
Alfa 155 2.5 i V6	1992-97
Alfa 164 V6	1987-92

BMW

Motocicletas / Motorcycles

FERRARI

Testarossa 4.9 i	1986-91
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HYUNDAI

Sonata 3.0	1990-92
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PEUGEOT

Astra 2.0 i, 2.0 i GSI 16V	1991-95
Omega 3000 GSI	1987-94
Senator A. Senator B	1983-93

PORSCHE

928 S	1983-93
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ROLSS ROYCE

Mulsanne 6.8 i	1986-90
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SAAB

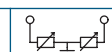
9000 2.0i, 2.3i. 16V (TCS)	1990-96
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VOLVO

440. 460. 480	1988-96
740 2.0 i, 2.3i, Turbo	1984-90
760 2.3 i Turbo, 2.8i V6	1984-90
780 2.0 i Turbo, 2.8i V6	1987-90
940 2.0 i, 2.3i, Turbo	1990-96
940 2.8 i (B280E, F)	1990-96
960 2.0 i, 2.0 i Turbo	1990-96
960 2.3 i, 2.3 i Turbo	1990-96
960 2.9 i 24V (B6304F)	1990-96



12x1,5



Reemplaza / Suitable:

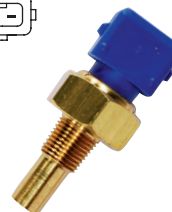
Alfa Romeo	60800522
Bosch	0280 130 032
G.M.	90183892
Opel	1338446
	1338452
Porsche	92860612600
Volvo	1346030-8
	3433477-1



33100

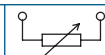
Aislante azul / Blue colour

FORD	
Fiesta Furgon 1.3	1996-02
Fiesta IV 1.3 i	1995-02
FSD 42S 2.4 D	1991-98
FSD 42S 2.5 D	1991-98
Transit 2.5 Diesel	1985-91
Transit 2.5 D (D25N)	1992-98
Transit 2.5 Turbo D	1992-98



Reemplaza / Suitable:

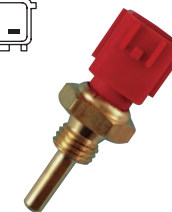
Ford	1008790
	6635175
	7165944
	91AB-10884-BB
	92VB-10884-AA
	96FB-10884-AA
	F5RZ-10884-A

1/8x27
NPTF

33110

Aislante rojo / Red colour

FORD		INFINITI		NISSAN	
Maverick 2.7 Turbo D	1993-98	Q45 4.5	1989-95	Maxima 3.0 i V6	1994-98
				Micra 1.0 e (CG10DE)	1992-98
				Micra 1.3 e (CG13DE)	1992-98
				Primera 1.6 i (GA16DE)	1993-96
				Primera 2.0 i (SR20DE)	1993-96
				Primera 2.0 Diesel (CD20)	1993-96
				Serena 1.6 i (GA16DE)	1992-98
				Serena 2.0 i (SR20DE)	1992-98

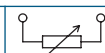


Reemplaza / Suitable:

Bosch	0 280 130 071
	0 280 130 072
Nissan	22630-44B10
	22630-71L00
	22630-99B00
	22630-99B10



12x1,5



33120

Aislante verde, Aro amarillo / Green colour, Yellow ring

CITROEN		CHRYSLER		PEUGEOT	
Berlingo 1.8 i (XU7JB)	1997-00	Voyager 2.5 Turbo D	1991-95	106 1.1 i, 1.4 i, 1.6 i	1996-98
Evasion 1.8 i, 2.0 i	1994-98	FIAT		306 1.8 i, 2.0 i, 16V	1993-98
Jumper 2.0 i, 2.5 D, 2.5 TD	1994-98	Ducato 2.0	1994-02	405 1.8 i, 2.0 i	1993-95
Saxo 1.6 i VTL, VTR	1997-04	Scudo 1.6	1996-00	406	1996-98
Xantia Injection	1993-98	Ulysse 2.0 i S, EL	1994-98	605 2.0 i 16V, Turbo D	1994-96
XM 2.0 i 16V (XU10J4R)	1994-96	LANCIA		806 1.8 i, 2.0 i	1994-02
XM 2.5 Turbo D (DK5ATE)	1994-96	Zeta 2.0 16V	1998-00	Boxer	1994-02
XSara Injection	1997-00	OPEL		Expert 1.8 i (Xu7JP)	1996-00
ZX	1992-96	Omega B 2.5 Turbo D	1994-98	Partner. Ranch.	1996-97



Reemplaza / Suitable:

Bosch	0 280 130 084
Citroën	96.131.470
Fiat	9613147080
Peugeot	1920.K9



12x1,5



33130

Aislante blanco / White colour

FORD		NISSAN		NISSAN Cont.	
Maverick 2.4 i	1993-98	100 NX	1990-94	Patrol GR 2.4 i	1991-97
KIA		200 SX	1988-99	Pick-up 2.4 i, 3.0 i	1988-96
Carnival 2.5 V6, 2.9 TD	1999-01	300 ZX	1990-95	Prairie 2.0i SLX	1988-94
Clarus 1.8i 16V, 2.0i 16V	1996 ->	Altima 2.4 i	1992-94	Primera	1990-96
Pride	1991 ->	Axxess 2.4 i	1989-94	Pulsar (USA)	1988-94
Retona	1999 ->	Bluebird	1986-90	Quest 3.0 i V6	1992-94
Sephia	1995 ->	Laurel 2.4	1985-90	Sunny	1988-95
Shuma	1996-01	Maxima VG30E (Europa)	1989-96	Terrano II 2.4 i	1993-96
Sportage	1994-03	Pathfinder (USA)	1989-97	Vanette 2.4 i	1986-95

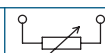


Reemplaza / Suitable:

Ford	1953327
Kia	0K011-18-840
	0K95B-18-840
	K857-18-840
Nissan	22630-51E00
	22630-51E10
	22630-D5900
	22630-V5010



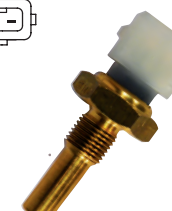
12x1,5



33140

Aislante blanco / White colour

AUDI		SEAT		VOLKSWAGEN	
80 1.8 S, E, 2.0 E	1988-91	Cordoba 2.0 i 16V	1996-99	Caddy 1.8i K-Jetronic	1985-92
80 Motronic	1992-94	Ibiza 2.0 i 16V	1996-99	Golf/Jetta 1.6, 1.8, 1.8 i	1985-92
90 2.0 E, 2.2 Quattro	1987-91	Toledo 1.6 i 90 CV	1991-96	Golf Rallye, G 60, 16V	1987-92
100	1988-91			Passat/Santana 1.8 90 CV	1984-88
100 Motronic	1992-94			Passat 1.6 Monojetronic	1988-90
A 4 2.6 i V6, 2.8 i V6	1995-98			Passat 2.0 i 16V	1988-93
A 6 2.6 i V6, 2.8 i V6	1994-97			Scirocco 1.8 i 16V	1986-90
Coupé Injection	1985-90				
Coupe 2.6 i V6, 2.8 i V6	1991-98				

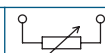


Reemplaza / Suitable:

Audi-Seat-VW	026 906 161
Bosch	0 280 130 040
	0 280 130 041



10x1



33145

Aislante negro / Black colour

AUDI		SKODA		VOLKSWAGEN	
A4 2.5 TDI	1997-06	SuperB 2.5 TDI	2002-08	Passat 2.5 TDI	1998-05
A4 2.5 TDI Quattro	1997-04			Passat 2.5 TDI 4Motion	2000-05
A4 Avant 2.5 TDI	1997-05			Passat 2.5 TDI Syncro	1998-00
A4 Cabriolet 2.5 TDI	2002-05			Passat Variant 2.5 TDI	1998-00
A6 2.5 TDI	1997-05				
A6 2.5 TDI Quattro	1997-05				
A6 Avant 2.5 TDI	1998-05				
A8 2.5 TDI, Quattro	1997-02				
Allroad 2.5 TDI Quattro	2000-05				

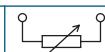


Reemplaza / Suitable:

Audi-VW	059 919 563
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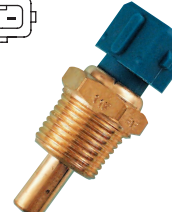
10x1



33150

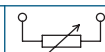
Aislante azul / Blue colour

FIAT		LANCIA	
Tempra 1.4 i, S, SX, SLX	1993-96	Dedra 1.6 ie, Cat.	1989-94
Tipo 1.4 i Pop, S, SX	1993-96	Dedra 1.8 ie Cat.	1989-94
Tipo 1.6 i S, SX	1993-96	Delta 1.4 i SPI	1993-96
UNO 70 ie 1372 cc.	1989-93	Delta 1.6 i SPI, LE	1993-96
UNO Turbo ie 1372 cc.	1989-93		



Reemplaza / Suitable:

Bosch	0280 130 066
Fiat	7669143

18x1,5
con

Sustituye original color gris.
Replaces original grey.
Remplace original couleur gris.

33155

Aislante negro / Black colour

BMW		BMW Cont.		LAND ROVER	
Serie 1, Cabrio	2004 ->	Serie 6	2004 ->	Discovery 4.0 V8	1998 ->
135i Coupe	2007 ->	Serie 6 Cabrio	2004 ->	Freelander	2000 ->
Serie 3	1998 ->	Serie 7	1996 ->	MG	
Serie 3 Cabriolet	2000 ->	Serie X3	2004 ->	MG TF. ZR. ZS. ZT	2001 ->
Serie 3 Compact	2001-05	Serie X5	2000 ->	MGF	1995-02
Serie 3 Coupe	1999 ->	Serie X6	2008 ->	ROVER	
Serie 3 Touring	2000 ->	Serie Z3	1997-03	Serie 200	1996-00
Serie 5	1996 ->	Serie Z4	2003 ->	Serie 400	1995-00
Serie 5 Touring	1997 ->	Serie Z4 Coupe	2006 ->	Serie 25. 45. 75	1999 ->



Reemplaza / Suitable:

BMW	13621433076
	23017838935
Land Rover	MEK000030L
	MEK100170L
	MEK500130
Rover	MEK 000030
	MEK 100170
	NSC 100870



12x1,5





33160

Aislante negro / Black colour

BMW		LAND ROVER		SEAT	
166 2.0 V6	1998-00	Discovery 2.5 TDI	1989-95	Cordoba 1.6 i (AFT)	1996-99
33 1.7 i.e.	1992-94	Range Rover 2.5 TDS	1992-95	Ibiza 1.6 i (AFT)	1996-99
BMW		OPEL		TOLEDO 1.6 i (AFT)	1996-99
Serie 3	1990-95	Calibra 2.0 i Turbo, 34x4	1989-96	VOLKSWAGEN	
325 TD, TDS	1990-93	Vectra 2.0 i 16V	1989-96	Corrado 2.9 VR6 (ABV)	1991-96
Serie 5	1990-95	PORSCHE		Golf / Vento 2.8 VR6 (AAA)	1992-98
524 TD, TDS	1988-93	928	1983-91	Passat 2.8 VR6 (AAA)	1991-93
HONDA		ROVER		Sharan	1995-00
Accord 2.0 D	1995-02	200. 400. 600 Diesel	1993-99		

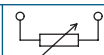


Reemplaza / Suitable:

BMW	13 621 711 371
Bosch	0280 130 039
Fiat	46433052
G.M	90423088
Opel	90423088
Porsche	92860614300
Rover	ERR 2082
Seat-VW	046 905 379



12x1,5



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33165

Aislante negro / Black colour

BMW		BMW Cont.		BMW Cont.	
320i (E36)	1990-98	525i, IX, 24V (E34)	1989-95	M3 3.0, Coupe, Cabrio	1994-95
320i Cabrio (E36)	1994-99	525i, ix, Touring, (E34)	1992-97	M3 3.2, Coupe, Cabrio	1992-98
320i Coupe (E36)	1992-99	730 i, il (E38)	1995-01	Z3 Coupe 3.2	1998-01
320i Touring (E36)	1995-99	740 i, il, (E38)	1995-01	Z3 M Cabrio 3.2	1997-01
325i (E36)	1990-95	750 i, il, V12 (E32)	1987-94		
325i Cabrio (E36)	1993-95	840 i (E31)	1993-96		
325i Coupe (E36)	1992-99	850 i, Cl. (E31)	1990-94		
520i 24V (E34)	1989-95	850 CSI (E31)	1993-96		
520i Touring (E34)	1992-97				

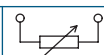


Reemplaza / Suitable:

BMW 13 621 725 323



12x1,5



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33166

Aislante negro / Black colour

BMW		LAND ROVER	
318 tds (E36)	1995-98	Freelander 2.0 Td4	2000-07
320 d, Touring, (E46)	2000-01	ROVER	
325 td (E36)	1991-98	75 2.0 CDT, Tourer	1999-05
325 tds (E36)	1993-98		
325 Touring tds (E36)	1995-99		
525 td (E34)	1993-95		
525 Touring td (E34)	1993-97		
525 tds (E34)	1991-95		
525 Touring tds (E34)	1991-97		

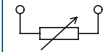


Reemplaza / Suitable:

BMW	13 622 243 946
Land Rover	NSC 50050
Rover	NNK 000050



12x1,5



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33167

Aislante negro / Black colour

BMW		BMW Cont.		LAND ROVER	
120i, 130 i	2004 ->	Serie 7 (E38)	1995-01	Freelander 2.5 V6	2000-05
Serie 3 (E36)	1990-98	Serie 7 (E65,E66)	2002-07	Range Rover MKIII 3.0 TD	2002 ->
Serie 3 (E46)	1998-05	M5 (E39)	1998-03		
Serie 3 (E90)	2005 ->	X3	2004-06		
Serie 5 (E39)	1995-03	X5	2000-07		
Serie 5 (E60)	2003 ->	Z4	2003-07		
645 Ci, Cabriolet	2004 ->	Z8	2000-03		
650i, Cabriolet	2005-07				
Serie 6 M6	2006-07				

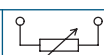


Reemplaza / Suitable:

BMW	13 621 433 077
	13 627 788 077
Land Rover	MEK105210
	NSC000100



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33168

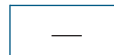
Aislante negro / Black colour

BMW		BMW Cont.		BMW Cont.	
318 is, 318 ti Compact (E36)	1995-98	520 i, Touring (E39)	1996-03	850 Ci (E31)	1994-99
318 Tds, Touring (E36)	1995-98	523 i, Touring (E39)	1996-00	X3 2.5 i, 3.0 i	2004-06
320 i, Coupe (E36)	1990-00	528 i, Touring (E39)	1996-00	X5 3.0 i	2000-07
320 i, 320 Ci (E46)	2000-05	535 i (E39)	1996-99	Z3 1.9	1995-99
323 i, 323 ti Compact (E36)	1995-98	540 i, Touring (E39)	1996-03	Z3 2.0	1999-00
323 i, 323 Ci (E46)	1998-00	728 i, iL (E38)	1995-01	Z3 2.2	2000-03
328 i, Coupe (E36)	1995-98	735 i, iL (E38)	1996-01	Z3 2.8, Coupe	1997-00
328 i, 328 Ci (E46)	1998-00	740 i, iL (E38)	1996-01	Z3 3.0, coupe	2000-03
330 i, 330 Ci (E46)	2000-05	750 i, iL (E38)	1995-01		

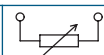


Reemplaza / Suitable:

BMW	13 621 739 510
Land Rover	1739510
	NNK000020



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33170

Aislante blanco / White colour

CHEVROLET / DAEWOO		RENAULT		VOLVO	
Aveo 1.2	2008 ->	Clio 16V (F7P)	1991-96	S40 1.9 T4	1997-00
Kalos 1.2	2003 ->	Espace V6 (Z7W)	1991-96	S40 2.0 T, T4	1997-03
Lacetti 1.4 16V, 1.6	2004 ->	Laguna	1994-98	V40 1.9 T4	1997-00
Matiz	1998 ->	Master 2.0 T35 (J5R)	1981-96	V40 20 T, T4	1997-04
Nubira 1.6	1997 ->	R-19 1.4 i (E7J-707)	1988-97		
Spark	2005 ->	R-21 TXI, GTI, (J7R)	1987-94		
Tacuma	2000 ->	R-25	1987-92		
		Safrane	1992-97		
		Trafic 2.0	1985-88		

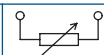


Reemplaza / Suitable:

Daewoo	96253552
	96279856
G.M.	96279856
Renault	77 00 737 572
Volvo	30865366



14x1,5



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33175

Aislante negro / Black colour

HYUNDAI		HYUNDAI Cont.		KIA Cont.	
Accent 1.3, 1.5	1994-00	Tucson 2.7 Allrad	2004 ->	Retona 2.0 TD	1999 ->
Coupe 2.7 V6	2002 ->	XG 25	1998 ->	Sephia 1.5, 1.8	1995 ->
H100 Bus 2.5 TD	1993-00	KIA		Shuma 1.5, 1.8	1996-04
Lantra II 1.5 12V	1996 ->	Carens I 1.8 i	2000-02	Sportage 2.0, 2.7	1997 ->
Pony 1.5 i	1989-95	Carnival 2.5 V6	1999-01		
Pony/Excel Sedan 1.5 i	1990-95	Carnival II 2.5 V6	2001 ->		
Santa Fé 2.7 V6 4x4	2001 ->	Joice 2.0	2000 ->		
Sonata III, IV	1998-04	Magnetis 2.5 V6	2001 ->		
Trajet 2.7 V6	2000 ->	Pride 1.3 16V	1990 ->		

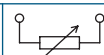


Reemplaza / Suitable:

Hyundai	39340-24760
	39340-24765
	39340-37100
Kia	0K2AB 18831
	0K9BV18831
	KK371 18831



14x1,5



33180

Aislante gris, Aro blanco / Grey colour, White ring

CITROEN		PEUGEOT		PEUGEOT Cont.	
AX GTI, GTI Top Ten	1991-96	106 XSI, Rallye	1991-96	405 1.9 i (XU9J2 D6D)	1991-93
BX 19 GTI, TZI, 4x4	1989-93	106 1.6 i (TU5JP, TU5J2)	1994-96	405 2.0 i (XU10J2C)	1993-95
Evasion 2.1 Turbo D	1997-00	106 1.6 i 16V (TU5J4)	1993-96	605 2.0 i SLI 110 cv.	1990-94
Saxo 1.6 i, 1.6 i 16V	1996-03	205 1.6 i GTI, 1.9 GTI	1989-94	605 2.0 i SRI, SVI	1990-91
Xantia 2.1 Turbo D	1995-00	306 1.6 i XR, XS, XT	1993-97	605 3.0 V6, 3.0 V6 24V	1990-94
XM 2.0 i, 16V, 3.0 V6	1989-96	309 1.6 i, 1.9 GTI	1989-93	605 Automatics	1990-96
XSara 1.6 i (TU5JP)	1997-05	405 1.6 GLI (XU5M)	1991-93		
ZX 1.6i (XU5M) ->PR-6015	1991-93	405 1.6 i GL, GR, SR, Break	1993-95		
ZX 1.9 i Volcane	1991-92	405 1.8 i (XU7JP)	1993-95		

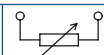


Reemplaza / Suitable:

Citroën	95.640.497
Peugeot	1920.C5



12x1,5



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33185

Aislante gris / Grey colour

CITROEN	FIAT	PEUGEOT
Evasion	Ducato 2.0	106 I 1.3
Jumper	Ulysse 1.8, 2.0	306
Xantia		405
XSara		406
ZX		Boxer

Cable 180 mm.



Reemplaza / Suitable:
PSA 1920.T0

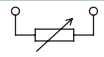
33190

Aislante verde, Aro gris / Green colour, Grey ring

CITROEN	CITROEN COMM.	PEUGEOT
AX 15 D, TD	C 15 D PR-6744->	106 1.5 D CEE 19.5
Berlingo 1.8 D, 1.9 D	Jumper D, TD	306 1.7 D, 1.9 D
Evasion 1.9 TD, 2.1 TD	FIAT	406 1.9 SD, 1.9 TD, 2.1 TD
Saxo 1.5 Diesel	Scudo 1.9 D, TD	605 2.1 SRDT, SLDT, SVDT
Xantia 1.9 TD, 2.1 TD	Ulysse 1.9 TD, 2.1 TD	Boxer 1.9 D (XUD9AU)
XM 2.1 D, Turbo D	LANCIA	Expert. Partner. Ranch
XSara 1.9 Turbo D	Zeta 2.1 Turbo D 12V	ROVER
ZX 1.8 D, 1.9 D, Turbo D	NISSAN	115 1.5 Diesel
	Micra 1.5 D	



Reemplaza / Suitable:
Citroën 96.185.725.80
Fiat 9618572580
Nissan 25080-1F600
PSA 1338.47
Rover 1338.78
GTR205



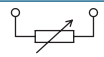
33200

Aislante azul / Blue colour

ALFA ROMEO	FIAT	FORD
155 2.0 Turbo 16V Q4	Cinquecento Inj. SPI	Escort VI RS Cosworth
AUDI	Coupé 2.0 i 16V, Turbo	IVECO
A 6 2.6 i V6, 2.8 i V6	Croma	Daily
CITROEN	Palio	LANCIA
Jumper 2.8 HDI	Panda Inj. SPI	Dedra Injection
	Punto	Delta Injection
	Siena 1.4 i	Kappa
FERRARI	Tipo 1.8 ie, 2.0 ie 16V	Thema 8.32, 2.5 Turbo D
F-40 3.0		MASERATI
INNOCENTI		



Reemplaza / Suitable:
Alfa Romeo 60806379
60813751
Fiat 46477022
4850371
Ford 1639283
V86HF12A648AA
Peugeot 1338.A5
VW 026 906 161 12



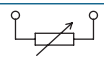
33220

Aislante negro / Black colour

ALFA ROMEO	FIAT Cont.	LANCIA
155 2.0 Turbo 16V Q4	Croma	Dedra Injection
ASTON MARTIN	Marea 1.6 i 16V	Delta Injection
Virage 32V	Panda Inj. SPI	Kappa 20 V 5 cil.
FERRARI	Punto. Tipo	Thema 8.32
F-40 3.0	FORD	Thema 2.5 Turbo DS
FIAT	Escort RS Cosworth 4x4	MASERATI
Bravo / Brava 1.8 MPI	Sierra	2000 24V. 228 2.8
Cinquecento Inj. SPI	INNOCENTI	Biturbo. Biturbo 2.0, 2.5
Coupé 2.0 i 16V, Turbo	Mille 1.0 i SPI	Ghibbli. Shamal



Reemplaza / Suitable:
Alfa Romeo 60806471
Fiat 7547976
Ford 1639284
V86HF12697AA



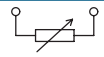
33221

Aislante negro / Black colour

ALFA ROMEO	FIAT	OPEL
145 1.4 ie 16V T.S.	Brava 1.9 TD 100 S	Astra F 2.0 i, Cabrio, SW
145 1.6 ie, 1.6 ie 16V T.S.	Bravo 1.9 TD 100 S	Astra F 2.0 i 16V, GSi 16V
145 1.7 ie 16V	Bravo 2.0 HGT 20V	Calibra A 2.0 i 16V, 4x4
145 1.8 ie 16V T.S.	Coupe 2.0 20V	Omega B 2.0, SW
145 2.0 16V T.S.	Marea 1.9 TD 100, Weekend	Omega B 2.5 V6, SW
146 1.4 ie 16V T.S.	Marea 2.0 150 20V	Omega B 3.0 V6, SW
146 1.6 ie 16V T.S.	Marea 2.0 155 20V	Sintra 2.2 i 16V
146 1.7 ie 16V	Marea 2.4 JTD 130	Vectra A 2.0, 2.0 i 16V 4x4
146 1.8 ie 16V T.S.	Marea 2.4 TD 125, Weekend	Vectra A 2.5 V6
146 2.0 16V T.S.	HONDA	Vectra B 2.0 Di 16V
155 1.6 16V T.S.	Accord VII 1.6 i	Vectra B 2.0 i
155 1.7 T.S. 16V	LANCIA	Vectra B 2.5 i V6
155 2.0 T.S. 16V	Kappa 2.0 20V, Coupé, SW	PORSCHE
156 1.6 16V T.S., SW	Kappa 2.4 20V, Coupé, SW	911 3.6 Carrera, Carrera 4
164 3.0 24V Q4, QV	Kappa 3.0 20V, Coupé, SW	911 3.6 Carrera 4S, S
GTV 2.0 16V T.S.	NISSAN	911 3.6 GT3
GTV 3.0 V6 24V	Micra 1.0 i 16V	911 Targa 3.6
Spider 2.0 T.S. 16V	Micra 1.3 i 16V	Boxer 2.5, 2.7, 3.2
Spider 3.0 V6	Primera 1.6 i	SAAB
	Primera 2.0 GT	900 II 2.5 24 V6
	Primera 2.0 i	VAUXHALL



Reemplaza / Suitable:
Alfa Romeo 60591909
60813345
Fiat 7763719
8024226
Ford 95VW12A697-CA
G.M. 90442182
Honda 37880-PDF-E00
37880-PDF-E01
GM 90442182
Opel 836401
Porsche 993 606 113 00
Saab 42 39 067
VW 6W0 906 061



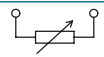
33222

Aislante negro / Black colour

HONDA	OPEL	PORSCHE
Accord VII 1.6 i	Omega B 2.5 V6	911 3.4 Carrera, Carrera 4
Accord VII 1.8 i	Omega B 3.0 V6	911 3.6 Carrera, Carrera 4
Accord VII 2.0 i	Sintra 2.2i 16V	911 3.6 Carrera 4S, S
Accord VII 2.2 Type R	Sintra 3.0i 24V	911 3.6 GT3
	Vectra B 2.5 i V6	911 Targa 3.6
		Boxer 2.5, 2.7, 3.2
		SAAB
		900 II 2.5 24 V6
		VAUXHALL



Reemplaza / Suitable:
Bosch 0280 130 092
G.M. 90541590
Honda 37880-PDF-E11
Porsche 996 606 113 00
Scania 4660593



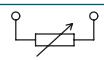
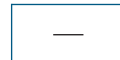
33224

Aislante gris / Grey colour

FORD	FORD Cont.	FORD USA
Cougar 2.5 V6 24V	Focus 1.8 TDCi 115 cv.	Windstar 3.0 V6
Fiesta 1.3 Van	Focus 1.8 Turbo Di/TDDi	MAZDA
Fiesta IV 1.25 i 16V	KA 1.3 i 49 cv.	121 III 1.25
Fiesta IV 1.3 i 50 cv.	KA 1.3 i 50/60 cv.	121 III 1.3 50 cv.
Fiesta IV 1.3 i 60 cv.	Mondeo I 2.5 i 24V	121 III 1.3 60 cv.
Fiesta IV 1.4 i 16V	Mondeo II 2.5 24V, ST 200	
Fiesta IV 1.6 16V Sport	Transit Connect 1.8 Di	
Focus 1.8 Di/TDDi 75 cv.	Tourneo Connect 1.8 Di	
Focus 1.8 TDCi 100 cv.	Tourneo 1.8 Turbo Di	



Reemplaza / Suitable:
Ford 3477940
F5AF-12A697
Mazda 1E03-18-845

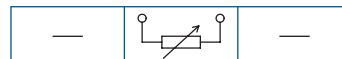




33225

Aislante negro / Black colour

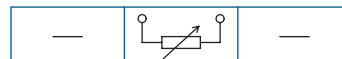
OPEL		OPEL		OPEL Cont.	
145 1.4 ie, 1.6 ie	1994-96	Astra F 1.4i, 1.6i	1991-98	Meriva 1.6, 1.6 16V	2003 ->
146 1.4 ie, 1.6 ie	1994-96	Astra G 1.4i 16V (X14XE)	1998-05	Tigra 1.4i, 1.6i	1994-00
CHEVROLET		Astra G 1.6i (C16SEL)	1998-04	Vectra B 1.6 i 16V	1995-02
Cruze 1.8	2009 ->	Astra G 1.6i 16V (Z16XE)	1998-05	Vectra C 1.6, 1.6 16V	2004 ->
		Combo 1.2, 1.4	1994-01	Zafira 1.6 16V, CNG	1999-05
		Combo Tour	2001 ->	Zafira 1.6, 1.8	2006 ->
		Corsa B	1993-00		
		Corsa C 1.4, 1.4 i	2000-05	VAUXHALL	
		Corsa D 1.0, 1.2, 1.4	2006 ->		


Reemplaza / Suitable:
Alfa Romeo 60606033
Chevrolet 12129596
G.M 12129596
Opel 1238079


33226

Aislante negro / Black colour

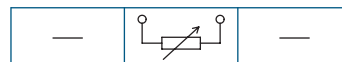
AUDI		SEAT		VOLKSWAGEN	
A3 1.6	1996-00	Alhambra 1.8 T 20V	1997-00	Bora 1.8 T	2000-02
A3 1.8, 1.8 T, Quattro	1996-03	Cordoba 1.8 T 20V Cupra	1999-00	Bora 2.3 V5	1998-99
A3 S3 Quattro	1999-02	Ibiza III 1.8 T 20V Cupra	2000-02	Golf IV 1.6 16V, Variant	2000-01
A4 1.6, Avant	1995-99	Leon 1.8 20V T, T4	2000-04	Golf IV 1.8, 1.8 4Motion	1997-00
A4 1.8, 1.8 T, Avant, Quattro	1995-00	Leon 1.8 T Cupra R	2002-06	Golf IV 1.8 T, GTi	1997-02
A4 2.4, Avant, Quattro	1997-00	Toledo II 1.8 20V T	2001-02	Golf IV 2.3 V5, 4Motion	1997-00
A4 2.8, Avant, Quattro	1996-00	Toledo II 2.3 V5	1999-00	New Beetle 1.8 T	1999-02
A4 S4, Avant, Quattro	1997-00	SKODA		Passat 1.6, Variant	1996-00
A6 1.8, 1.8 T, Avant, Quattro	1996-01	Octavia 1.6, Combi	1996-97	Passat 1.8, 1.8 T, Syncro	1996-00
A6 2.4, Avant, Quattro	1997-04	Octavia 1.8, Combi	1996-99	Passat 1.8 T, 1.8 T 20V	2000-05
A6 2.7 T, Avant, Quattro	1999-04	Octavia 1.8 T, Combi	1997-02	Passat 2.3 VR5, Variant	1998-00
A6 2.8, Avant, Quattro	1997-01	Octavia 1.8 T 4x4, Combi	2001-02	Passat 2.8 V6, 4Motion	1996-00
TT 1.8 T, Quattro, Roadster	1999-06	Octavia RS 1.8 T	2001-02	Passat 2.8 4Motion	2000-05
PORSCHE		SuperB 1.8 T	2001-02	Sharan 1.8 T 20V	1997-00
911 3.6 Turbo 4	1995-97	SuperB 2.8 V6	2001-02		
911 3.6 Turbo GT2, GT2 4	1995-97				


Reemplaza / Suitable:
Audi-Seat-VW 058 905 379
Bosch 0280 130 085
Porsche 993 606 114 00


33227

Aislante negro / Black colour

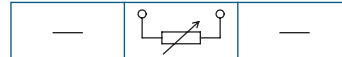
AUDI		SEAT		VOLKSWAGEN	
A3 FSI, TFSI	2003 ->	Altea 2.0 FSI, TFSI	2004 ->	Bora/Golf IV/Passat 1.8 T	1997-04
A4 1.8T, 2.0, 2.4	2000-04	Altea XL 2.0 FSI, TFSI	2007 ->	EOS FSI, TFSI	2006 ->
A4 TFSI, Avant, Cabrio	2005 ->	Ibiza IV 1.8 T	2004-08	Golf V FSI, Variant	2005 ->
A5 TFSI, Cabrio, Sportback	2008 ->	Leon FSI, TFSI, TSI	2005 ->	Jetta III FSI	2005 ->
A6 1.8T, 2.4, Avant	1997-05	Toledo III FSI, TFSI	2005 ->	New Beetle 1.8 T	2000-05
A6 2.0 TFSI	2005 ->	SKODA		Passat FSI, TFSI	2005 ->
Allroad 2.7 T, Quattro	2000-05	Octavia 1.8T, RS, Combi	1997 ->	Polo 1.4 FSI	2002-06
Q5 2.0 TFSI	2009 ->	Octavia FSI	2004 ->	Tiguan 2.0 TFSI	2007 ->
TT 1.8, 2.0, TFSI	2007 ->	SuperB 1.8 T, 2.8 V6	2002-08	Touran 1.6, 2.0, FSI	2003 ->


Reemplaza / Suitable:
Audi-Seat-VW 06B 905 379
 06B 905 379 A
 06B 905 379 C
 06B 905 379 D


33228

Aislante negro / Black colour

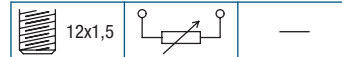
FORD		SEAT Cont.		VOLKSWAGEN	
Galaxy 1.9 TDI 90/110 cv	1995-00	Ibiza II 1.8 i 16V (ADL)	1994-96	Bora 1.9 SDi 68 cv	1998-05
SEAT		Ibiza II 1.9 SDi (AEY)	1996-99	Corrado 2.0 i (ADY)	1993-95
Alhambra 1.9 TDI 90/110 cv	1996-00	Ibiza II 1.9 TDI 90 cv	1996-99	Golf III 1.9 TDI 90/110 cv	1993-97
Arosa 1.7 SDi (AKU)	1997-02	Ibiza II 1.9 TDI 110 cv	1997-99	Golf III 2.0, GTi 16V	1992-97
Cordoba 1.8 i 16V	1993-96	Ibiza II 2.0 i (AGG)	1993-99	Golf IV 1.9 SDi	1997-05
Cordoba 1.9 SDi, Vario	1999-02	Leon 1.9 SDi (AQM)	2000-06	Lupo 1.7 SDi	1998-05
Cordoba 1.9 TDI 90/110 cv	1996-99	SKODA		Passat 2.0, 2.0 16V, Syncro	1991-96
Cordoba 2.0 i (AGG)	1994-99	Fabia 1.9 SDi, Combi	2000-07	Polo 1.7 SDi, 1.9 SDi	1999-05
Cordoba Vario TDI 90/110 cv	1996-99	Octavia 1.9 SDi, Combi	1997-08	Transporter IV. LT II	1996-03


Reemplaza / Suitable:
Ford 1003742
Seat-VW 028 906 081


33230

Aislante negro / Black colour

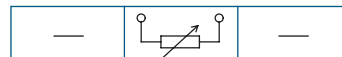
SUZUKI-SANTANA		SUZUKI	
Samurai 1300	1990-98	SJ 413 1.3	1990-95
Vitara 1.6 (ET, TA)	1988-98	Vitara 1.6 (ET, TA)	1988-98


Reemplaza / Suitable:
Suzuki 13650-56B00


33235

Aislante negro / Black colour

LEXUS		SUZUKI		TOYOTA Cont.	
GS 300, GS 300 T3	1993-05	Alto III 1.0	1994-02	Celica 2.0 GTi	1989-94
MAZDA		Alto IV 1.1	2002 ->	Corolla 1.3 XLI	1995-97
323 F V 1.5 16V	1993-98	Baleno	1995-02	Corolla 1.4	1997-00
323 P V 1.3 16V	1993-00	Carry 1.3, 1.3 16V	1999 ->	Corolla 1.6 Si	1995-97
323 P V 1.5 16V	1996-00	Grand Vitara 1.6, 2.0 TD	1998 ->	Corolla 1.8 16V	1995-97
323 S V 1.3 16V	1994-98	Grand Vitara 2.5 V6 24V	1998 ->	Corolla 2.0 D	1997-00
323 S V 1.5 16V	1994-98	Ignis 1.3	2000-03	Hiace III 2.4	1989-95
626 V, SW 2.0 TurboDi	1999-02	Ignis II 1.3 16V	2003 ->	Hiace IV 2.4	1995-98
Demio 1.3 16V	1998-00	Jimny 1.3 16V	1998 ->	Hiace IV 2.7	1998-01
MPV II 2.0	1999-00	Liana 1.3, 1.6, 4WD	2002 ->	Land Cruiser 3.0 TD	1996-01
MX-5 II 1.8 16V	1998-05	Wagon R+ 1.3	2000 ->	MR 2 2.0 16V	1989-90
Premacy 1.8	1999-00	TOYOTA		Paseo 1.5 16V	1996-99
Premacy 1.9	1999-00	Avensis 1.6, 1.8	1997-00	Picnic 2.0 16V	1994-00
Premacy 2.0 TD	1999-00	Avensis 2.0, VVT-i	2000-03	Previa 2.4	1990-00
Xedos 9 2.0 24V	1993-00	Camry 2.2	1991-96	Rav 4 I 2.0 16V	1994-00
Xedos 9 2.3 24V	1995-00	Carina 1.6 GLi	1992-97	Starlet 1.3 12V	1989-96
Xedos 9 2.5 24V	1993-00	Carina E 1.6 16V	1994-97	Supra 3.0i Bi-Turbo	1993-98
SUBARU		Celica 1.6 GT	1989-94		
Forester 2.0	1998-02	Celica 1.6 STi	1987-89		
Forester 2.0 S Turbo	1998-02	Celica 1.8i 16V	1993-99		
		Celica 2.0i 16V, Turbo	1993-99		


Reemplaza / Suitable:
Mazda BP4W-18845
 KL47-18845
Subaru 22634-KA071
Suzuki 13650-52G00
Toyota 89424-12010
 89424-33010




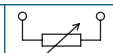
33240

Aislante negro / Black colour

LEXUS	
RX 400 h	2004 ->
MITSUBISHI	
Galant VI 2.4 GDI	1999-04
SUZUKI	
Vitara 1.6 16V, J1X	1990-98
TOYOTA	
Camry 3.0 V6	2002 ->



Reemplaza / Suitable:
Mitsubishi MD-770573
Suzuki 13650-57F00
Toyota 89422-33020



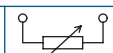
33245

Aislante gris / Grey colour

SUZUKI		SUZUKI Cont.		SUZUKI Cont.	
IGNIS II 1.3	2003 ->	LIANA Kombi 1.3	2001 ->	WAGON R+ 1.3 4WD	2003 ->
IGNIS II 1.3 4x4	2003 ->	LIANA Kombi 1.6	2001 ->	WAGON R+ 1.3 DDiS	2003 ->
IGNIS II 1.5	2003 ->	LIANA Kombi 1.6 4WD	2001 ->		
IGNIS II 1.5 4x4	2003 ->	SWIFT III 1.3	2005 ->		
IGNIS II 1.5 Sport	2003 ->	SWIFT III 1.3 4x4	2005 ->		
JIMNY 1.3 16V 4x4	2005 ->	SWIFT III 1.5	2005 ->		
LIANA 1.3	2002 ->	SWIFT III 1.5 4x4	2005 ->		
LIANA 1.6	2002 ->	SWIFT III 1.6	2006 ->		
LIANA 1.6 4WD	2002 ->	WAGON R+ 1.3	2003 ->		



Reemplaza / Suitable:
Suzuki 1365054G00000



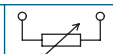
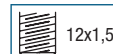
33250

Aislante verde / Green colour

FORD		MAZDA Cont.		TOYOTA Cont.	
Ranger 2.5 D, TD	1999-03	MX-3 1.6 i, 1.8 i 16V	1992 ->	Corolla Verso	2002 ->
JAGUAR		MX-5 1.8 i	1994-98	Hi-Ace, Hi-Lux	1989 ->
S-Type 4.2 V8	2002 ->	MX-6	1991 ->	Land Cruiser	1987 ->
XJ 8 Series	2003 ->	RX7	1992 ->	MR2	1989-00
XJ 12 Series 6.0 i V12	1994-03	RX8	2003 ->	Paseo 1.5 i 16V	1995-99
XK 8 Series	2002 ->	Xedos-6, Xedos-9	1992 ->	Pick-up V6	1988 ->
X-Type V6	2001 ->	MINI		Previa	1990 ->
LEXUS		One D	2003 ->	RAV 4 2.0	1994 ->
ES250, ES300	1989-97	SUZUKI		Supra	1987-98
GS300 3.0 i (2JZGE)	1993-97	Samurai 1300, SJ 413	1990-98	Yaris 1.4 D-4D	2002 ->
LS400 4.0 i V8 (1UZFE)	1994-97	Siderick 1.6 i, 16V	1990-94	Yaris Verso	2002 ->
SC300, SC400	1991-96	Swift 1.6 i 16V	1989-96	4 Runner	1989 ->
MAZDA		Vitara 1.6 i, J1X 16V	1988-99	VOLVO	
121 1.3 i	1991-96	X-90 1.6 i 16V	1995 ->	C30 2.4 D5	2006 ->
2 1.3, 1.5	2007 ->	TOYOTA		C70 2.0 T, 2.3 T5	2000-05
3 1.4, 1.6	2003 ->	Auris 1.4 VVTi	2007 ->	S40, V40	1998-03
323	1994-04	Avensis	1997 ->	S60, V70	2000 ->
5 2.0 CD	2005 ->	Camry 2.2 i, 3.0 i V6	1991-01	S80	1999-06
6 2.0 DI, MRZ	2002 ->	Carina E	1993-97	XC 70, XC 90	2002 ->
626 1.8 i, 2.0 i, 2.5 i V6	1991-97	Celica	1993-99	VOLKSWAGEN COMM.	
MPV	1992-99	Corolla	1997 ->	Taro 2.4 i (22R)	1989-97



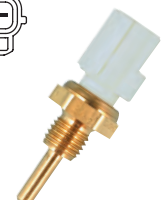
Reemplaza / Suitable:
Ford 3405645
3601374
B593-18840-A
F42Z-10884 A
G.M. 94847363
96062513
96065716
Jaguar LNA 1600AA
Kia MB59318840A
Mazda B3C8-18-840
B593-18-840 A
NF02-18-840
Mini 13627791951
Subaru 22630-KA020
Suzuki 13650-61B00
13650-71C00
Toyota 89422-20010
89422-35010
Volvo 30874172
VW J8942220010



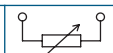
33255

Aislante blanco / White colour

CITROEN		TOYOTA		TOYOTA Cont.	
C1 1.0	2005 ->	Auris	2007 ->	Land Cruiser	2003 ->
PEUGEOT		Avensis, Sedan, Wagon	2003 ->	Previa 2.4 16V	2000-03
107 1.0	2005 ->	Avenir Verso 2.0 VVT-i	2001 ->	Prius 1.5	2003 ->
		Aygo 1.0	2005 ->	RAV 4 III	2006 ->
		Camry 2.4 VVT-i	2002 ->	Urban Cruiser	2009 ->
		Corolla 1.4 D	2004 ->	Yaris	2006 ->
		Corolla Verso 2.2 D-4D	2005 ->	VOLVO	
		Hi-Lux Pick-up 2.5 D, D4d	2006 ->	S80 II 4.4 V8 AWD	2006 ->
		IQ 1.0, 1.4 D-4D	2009 ->	XC 90 V8	2005 ->



Reemplaza / Suitable:
PSA 1920.KP
Toyota 89422-06010
89422-0H010
89422-33030
89429-47010
Volvo 30646713



33260

Aislante negro / Black colour

FORD		FORD Cont.		FORD IMPORTS USA	
Escort V	1990-92	Scorpio I	1993-94	Contour	1993 ->
Escort VI	1992-95	Scorpio II	1994-98	Mercury Mistique	1993 ->
Escort VII	1995-98	Tourneo Connect	2002 ->	MAZDA	
Fiesta III	1992-95	Transit 2.0	1994-00	121 III 1.3	1996 ->
Focus	1998-04				
Galaxy 2.0 i, 2.3 i 16V	1995-06				
Mondeo I	1994-96				
Mondeo II	1996-00	Motores/Engines/Moteurs:			
Orion III	1992-93	ZETEC, ZETEC-E.			



Reemplaza / Suitable:
Ford 6193368
91AB-10884-AA
97FB-10884-AA
Mazda 1E04 18 760
1E04 18 760 A



33280

Aislante negro / Black colour

MERCEDES BENZ		MERCEDES COMM.		PUCH	
Clase C (W202)	1993-00	Sprinter 2-t	1995-00	G 320 (W463)	1994-97
Clase C Wagon (S202)	1996-01	Sprinter 3-t	1997-02	G 36 AMG	1995-98
Clase E (W124)	1993-95	Sprinter 4-t	1997-06		
Clase E Coupe (C124)	1993-97				
Clase E Descapotable (A124)	1993-98				
Clase E Wagon (S124)	1993-96				
Clase G, Cabrio (W463)	1994-97				
Clase S (W140)	1993-98				



Reemplaza / Suitable:
Mercedes 009 542 35 17



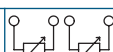
33290

Aislante negro / Black colour

MERCEDES BENZ		MERCEDES Cont.			
190 (W201)	1985-93	Coupe (C124)	1987-93		
C 200 D	1993-00	Kombi (S124)	1985-93		
Clase E (W124)	1993-97	Sedan (W124)	1985-93		
Clase E Wagon (S124)	1993-96	SL (R129)	1989-01		
Clase G (W463), Cabrio	1989-97	PUCH			
Clase S (W126)	1979-91	230 GE	1990-93		
Clase S (W140)	1991-98	300 GE	1990-95		
Clase S Coupe (C126)	1985-91				
Clase S Coupe (C140)	1992-99				



Reemplaza / Suitable:
Mercedes 008 542 32 17



Modelos con Catalizador y/o
Aire Acondicionado.
Models with cat. version and/or
Air Conditioning.
Modèles avec catalyseur et/ou
Air Conditionné.



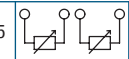
33295

Aislante negro / Black colour

BMW		BMW Cont.		BMW Cont.	
316i Compact 1.6i, Coupe	1995-99	323i 2.5i 24V	1994-98	540i 4.4i 32V, Touring	1996-02
318d 1.7 TDS	1994-98	323i Coupe, Touring	1995-99	728i, il	1995-01
318d Compact, Touring	1994-99	325tds Touring 2.5 TD	1994-99	750i, il	1994-01
318i Compact 1.9i 16V	1995-98	328i 2.8i 24V, Touring	1994-99	850Ci 5.4i V12	1994-99
318is 1.9i 16V	1994-99	523i 2.5i 24V	1995-99	M3 3.2i 24V, Coupe	1995-99
318tds 1.7 TD	1994-99	525d 2.5 TD, TDs, Touring	1996-98	M5 4.9i 32V	1998-01
318tds Compact, Touring	1995-99	525tds 2.5 TD	1995-99	LAND ROVER	
320i Coupe 2.0i 24V	1991-99	528i 2.8i 24V	1996-99	Discovery II 4.0 V8	1999 ->
320i Touring 2.0i 24V	1994-99	535i 3.5i 32V	1996-99	Range Rover III 3.0 TD, 4.4	2002 ->


Reemplaza / Suitable:
BMW 13621703993
Land Rover 1703993


12x1,5



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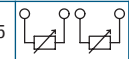
33296

Aislante negro / Black colour

LAND ROVER		MG		ROVER	
Defender 90	2000-02	MGF 1.8i VVC	2001-02	MGF 1.8i VVC	2001-02
Defender 110	2000-02	MGF 1.8i 16V	1995-02		
Discovery II 4.0 V8	1999-02	MGTF 115	2002 ->		
Discovery II 4.6 V8 (USA)	2003 ->	MGTF 120	2002 ->		
Range Rover 3.0	2002-03	MGTF 135	2002 ->		
Range Rover 3.5	2002-03	MGTF 160	2002 ->		
Range Rover 4.4	2002-03				
Range Rover II 3.9	1994-02				
Range Rover II 4.6	1994-02				


Reemplaza / Suitable:
Land Rover MEK 100160
Rover Group MEK 000020
MEK 100160A


12x1,5



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33300

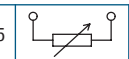
Aislante negro / Black colour

ROVER	
214 1.4 i	1989-92
214 1.4 i 16V	1989-92
414 1.4 i	1989-92
414 1.4 i 16V	1989-92
827 i 2.7 V6, Sterling	1988-96

 Modelos con Aire Acondicionado.
 Models with Air Conditioning.
 Modèles avec Air Conditionné.

Reemplaza / Suitable:
Rover Group CDU 2773
GVs 107


12x1,5



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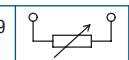
33310

Aislante negro / Black colour

CITROËN		MITSUBISHI		MITSUBISHI Cont.	
C-Crosser 2.4 16V	2008 ->	Carisma	1995-06	Space Gear, Star	1996 ->
DAIHATSU		Colt IV, V, VI	1992 ->	Space Runner, Wagon	1992-99
Applause 1.6 16V	1989-97	Galan V, VI	1993-04	PEUGEOT	
Charade IV	1993-99	Grandis 2.4	2004 ->	4007 2.4 16V	2008 ->
Cuore IV 0.8	1995-96	L 200	1996 ->	SMART	
Feroza 1.6i 16V	1988 ->	Lancer IV, V, VI	1992-03	Forfour	2004 ->
HYUNDAI		Montero V6 24 V	1994-00	Fortwo	2007 ->
Sonata III	1998-01	Montero iO	1999 ->	VOLVO	
XG 25	1999 ->	Outlander	2003 ->	S40, V40, 1.8 i	1998-04


Reemplaza / Suitable:
Daihatsu 89422-87101
 89422-87202
 39220-35710
Hyundai MD-177572
Mitsubishi MD-182467
PSA 1338.G4
Smart 0051536228
Volvo 30874182


3/8x19 BSP

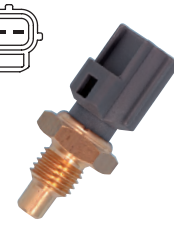


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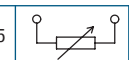
33315

Aislante gris / Grey colour

MAZDA		SUZUKI	
323 TD DI 2.0 16V	1998-00	Vitara 2.0 TD (ET)	1994-98
323F TD DI 2.0 16V	1997-00	Vitara TD Intercooler	1995-98
323 6 Hatch, Saloon, dtid	1998-00		
626 DI 2.0 16V	1998-99		
626 DI TD 2.0 16V	1999-02		
626 Wagon 2.0 16V DI	1997-02		
626 5 Combi, Hatchbak dtid	1997-02		
Premacy DI TD 2.0 16V	1999-00		


Reemplaza / Suitable:
Denso 179730-0020
Mazda RF1L-18-840
Suzuki 1528078E10000


12x1,5

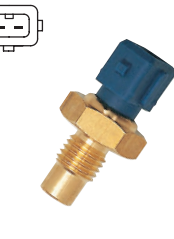


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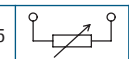
33320

Aislante azul / Blue colour

DAEWOO		RENAULT		VOLVO	
Nubira 1.6 (A16DMS)	1997-99	R-19 1721 cc. (F2N)	1988-96	440 1.6 (B16F)	1988-96
Nubira 1.6i 16V	1999-00	R-19 TXI (F3N)	1990-92	440 1.7, Injection, Turbo	1988-96
OPEL		VAUXHALL		440 1.8 (B18U)	1991-96
Astra 1.8 i (C18SEL)	1991-98	Astra 1.8 i 16V (C18XE)	1992-98	440 2.0 (B20F)	1992-96
Astra 1.8 i 16V (C18XE)	1991-94	Calibra 2.0 i 16V (X20XEV)	1989-96	460 1.6 (B16F)	1992-96
Calibra 2.0 i 16V (X20XEV)	1989-93			460 1.7, Injection, Turbo	1989-92
Omega B 2.0 i, 2.0 i 16V	1994-98			460 1.8 (B18E, U)	1986-96
Vectra B 1.8 i 16V	1995-98			480 1.7, ES, Injection, Turbo	1986-96
Vectra B 2.0 i 16V	1996-00			480 1.8, 2.0 (B18EP/B20F)	1989-95


Reemplaza / Suitable:
Daewoo 96253551
G.M. 90411977
Opel 1342850
Volvo 3447882-6


12x1,5



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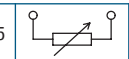
33330

Aislante negro / Black colour

ALFA ROMEO		FIAT		OPEL Cont.	
Alfa 145/146 1.6 i	1994-96	Punto 90 1.6 i ELX	1994-97	Frontera B	1998 ->
CHEVROLET / DAEWOO		Tempra 1.6 i MPI	1993-96	Vectra B 2.2i 16V	2000-03
Aveo	2006 ->	LANCIA		Vectra C 2.2 16V, 3.0 CDTI	2003 ->
Espero	1993-99	Dedra 1.6 i LE, LS, MPI	1994-99	Zafira 2.2 16V	2000 ->
Kalos	2002 ->	OPEL		RENAULT	
Lacetti	2004 ->	Antara	2006 ->	Espace IV 3.0 dCi	2002 ->
Matiz	1998 ->	Ascona C 1.6 i, 1.6 i Cat.	1981-88	Vel Satis 3.0 dCi	2002 ->
Nexia	1996 ->	Astra G 2.2 16V	2000-05	SAAB	
Nubira	1997 ->	Corsa A. Kadett E. 1.3, 1.6	1988-93	9-5 3.0 TID	2001 ->


Reemplaza / Suitable:
Alfa Romeo 60811520
Bosch 0 280 130 009
Daewoo 25036898
Fiat 7778980
G.M. 25036898
 25037062
Opel 0850413
Renault 77 01 053 991


12x1,5



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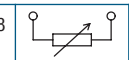
33331

Aislante negro / Black colour

CHRYSLER		DODGE	
Caravan	1984-88	Intrepid	1994-97
LeBaron	1984-88	Ram Charger	1991-94
Neon 2.0	1995-98		
New Yorker	1984-90		
Stratus	1995-96		
Voyager	1984-88		


Reemplaza / Suitable:
Chrysler 5226374


3/8x18 NPTF



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33335

Aislante negro / Black colour

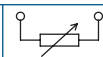
CHRYSLER		DODGE	
300 M. Concorde	2001-03	Caravan	2002-03
Intrepid	2001-03	Grand Caravan	2001-03
LHS	2001 ->	Intrepid	2000-03
Pacifica	2001 ->	Neon	2003 ->
Prowler	2004 ->	Stratus	2002-03
PT Cruiser	2002 ->		
Sebring	2001-03		
Town & Country	2001-03		
Voyager	2001-03		



Reemplaza / Suitable:
Chrysler 5269870 AB



3/8x18
NPTF



33340

Aislante negro / Black colour

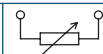
BUICK		HONDA		OPEL	
		Passport 3.2 i (USA)	1994 ->	Astra G 1.7 DTi 16V	2000-05
CADILLAC		ISUZU		Corsa C 1.7 DI, DTi	2000 ->
CHEVROLET		Pick-up 3.1 i V6 (LG6)	1988-97	Meriva 1.7 DTi	2003 ->
		Rodeo 3.1 i V6 (LG6)	1990-92	Monterey 3.2 i V6 24V	1992-98
		Rodeo 3.2 i V6 (RLU)	1992 ->	Monterey 3.5 i V6	1995-99
DAEWOO		Trooper 3.2 i V6	1992 ->	Signum 3.0 V6 CDTi	2005 ->
Aranos 1.8 i, 2.0 i	1994-98	Trooper II 3.2 i V6	1988-91	Vectra C 3.0 CDTi	2005 ->
Espero 1.8 i, 2.0 i	1994-99	OLDSMOBILE		PONTIAC	
				Le Mans 1.6	1982-88



Reemplaza / Suitable:
AMC 898350327
Chrysler 330042.81
Daewoo 25036979
G.M. 25036979
25037082
Isuzu 8-25036-979-0
Opel 1338450
6238236



3/8x18
NPTF



33345

Aislante blanco / White colour

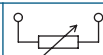
CHEVROLET		OPEL	
Captiva 2.0 D	2006 ->	Antara 2.0 CDTi	2006 ->
Cruze 2.0 CDI	2009 ->	Antara 2.0 CDTi FWD	2008 ->
Epica 2.0 D	2007 ->		
Lacetti 2.0 D	2007 ->		
Nubira Kombi 2.0 D	2007 ->		
Optra 2.0 TDCi	2006 ->		



Reemplaza / Suitable:
Chevrolet 96440380
GM 96440380
Opel 4803542



3/8x19
BSP



33350

Aislante negro / Black colour

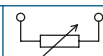
HYUNDAI		MITSUBISHI		OPEL	
H-T 2.4	1998 ->	Colt III, IV	1988-96	Campo 2.5 TD, 4x4	1994 ->
H100 2.4	1993-00	Lancer III, IV	1990-92	Campo 3.1 TD, 4x4	1992 ->
Lantra	1990-95	Mirage 1.5 i (4G15)	1990-95	Monterey 3.1 TD	1991-98
Santa Fe	2006 ->	Montero 2.4, 3.0i V6, 3.5i V6	1991-00		
Santamo	1999 ->	Space Gear 2.0 16V	1996-00		
Sonata II, V	1996-06	Space Runner 1.8 i (4G93)	1991-99		
KIA		Space Wagon 1.8 i (4G93)	1991-98		
Carens. Carnival III	2006 ->	Truck 2.4 i, 3.0 i V6	1990-96	Sustituye original OPEL color blanco.	
Joice. Magentis	2001 ->	3000 GT 3.0 i V6, Turbo	1992-99	Replaces original white OPEL.	
				Remplace original OPEL couleur blanche.	



Reemplaza / Suitable:
G.M. 97036606
97069786
Hyundai 39220-35510
Isuzu 8-97036606-0
Kia 39220 35520
Mitsubishi MD-149338
Opel 1341031
1341038



3/8x19
BSP



33355

Aislante negro / Black colour

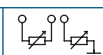
HYUNDAI		KIA	
Accent 1.3, 1.5	2000 ->	Magentis 2.0	2001 ->
Accent 1.5 CRDi	2002 ->	Magentis 2.5 V6	2001 ->
Accent 1.6	2003 ->		
Coupe 2.0	2002 ->		
Coupe 2.7 V6	2002 ->		
Getz 1.3	2002 ->		
Matrix 1.6	2001 ->		
Matrix 1.8	2001 ->		
XG 25	2000 ->		



Reemplaza / Suitable:
Hyundai 39220-38020
39220-38030
39230-26700



3/8x18
NPTF



33360

Aislante verde / Green colour

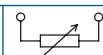
DAIHATSU		MAZDA Cont.		TOYOTA	
Charade III	1987-92	MX3 1.6 i	1991-93	Camry	1986-91
MAZDA		MX5 1.6 i	1990-93	Celica Supra 2.8 i	1982-85
121	1987-90	Protege 1.8 i	1990-94	Century VG40	1982-86
323 1.6 i, 1.6 i EGI	1990-94	Rx7 1.3 i	1989-92	Corolla	1987-93
929. 929 S. 929 i	1986-91	SUZUKI		Crown	1980-85
B 2200 2.2 i, 2.2 EGI	1990-91	Sidekick 1.6 i	1989-90	Land Cruiser D, TD	1984-96
B 2600 2.6 i -> Ch.880548	1990-93	Swift 1.3 i (DOHC, SOHC)	1989-91	MR2 (AW11)	1985-90
Miata 1.6 i	1990-93	Swift 1.3 GTi	1984-95	Starlet 1.3 (KP60, 62)	1980-84
MPV 2.6 i, 3.0 i V6	1989-91			Supra	1981-88



Reemplaza / Suitable:
Daihatsu 8942287701000
Ford E8GY-10884-B
G.M. 96056758
Mazda 8574-18-840
Suzuki 13650-84101
Toyota 89422-12010
89422-30020
89422-87701



12x1,5



33370

Aislante negro / Black colour

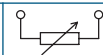
LAND ROVER		SAAB	
Discovery 3.5 i V8	1990-94	900 I 2.0 -16	1989-93
Discovery 3.5 i V8 EFI	1990-98	900 I 2.0 S Turbo-16	1985-93
Discovery 3.9 i V8 EFI	1990-98	900 I 2.1 -16	1990-93
Range Rover 3.9 V8	1990-92	900 I Combi Coupe	1984-94
Range Rover 3.9 i V8 EFI	1992-02	900 I Cabrio	1986-94
Range Rover 4.6	1994-02		



Reemplaza / Suitable:
Land Rover ETC 8496
Lucas 73355
SNB802
Saab 74 85 006



12x1,5



33390

Aislante blanco / White colour

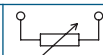
SAAB	
900 2.0 i 16V (B204)	1994-98
900 2.0 i 16V (B206)	1994-98
900 2.0 i Turbo (B204L)	1994-98
900 2.3 i 16V (B234)	1994-98
9000 2.0 i 16V (TCS)	1990-96
9000 2.3 i 16V (TCS)	1990-96



Reemplaza / Suitable:
Bosch 0280 130 075
Saab 91 37 803



12x1,5





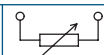
33400

Aislante verde, Aro blanco / Green colour, White ring

CITROËN	FIAT	PEUGEOT
Evasion Turbo SX, VSX	Ulysse 2.0 i Turbo EL, HL	406 1.8 i (XU7JB)
Xantia Turbo CT		406 2.0 i 16V, Coupe
XM 2.0 i Turbo	LANCIA	406 2.0 i Turbo SV
	Zeta 2.0 i Turbo	605 2.0 i SRTi, SVTi
		806 2.0 i Turbo ST, SV

 Motores/Engines/Moteurs:
 XU10J2TE.


12x1,5



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Reemplaza / Suitable:

 Citroën 96 164 556
 Fiat 9616455680
 Peugeot 1920.Q2

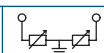
33410

Aislante negro / Black colour

AUDI	AUDI Cont.
80 2.0 i E (PS)	1991-94
80 2.3 i E, Quattro. (NG)	1987-94
90 2.0 (PS)	1987-92
90 2.3 E (NG)	1987-92
100 2.0 i E (RT)	1988-91
100 2.3 i E (NF)	1988-91
100 2.3 i (AAR)	1991-94

 Motores/Engines/Moteurs:
 5 cil. KE-Jetronic.


10x1



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Reemplaza / Suitable:

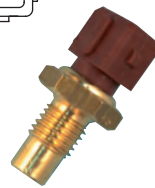
 Bosch 0280 130 053
 Audi-VW 034 906 161

33415

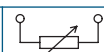
Aislante marrón / Brown colour

SMART (MCC)
Cabrio 0.6 55 cv.
Cabrio 0.6 61 cv.
Cabrio 0.8 CDI
City-Coupe 0.6 45 cv.
City-Coupe 0.6 55 cv.
City-Coupe 0.6 61 cv.
City-Coupe 0.8 CDI
Fortwo Cabrio 0.8 CDI
Fortwo Coupe 0.8 CDI

VOLKSWAGEN
Kafer 1600 i (Mexico)



12x1,5



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Reemplaza / Suitable:

 Smart 0003229V00200000
 0003229V00300000

33420

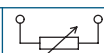
Aislante blanco / White colour

VOLKSWAGEN MEXICO
Beetle
Sedan 1.6

VOLKSWAGEN
Kafer 1600 i (Mexico)



12x1,5



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Reemplaza / Suitable:

 VW 113 906 161
 Siemens S103261001

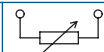
33425

Aislante gris / Grey colour

FORD	FORD Cont.	JAGUAR
C-Max 1.6	2007 ->	
Cougar 2.5 V6 24V	1998-01	
Escort VII	1995-98	
Fiesta III 1.1. 1.3	1989-95	
Fiesta IV	1995-02	
Fiesta V	2002 ->	
Focus	1998-04	
Focus II	2004 ->	
Focus C-Max	2003-07	

FORD Cont.	MAZDA
Fusion	121 III
Galaxy 2.0i, 2.3i 16V	2.1.25, 1.4, 1.6
KA 1.3i (BL13EFI, EFIN)	
Mondeo	
Mondeo II	
Puma	
Scorpio II 2.0i, 2.3i. 16V	
Transit	
Transit Tourneo	

MAZDA	VOLVO
626 V 1.8	C30 1.6
626 V 2.0 115 cv.	S40 II 1.6
626 V 2.0 136 cv.	V50 1.6
626 V Hatchback 2.0 115 cv.	
626 V SW 1.8	
626 V SW 2.0 115 cv.	
626 V SW 2.0 HP 136 cv.	

3/8x18
NPTF

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Reemplaza / Suitable:

 Ford 4337456
 7158126
 F5AF-12648-AB
 F5AF-12A648-AA
 LRA 1600AA
 1E00-18-510
 ZZM1-18-707
 30711661
 Jaguar
 Mazda
 Volvo

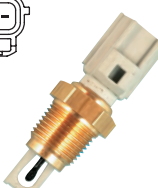
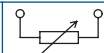
33426

Aislante gris / Grey colour

FORD	FORD Cont.	MAZDA
Escort Classic 1.6 16V	1998-00	626 V 1.8
Escort VII 1.3	1995-98	626 V 2.0 115 cv.
Escort VII 1.6 16V, 4x4	1996-98	626 V 2.0 136 cv.
Escort VII 1.6 16V XR3i	1996-99	626 V Hatchback 2.0 115 cv.
Escort VII 1.8 16V, XR3i	1995-98	626 V SW 1.8
Fiesta IV 1.8 Di 75 cv.	2000-02	626 V SW 2.0 115 cv.
Focus 1.8 Di/TDDi 75 cv.	1999-04	626 V SW 2.0 HP 136 cv.
Focus 1.8 TDCi 100 cv.	2002-04	
Focus 1.8 TDCi 115 cv.	2001-04	

FORD Cont.	MAZDA
Focus 1.8 Turbo Di/TDDi	626 V 1.8
Puma 1.7 16V	626 V 2.0 115 cv.
Tourneo Connect Di/TDDi	626 V 2.0 136 cv.
Transit 2.5 Di 69 cv.	626 V Hatchback 2.0 115 cv.
Transit 2.5 Di 76 cv.	626 V SW 1.8
Transit 2.5 Di 116 cv.	626 V SW 2.0 115 cv.
Transit 2.5 TD 75 cv.	626 V SW 2.0 HP 136 cv.
Transit 2.5 TD 85 cv.	
Transit 2.5 TD 100 cv.	

MAZDA	VOLVO
626 V 1.8	C30 1.6
626 V 2.0 115 cv.	S40 II 1.6
626 V 2.0 136 cv.	V50 1.6
626 V Hatchback 2.0 115 cv.	
626 V SW 1.8	
626 V SW 2.0 115 cv.	
626 V SW 2.0 HP 136 cv.	

3/8x18
NPT

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Reemplaza / Suitable:

 Ford 1090457
 3906827
 7256454
 F62F12A697AA
 F65F12A697AA
 F65F12A697AB
 F7RF12A697AA
 FSB9-18-845
 Mazda

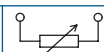
33430

Aislante gris / Grey colour

FORD	FORD COMM.	MAZDA
Escort	Combi Van	
Escort 16V Zetec	Courier Van	
Fiesta	Escort Van	
Galaxy 2.0 i	Fiesta Van	
Granada MKIII	P 100 Pick-up 1.6	
Mondeo	P 100 Pick-up 1.8 D, TD	
Orion	P 100 Pick-up 2.0	
Scorpio	Transit 2.0, 2.0 i. (OHC)	
Sierra / Sapphire	Transit 2.5 D, Turbo D	

FORD COMM.	MAZDA
Combi Van	
Courier Van	
Escort Van	
Fiesta Van	
P 100 Pick-up 1.6	
P 100 Pick-up 1.8 D, TD	
P 100 Pick-up 2.0	
Transit 2.0, 2.0 i. (OHC)	
Transit 2.5 D, Turbo D	

MAZDA	NISSAN

3/8x18
NPTF

—

Reemplaza / Suitable:

 Ford 1626262
 6810428
 E1AZ-12A648A,B
 E4AF-12A648AA
 E6DZ-19E702A
 F2AF-12A648AA
 ZZLO-18-707,A
 25079-1B020
 Mazda
 Nissan

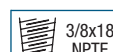
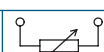
33440

Aislante blanco / White colour

FORD	FORD COMM.	MAZDA
Escort	Combi Van	
Escort 16V Zetec	Courier Van	
Fiesta	Escort Van	
Granada MKIII	Fiesta Van	
Mondeo	P 100 Pick-up 1.6	
Orion	P 100 Pick-up 1.8 D, TD	
Sapphire	P 100 Pick-up 2.0	
Scorpio	Transit 2.0, 2.0 i. (OHC)	
Sierra	Transit 2.5 D, Turbo D	

FORD COMM.	MAZDA
Combi Van	
Courier Van	
Escort Van	
Fiesta Van	
P 100 Pick-up 1.6	
P 100 Pick-up 1.8 D, TD	
P 100 Pick-up 2.0	
Transit 2.0, 2.0 i. (OHC)	
Transit 2.5 D, Turbo D	

MAZDA	VOLKSWAGEN

3/8x18
NPTF

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Reemplaza / Suitable:

 Ford 1629085
 6740335
 E0AZ-12A697A
 E1AZ-12A697A
 E4AF-12A697AA
 F2DF-12A697AA
 ZZL1-18-845
 026 906 161.6
 Mazda
 VW



33450

Aislante negro / Black colour

ACURA		HONDA		HONDA Cont.	
Integra 1.6 i	1988-89	Accord IV, V, VI	1990-98	Prelude IV, V	1992-00
Integra 1.7 i GS-R	1992-93	Accord VII Coupe	1998-03	Shuttle	1994-02
Integra 1.8 i, PGM-FI	1990-91	Civic II, III, IV, V	1988-01	ROVER	
Legend 3.2 i Sedan, Coupe	1991-96	Concerto 1.5i, 1.6i 16V	1989-95	416 Si, Fastback	1995-00
NSX 3.0 i V6	1991-97	CR-V 2.0 16V	1995-02	618 i/Si	1996-99
Odyssey 2.2 i PGM-FI	1995-97	CRX 1.6 i, 16V, VTI	1987-98	620 i	1993-96
Vigor 2.5 i (G25A1)	1992-96	HR-V 1.6 16V	1999 ->	620 Si	1993-99
		Legend II	1991-96	623 Si	1993-99
		NSX	1990-05		

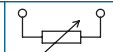


Reemplaza / Suitable:

Honda	37870-PJ7-003 37870-PK2-005 48160-P6K-004
Isuzu	5-86202-847-0
Rover	MEK100070 MEK100120
Unipart	GTR 210



12x1,5

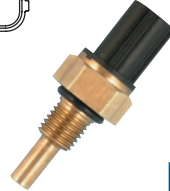


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33455

Aislante negro / Black colour

HONDA		HONDA Cont.	
Accord VIII 2.0, Tourer	2003 ->	CR-V II 2.0	2002-06
Accord VIII 2.4, Tourer	2003 ->	CR-V III 2.0 i-VTEC	2007 ->
Civic VI 1.4	2001-05	FR-V 1.7, 2.0	2005 ->
Civic VI 1.6	2001-05	Jazz II 1.2, 1.4	2002-08
Civic VI Coupe 1.7 i	2001-05	Jazz III 1.2, 1.4	2008 ->
Civic VI Coupe 1.7 i VTEC	2001-05	Stream 1.7 16V	2001 ->
Civic VI 3p. 1.4 iS	2001-05	Stream 2.0 16V	2001 ->
Civic VI 3p. 2.0 Type-R	2001-05		
Civic VII	2006 ->		

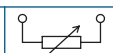


Reemplaza / Suitable:

Honda	37870-PLC-004 37870-PNA-003 37870-RAA-A01
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10x1,25



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NEW 33456

Aislante blanco / White colour

HONDA		HONDA Cont.	
Accord IX 2.0	2008 ->	Civic VII Fastback 2.2 CTDi	2006 ->
Accord IX 2.2 i-DTEC	2008 ->	Civic VII Fastback Type R	2006 ->
Accord IX 2.4	2008 ->	CR-V III 2.0 i-VTEC	2007 ->
Accord IX Kombi 2.0	2008 ->	CR-V III 2.2 i-CTDi	2007 ->
Accord IX Kombi 2.2 i-DTEC	2008 ->	FR-V 1.8	2007 ->
Accord IX Kombi 2.4	2008 ->	Insight 1.3	2009 ->
Civic VII 1.3	2006 ->	Legend III 3.7 VTEC V6	2008 ->
Civic VII Fastback 1.4	2006 ->		
Civic VII Fastback 1.8	2006 ->		

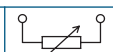


Reemplaza / Suitable:

Honda	37870-RTA-005 37870-RWC-A01 37870-RZA-007
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10x1,25

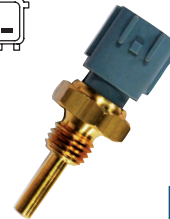


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33460

Aislante azul / Blue colour

NISSAN		NISSAN Cont.	
Almera (N16E) QG15DE		Serena GA16DE	
Almera (N16E) QG18DE		Serena SR20DE	
Almera (N16E) YD22DDTI		Terrano II (R20) K24E	
Micra 1.0 e (CG10DE)		Terrano II (R20) TD27TI	
Primera (P11) QG16DE		Tino (V10M) QG18DE	
Primera (P11) QG18DE		Tino (V10M) SR20DE	
Primera (P11) SR20DE		Tino (V10M) YD22DDTI	
Primera (P11) CD20T			

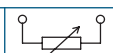


Reemplaza / Suitable:

Bosch	0280 130 081
Nissan	22630-0M200



12x1,5



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33470

Aislante azul / Blue colour

SUZUKI	
Swift 1.3 i GT, GXi	1986-89
Swift DOHC (USA)	1989-94
Swift II 1.3 GTi	1989-01

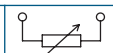


Reemplaza / Suitable:

Suzuki	13650-64B00
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12x1,5

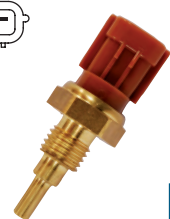


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33475

Aislante rojo / Red colour

FIAT		SUZUKI	
Sedici 1.6 16V	2006 ->	Grand Vitara 1.6 Allrad	2005 ->
Sedici 1.6 16V 4x4	2006 ->	Grand Vitara 2.0 Allrad	2005 ->
		SX4 1.5	2006 ->
		SX4 1.6	2006 ->
		SX4 1.6 VVT	2006 ->
		SX4 1.6 VVT 4x4	2006 ->
		SX4 Sedan 1.6	2007 ->
		SX4 Sedan 1.6	2007 ->
		SX4 Sedan 2.0	2007 ->

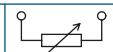


Reemplaza / Suitable:

Fiat	71742065
Suzuki	1365073H00000



12x1,5



33480

Aislante blanco / White colour

OPEL		OPEL Cont.	
Agila 1.0 12V, 1.2 16V	2000 ->	Zafira 1.6 16V	1999-05
Astra G	1998-05	Zafira 2.0 DI, DTI, 16V	1997-03
Astra H 2.0 Turbo, GTC	2004 ->	Zafira 2.0	2005 ->
Corsa B 1.0 12V, 1.2 16V	1997-00	SATURN	
Corsa C 1.0, 1.2, 1.2 16V	2000 ->	L Series	2000 ->
Frontera B 2.2 DTI	1998-02		
Omega B 2.0 DTI 16V	1997-00		
Sintra 2.2i, 3.0i	1996-99		
Vectra B 2.0 DI, DTI	1997-03		

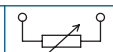


Reemplaza / Suitable:

Bosch	0 281 002 169 180137
G.M.	90541937 90570382
Opel	1338461 1338467



12x1,5



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33485

Aislante negro / Black colour

FERRARI		OPEL Cont.	
360 Modena	1999 ->	Frontera B 2.2 DTI	1998 ->
MASERATI		Meriva 1.4 16V Twinport	2004 ->
		Signum 2.0, 2.2. DTI	2003 ->
		Tigra TwinTop 1.4	2004 ->
OPEL		Vectra B 2.0, 2.2. DTI	2000-03
Agila 1.0 12V, 1.2 16V	2000 ->	Vectra C, GTS	2002 ->
Astra G 2.2 DTI	2002-05	Zafira 2.2 DTI	2002-05
Astra H	2005 ->		
Corsa C 1.0, 1.2, Twinport	2000-05		
Corsa D 1.0, 1.2, 1.4	2006 ->	SAAB	

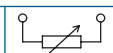


Reemplaza / Suitable:

Bosch	0 281 002 170 0 281 002 473 180137
Ferrari	90542063
G.M.	90570185
Opel	6238179 6238422
Saab	91 98 691



12x1,5



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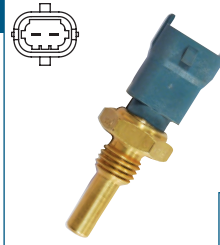
33490

Aislante azul claro / Light blue colour

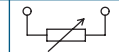
ALFA ROMEO	
Alfa 145/146 1.9 JTD	1999-01
Alfa 156, Sportwagon	1997-05
Alfa 166 2.4 JTD	1998 ->
CHEVROLET	
FIAT	
Brava/ Bravo 1.9 JTD	1998-01
Marea 1.9 JTD, 2.4 JTD	1999 ->
Multipla 1.9 JTD	1998 ->
HOLDEN	

HONDA	
Accord VIII 2.2 CTDi	2004 ->
Civic VII 2.2 CTDi	2006 ->
CR-V 2.2 CTDi	2005 ->
FR-V 2.2 CTDi	2005 ->
IVECO	
Daily II	2002 ->
Trakker AD	2006 ->
LANCIA	
Kappa.Lybra. 1.9, 2.4. JTD	1998-01

OPEL	
Astra F 1.6 i 16V	1998-02
Combo 1.2, 1.4	1994-01
Corsa B 1.2i, 1.4i, 16V	1993-00
Omega B V6	1994-00
Tigra 1.4 16V, 1.6 16V	1994-00
Vectra B 1.6 i 16V	1995-02
Vectra B 2.5 i V6	1996-00
RENAULT TRUCKS	
SAAB	



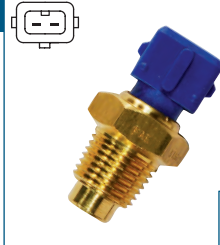
Reemplaza / Suitable:	
Alfa Romeo	46472179 46469865
Bosch	0280 130 093 0281 002 209
Fiat	60814715
G.M.	90541520
Iveco	500382599
Opel	6235605



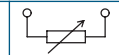
33500

Aislante azul / Blue colour

SEAT	
Marbella Injection	1989-96



Reemplaza / Suitable:	
Seat-VW	028 947 000 A



NEW 33501

Aislante negro / Black colour

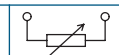
OPEL	
Agila	2000 ->
Astra F, G	1992-04
Astra H	2005 ->
Astra H GTC	2006 ->
Calibra A	1990-97
Combo	1994 ->
Corsa B	1993-00
Corsa C	2000 ->
Frontera B	1998 ->

OPEL Cont.	
Meriva	2003 ->
Omega B	1994-03
Signum	2003 ->
Tigra	1994 ->
Vectra A	1988-95
Vectra B	1995-02
Vectra C	2003 ->
Vivaro	2001 ->
Zafira	1999 ->

SAAB	
9-3	1998-02
9-3 Cabriolet	2001-03
9-5	1998 ->
VAUXHALL	



Reemplaza / Suitable:	
G.M.	90477289 91542245
Opel	1236284
Saab	46 16 173



NEW 33503

Aislante negro / Black colour

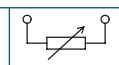
MERCEDES BENZ	
190 E	1982-93
Cabriolet 300 CE-24	1992-93
Coupe 230 CE, 300 CE	1987-93
E-CLASS E 300 4-matic	1993-96
E-CLASS E 420, 500	1993-95
E-CLASS E 60 AMG	1994-95
G-CLASS 230 GE	1982-93
G-CLASS 300 GE	1989 ->
G-CLASS G 500 E	1993 ->

MB Cont.	
Kombi 200 TE	1988-92
Kombi 230 TE	1985-92
Kombi 260 TE FGST.	1985-92
Kombi 300 TE	1986-93
S-CLASS 260	1985-91
S-CLASS 300	1985-98
S-CLASS 400	1991-98
S-CLASS 420	1985-99
S-CLASS 500	1985-99

MB Cont.	
S-CLASS 560	1985-91
S-CLASS 600	1991-99
Sedan 200 E	1988-92
Sedan 230 E	1984-93
Sedan 260 E	1985-92
Sedan 300 E	1985-93
Sedan 400 E 4.2	1992-93
Sedan 500 E	1991-93
SL 300, 420, 500	1985-01



Reemplaza / Suitable:	
Bosch	0280 130 047
MB	007 542 21 17



33504

Aislante negro / Black colour

DAEWOO	
Korando 3.2	1999 ->
Musso 2.3	1999 ->
Musso 3.2	1999 ->
MERCEDES BENZ	
A 140	2001-04
A 160	1997-04
A 170 CDI	2001-04
A 190	1999-04
A 210	2002-04
Clase B	2005 ->
C 180	1993-00
C 200, CDI	1994-00
C 200 D, Kompressor	1995-00
C 220 CDI	1997-00
C 230 Kompressor	1995-00
C 270 CDI	2000 ->
C 32 AMG, Kompressor	2001 ->
E 220	1993-95
E 280	1995-99
E 300 D	1995-97
E 320 CDI	1999-02

MERCEDES BENZ Cont.	
E 420	1996-97
E 50 AMG	1996-97
E 55 AMG 4-matic	2001-02
E 200 CDI, Kompressor	2002 ->
E 220 CDI, T CDI	2002 ->
E 270 CDI	2002 ->
E 320 CDI	2002 ->
E 400 CDI	2002 ->
E 220 T CD	1998-99
E 250 T D	1996-99
E 250 T Turbo-D	1997-99
E 270 T CDI	1999-03
E 290 T Turbo D	1996-99
E 300 T Turbo-D	1996-99
E 320 T CDI	1999-03
E 320 T CDI	1999-03
G 270 CDI	2001 ->
G 290 TD	1997 ->
G 300 TD	1996 ->
G 400 CDI	2000 ->
ML 400 CDI	2001-05

MERCEDES BENZ Cont.	
S 300 Turbo-D	1996-98
S 320 CDI	2002 ->
S 400 CDI	2000 ->
V 200 CDI	1999 ->
CLK 270 CDI	2002 ->
Kombi TE	1992-93
Kombi 280 TE	1992-93
Kombi 320 TE	1992-93
SL 280	1993-01
SL 320	1993-01
SL 600	1992-01
SLK 32 AMG Kompressor	2001-04
Sprinter	1996 ->
Vaneo 1.6, 1.7, 1.9 CDI	2002 ->
Viano	2003 ->
Vito 108, 110, 112 CDI 2.2	1999 ->
MITSUBISHI	
Colt VI 1.5 DI-D	2004 ->
SMART	
VOLKSWAGEN	
LT 28-35, 28-46. II 2.3	1996 ->



Reemplaza / Suitable:	
Bosch	1 287 213 607
Daewoo	005422818
Mercedes	000 542 28 18 006 153 20 28 006 153 80 28 MN-960276
Mitsubishi	0003119/002000000
Smart	000 542 28 18
Ssangyong	2D0 905 379A
Volkswagen	



33505

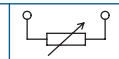
Aislante negro / Black colour

OPEL	
Astra 1.8i 16V (C18XE)	1993-94
Astra 1.8i 16V (X18XE)	1994-98
Astra 1.8i 16V Cabriolet	1995-01
Astra 2.0i 16V, Caravan	1995-98
Astra G 2.0i 16V (X20XEV)	1998-05
Astra G 2.0i 16V Caravan	1998-05
Calibra 2.0i 16V, 4x4	1994-97
Omega B 2.0i 16V	1994-99
Vectra A 2.0i 16V, 4x4	1994-95

OPEL Cont.	
Vectra B 1.8i 16V (X18XE)	1995-00
Vectra B 2.0i 16V (X20XEV)	1995-00
Vectra B Caravan 1.8i 16V	1996-00
Vectra B Caravan 2.0i 16V	1996-00



Reemplaza / Suitable:	
G. M.	90499898
Opel	6238331
Siemens	5WK96061 S103801001A



33506

Aislante negro / Black colour

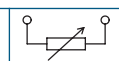
CITROEN	
AX 1.1	1986-97
ZX 1.4i	1991-97
FIAT	
Cinquecento 0.9 i.e	1991-93
Cinquecento 0.9 i.e S	1991-98
Cinquecento 1.1 Sporting	1994-98
Panda 1000 4x4	1987-98
Panda 1100 Trekking 4x4	1991-04
Punto 55 1.1	1993-99

FIAT Cont.	
Punto 60 1.2	1994-99
75 1.2	1994-99
LANCIA	
Dedra 1.6 i.e.	1989-94
Dedra 1.6 LE	1994-99
Y 1.2	1996-03
PEUGEOT	
106 I 1.1	1991-96
106 II 1.1 i	1996-02

PEUGEOT Cont.	
205 II 1.1	1989-98
306 1.4 SL	1994-02
RENAULT	
19 II 1.8	1992-95
Clio I 1.2	1991-96
Express 1.2	1991-98
Twingo 1.2	1993-96
SEAT	
Marbella 0.9, Cat.	1987-96



Reemplaza / Suitable:	
Fiat	9942901





33509

Aislante negro / Black colour

CITROËN		FORD		PEUGEOT	
Berlingo 1.6	2005 ->	C-Max 1.6, 1.8, 2.0	2007 ->	1007, 4007	2005 ->
C1 C2 C3 C4 C5 C6 C8	2002 ->	Fiesta, Focus, Fusion	2001 ->	107, 206, 207, 307, 308	2001 ->
C-Crosser 2.2 HDi	2007 ->	Galaxy, Kuga	2006 ->	407, 607, 807	2002 ->
Jumpy, Nemo	2007 ->	Mondeo, S-Max	2006 ->	Bipper, Expert, Partner	2006 ->
Xsara Picasso 1.6 HDi	2004 ->	LANCIA		TOYOTA	
FIAT		Phedra 2.0	2006 ->	Aygo 1.4 HDi	2005 ->
Scudo 2.0 D Multijet	2007 ->	MINI		VOLVO	
Ulysse 2.0, 2.2	2006 ->	Mini Cooper D	2007 ->	C30, C70, S40, V50, V70	2004 ->



Reemplaza / Suitable:

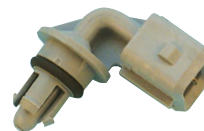
Citroën	96.554.327
Fiat	9655432780
Ford	1251249
Mini	13 627 794 982
Peugeot	1920.GF
	1920.JL
Toyota	SU001-00647
Volvo	30777255



33510

Aislante gris / Grey colour

CITROËN		LANCIA		PEUGEOT	
DACIA		OPEL		RENAULT	
FIAT		NISSAN			



Reemplaza / Suitable:

Citroën	94.633.276
Fiat	9627389680
Nissan	22630-00QAA
Opel	4412325
PSA	1920.1J
	1920.9F
Renault	77 01 042 145
	8200 164 249



33511

Aislante gris / Grey colour

CITROËN		RENAULT	
Saxo 1.6 VTL, VTR	1996-03	Clio II 1.2 16V	2001-04
Xsara 1.6i, Break, Coupe	1997-00	Clio III 1.2 16V	2005 ->
Xsara Picasso 1.6	2000 ->	Clio Grandtour 1.2 16V	2008 ->
NISSAN		Kangoo 1.2 16V	2001 ->
Kubistar 1.2 16V	2006 ->	Modus 1.2	2004 ->
PEUGEOT		Twingo 1.2 16V	2001 ->
206 1.6i	1998-00		
306 1.6 SR, Break, Cabrio	1994-00		



Reemplaza / Suitable:

Citroën	1920 6C
Nissan	22693-00QAA
Peugeot	1920.6C
Renault	77 01 055 723



33515

Aislante negro / Black colour

AUDI		SKODA		VOLKSWAGEN	
A3	1996-01	Fabia, Fabia Kombi	1999-08	Bora, Bora Variant	1998-05
SEAT		Octavia (1U2)	1997-03	Caddy III	2004 ->
Alhambra	1997 ->	Octavia (1Z3)	2004 ->	Golf IV, V, Variant	1997-08
Arosa	1997-04	Octavia Kombi (1U5)	1997-04	Golf VI 1.4, 1.6	2008 ->
Cordoba	2003 ->	Octavia Kombi (1Z5)	2005 ->	Lupo	1998-05
Ibiza IV	2003-08			New Beetle	1999 ->
Leon	1999-06			Polo	1999-08
Toledo II	1999-06			Touareg	2002-10
				Touran	2003 ->



Reemplaza / Suitable:

Seat-VW	1J0 919 379 A
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33516

Aislante negro / Black colour

AUDI		SEAT		VOLKSWAGEN	
A3	1996 ->	CORDOBA	1999-02	BORA	1998-05
A4	1995-01	IBIZA III	1999-02	GOLF III, IV	1991-06
TT 1.8 T, quattro	1998-06	LEON	1999-06	LUPO	1998-05
TT 3.2 VR6 quattro	2003-06	TOLEDO II	1999-06	NEW BEETLE	1998 ->
		SKODA		PASSAT	1990-05
		OCTAVIA	1996 ->	POLO	1999-01
		SUPERB	2002-08	VENTO	1991-98



Reemplaza / Suitable:

Volkswagen	1H0 907 543 A
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33520

Aislante blanco / White colour

MITSUBISHI		RENAULT		RENAULT Cont.	
Carisma 1.6i (4G92)	1995-00	R-19 II 1.7, 1.8	1988-96	Megane I, Megane Scenic	1996-03
Carisma 1.8 i (4G93)	1995-00	R-21 1.7, 2.0, 2.2	1986-94	Safrane II 2.0 16V, 2.2 dT	1996-00
Carisma 1.9 TD (F8QT)	1995-00	Clio 1.8 i, RSi, (F3P)	1993-98	Trafic 1.9 D	1997-01
OPEL		Clio II 1.4, 1.6	1998-05	VOLVO	
Arena 1.9 D	1998-01	Clio II 1.9 D	1998-05	S40 I	1995-99
Astra F 1.8i 16V	1994-98	Espace III 1.9 dTi	1999-02	V40	1995-00
		Espace III 2.0, 2.0	1996-00		
		Kangoo, Kangoo Express	1997 ->		
		Laguna	1995-01		



Reemplaza / Suitable:

G.M.	09109683
	90411958
Mitsubishi	MD-313486
Opel	0836402
	4401683
Renault	7700 744 583
Volvo	30804940
	30871112



33525

Aislante azul / Blue colour

CHEVROLET / DAEWOO		HYUNDAI		VOLVO	
Aveo 1.4	2006 ->	Lantra 1.5 ie	1990-95	440	1988-96
Captiva 2.4, 4WD	2006 ->	KIA		460	1989-96
Epica, Evanda, 2.0	2002 ->	Sephia 1.5, 1.5i	1996-98	480	1986-96
Kalos 1.4, 1.4 16V	2002 ->	MITSUBISHI		740 2.3, Kombi	1985-92
Lacetti 1.8	2004 ->			850 2.0, 2.5	1991-96
Lanos	1997-05	RENAULT		S70	1997-00
Leganza 2.0 16V, 2.2 16V	1997-02	R-19 1.7, Chamade	1988-95	V70	1997-00
Nubira	1997 ->				
Tacuma 2.0	2000 ->				



Reemplaza / Suitable:

Daewoo	96417820
G.M.	96183228
Hyundai	93340-24750
Kia	0K951 18831
Renault	7700 271 119
Volvo	1389556
	3447881
	3467813



33530

Aislante negro / Black colour

JAGUAR-DAIMLER		JAGUAR Cont.		ROVER	
Daimler XJ40 4.0	1992-94	XJS 6.0 V12	1993-96	100, Metro	1993-96
Double Six, HE	1980-92	XJS V12, HE	1981-92	Serie 200, Coupe	1981-92
Double Six 6.0	1993-96	XJ6 XJ40	1992-94	Serie 25	1992-94
Sovereign XJ40	1992-94	XJ12 (X300) 6.0	1994-96	Seie 400	1994-96
XJ12, HE 5.3	1981-92	XJ12 XJ40	1993-94	Streetwise	1993-94
XJS 3.6	1983-92				
XJS 4.0	1992-96			TVR	
XJS, HE 5.3	1980-92				



Reemplaza / Suitable:

Jaguar	EAC2863
	LHE1602AA
Lucas	73197
Webcon	WAS002





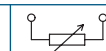
33535

Aislante negro / Black colour

AUDI		BMW		LANCIA	
A4 2.6, Avant, Quattro	1995-00	M3 3.0 Coupe (E36)	1992-95	Kappa 2.0i 16V Turbo	1995-01
A4 2.8, Avant, quattro	1997-00	750 i, il. V12. (E32)	1987-94	Kappa Estate 2.0 16V Turbo	1996-01
A6 2.6, Avant, Quattro	1994-97				
A6 2.8, Avant, Quattro	1996-97	FIAT		VOLKSWAGEN	
A8 2.8, Quattro	1996-98	Coupe 2.0i 20V Turbo	1996-00	Passat 2.8i V6, Syncro	1996-00
A8 3.7, Quattro	1995-98	Punto 1.4i GT Turbo	1994-99	Passat Variant 2.8i V6	1997-00
A8 4.2, Quattro	1994-98				
80 2.6, Avant, Quattro	1992-96				
100 2.6, Avant, Quattro	1992-94				



12x1,5



—

Reemplaza / Suitable:
Audi-VW 078 906 161
Bosch 0 280 130 060
BMW 13621718736
Fiat 7686599
Ford 90SF12A697AA

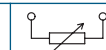
33536

Aislante negro / Black colour

BMW	
320i (E36)	1990-98
320i Cabriolet (E36)	1994-99
320i Coupe (E36)	1992-99
520i 24V (E34)	1989-95
520i Touring (E34)	1992-97
840 Ci Coupe (E31)	1996-99
840i Coupe (E31)	1993-96



12x1,5



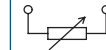
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Reemplaza / Suitable:
BMW 13621730035
Siemens 5WK90111
 G851110900100

33540

Aislante negro / Black colour

CHRYSLER		JEEP		PLYMOUTH	
Grand Cherokee 5.2	1993-98	Grand Cherokee 5.2	1993-98		
		Grand Cherokee 5.9 i	1997-99		
CHRYSLER TRUCK					
DODGE TRUCK					


 1/8x27
NPTF


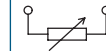
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Reemplaza / Suitable:
Chrysler 56004815

33550

Aislante negro / Black colour

CHRYSLER		RENAULT		RENAULT USA	
		R-19 I 1.7, Chamade	1988-92		
		R-19 II 1.7, Chamade	1992-95		
		R-21 1.7, 1.7 Cat.	1989-94		
		Super 5 1.7	1986-95		
EAGLE					
JEEP					


 3/8x18
NPTF


—

Reemplaza / Suitable:
Chrysler 33002383
Renault 89 33 002 383

Cable 193 mm.

33555

Aislante negro / Black colour

OPEL	
Astra F 1.7 D	1992-98
Astra F 1.7 TD, TDS	1992-98
Astra G 1.7 TD	1998-00
Corsa A 1.5 D (15D)	1987-92
Corsa B 1.5 D (15TD)	1993-00
Corsa B 1.5 TD	1993-00
Vectra A 1.7 TD (17TD)	1990-95
->Eng. 73148.	
Ch. L4000001->	

 Sensor temperatura encendido.
 Ignition temperature sensor.
 Senseur temperature d'allumage.

Cable 282 mm.


 1/8x28
BSP

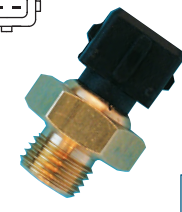

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Reemplaza / Suitable:
G. M. 94342011
Isuzu 8-94342011-0
Opel 1338449

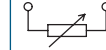
33560

Aislante negro / Black colour

OPEL	
Ascona 1.6 SV, 1.8 E, 1.8 SE	1982-88
Astra 1.6 i Cat. (C16SE)	1992-96
Corsa A 1.2 S, ST. (OHC)	1983-92
Corsa A 1.3 N	1983-92
Kadett E 1.3 (13N, 13S)	1985-91
Kadett E 1.6 (16SV)	1989-91
Kadett E 1.8 GSI (18SE)	1985-91
Omega 1.8, 1.8 i. (18SV, NV)	1986-92
Vectra 1.6 GL (16SV)	1988-96

 Temperatura de aceite.
 Oil Temperature.
 Température d'huile.


14x1,5



—

Reemplaza / Suitable:
G.M. 90276471
 90210162
Opel 0650635

33570

Aislante verde / Green colour

DAIHATSU	
Applause 1.6 i	1990-97
Applause II 1.6 16V	1997 ->
Charade 1.0 i (G103)	1988-92
Charade 1.3 i (HCE)	1989 ->
Feroza 1.6 i	1989 ->
Rocky 2.0 i	1989 ->


 3/8x19
BSP


—

Reemplaza / Suitable:
Daihatsu 8942287702000
Denso 179700-0061

33580

Aislante marrón / Brown colour

SUBARU	
Forester 2.0	1997-02
Forester 2.0 S Turbo	1998-02
Impreza 1.8 i	1993-00
Legacy I 1800, 2000, 2200	1989-94
Legacy II 2.0 i, 4WD	1994-99
Legacy II 2.2 i 4WD	1994-99
Legacy II 2.5 i 4WD	1996-99
SVX 3.3 i V6	1992-97



12x1,5



—

Reemplaza / Suitable:
Jecs A27-000 E13
Subaru 22630-AA040
 22630-AA041



33590

Aislante negro / Black colour

BMW	
320 i, Cabrio. (M50)	1992-95
320 i 2.0 i 24V (M50)	1992-98
320 i Coupe 24V (M50)	1992-95
325 i, Cabriolet. (M50)	1993-98
520 i (M50-Germany)	1989-92
520 i Touring (Germany)	1991-92
520 i, Touring. (M50)	1992-96



Reemplaza / Suitable:	
BMW	13621730034 1 730 034
Siemens	5WK90081 G851110900200



12x1,5

33595

Aislante marrón / Brown colour

JAGUAR		MG		ROVER	
XJ6 Series 3.2i 24V	1994-97	MG TF Series	2002 ->	Series 200	1992-00
XJ6 Series 4.0i 24V	1994-97	MG ZR Series	2001 ->	Series 25	2000 ->
XJ6 Series 6.0i	1993-96	MG ZS Series	2001 ->	Series 400	1995-00
LAND ROVER		MG ZT Series	2001 ->	Series 45	2000 ->
Freelander 1.8 16V	1998 ->	MG MGF Series	1995-02	Series 75	1999 ->
LOTUS				825 Si, Lux	1996-99
Elise 1.8, 1.8 16V	1995 ->			Cabriolet. Coupe	1993-99
Exige 1.8 16V	2001 ->			Streetwise 1.4	2003 ->



Reemplaza / Suitable:	
Jaguar	LHE 1600 AA
Land Rover	MEK100060L
Rover	MEK 100060
Unipart	GTR 206



12x1,5

33600

Aislante verde / Green colour

ALFA ROMEO	JAGUAR	ROVER
BMW	JEEP	SAAB
CITROËN	LANCIA	
FIAT	LAND ROVER	
FORD	OPEL	



Reemplaza / Suitable:	
Alfa Romeo	60573388
BMW	13 62 2 242 184
Bosch	0 280 130 055
Fiat	7738223
Ford	7072695
Opel	1338454
PSA	1920.3F
Rover	MVK10002



12x1,5

33610

Aislante negro / Black colour

VOLKSWAGEN	VOLKSWAGEN COMM.
Golf / Jetta 1.05, 1.3	1985-87
Golf / Jetta 1.5, 1.6	1985-87
Golf / Jetta 1.6 i, 1.8 GTI	1985-87
Golf / Jetta 1.6 Diesel	1985-87
Passat 1.3, 1.6, 1.8, 2.0	1984-88
Polo. Classic. Coupé	1985-88
Santana	1985-88
Scirocco 1.1, 1.3, 1.5, 1.8	1985-88
Scirocco 1.6 i, 1.8 i	1985-88



Reemplaza / Suitable:	
Volkswagen	251 919 501



20 mm

33620

Aislante negro, Punto verde / Black colour, Green dot

AUDI		VOLKSWAGEN		VOLKSWAGEN COMM.	
80 Diesel, Turbo D	1988-94	Corrado G60 (PG)	1988-93	Caddy	1983-92
80 1.9 TDI (1Z)	1991-94	Derby	1988-91	Caravelle 1.9 D (1X)	1990-95
FORD		Golf / Jetta / Scirocco	1988-92	Caravelle 1.9 Turbo D (ABL)	1992-98
Galaxy 2.8 i V6 (A.A.)	1995-99	Passat	1988-93	Caravelle 2.4 D (AAB)	1990-98
SEAT		Passat 2.8 i VR6 (AAA)	1994-99	LT 2.4 i (1E)	1989-96
Alhambra (A.A.)	1996-99	Polo. Classic. Coupé	1988-90	Transporter 1.9 D (1X)	1990-95
Ibiza 1.05 i, 1.3 i	1993-96	Polo 1.05 i, 1.3 i, Digifant	1991-95	Transporter 1.9 TD (ABL)	1992-98
Terra Diesel	1990-94	Polo 1.4 Diesel (1W)	1991-95	Transporter 2.4 D (AAB)	1990-98
Toledo 1.6 i, 1.8 i, 2.0 i	1991-96	Polo G40	1991-95	Transporter T2	1987-90



Reemplaza / Suitable:	
Audi-Seat-VW	251 919 501 A 251 919 501 D
Ford	1669949 95VW-10884-BA



20 mm

33630

Aislante azul / Blue colour

AUDI		SEAT		VOLKSWAGEN Cont.	
80	1988-94	Alhambra 1.9 TDI 90 cv.	1996-99	Golf / Jetta / Scirocco	1985-92
100 2.0 E	1991-94	Alhambra 2.0 i (ADY)	1996-99	Passat	1988-98
A 4 1.6 i (ADP)	1995-98	Cordoba	1993-99	Polo. Classic. Coupe	1989-98
A 4 1.9 TDI 90/110 cv.	1995-98	Ibiza	1993-99	Vento 2.8 VR6 (AAA)	1992-98
A 6 1.9 TDI 90 cv. (1Z)	1994-95	Inca	1996-99	VOLKSWAGEN COMM.	
A 6 2.0 i (AAE, ABK)	1994-97	Toledo 1.6 i, 1.8 i, 2.0 i	1991-96	Caddy	1989-92
Coupe 2.0 E 4 cil. (AAD)	1990-91	Toledo 1.9 TDI 90 cv.	1996-99	Caravelle 2.0i, 2.5i. Digifant	1991-98
FORD		VOLKSWAGEN		LT 2.4 i (1E)	1989-96
Galaxy (A.A.)	1995-99	Corrado 2.9 VR6 Digifant	1991-99	Transporter 2.0 i, 2.5 i	1991-98



Reemplaza / Suitable:	
Audi-Seat-VW	025 906 041 A
Ford	1669965 95VW12A648-BA



20 mm

33640

Aislante negro, Punto amarillo / Black colour, Yellow dot

FORD	SEAT	VOLKSWAGEN
Galaxy 1.9 TDI	1995-06	
		1993-03
	SKODA	
		1994-01



Reemplaza / Suitable:	
Ford	1331294 1669948 95VW-10884-AA 95VW-10884-AB
VW	357 919 501 A 6U0 919 501 B



20 mm

33650

Aislante negro, Aro verde / Black colour, Green ring

SEAT		SEAT Cont.		VOLKSWAGEN	
Alhambra 1.9 TDI (1Z,AHU)	1996-00	Inca 1.7 Diesel (AHB)	1996-03	Caddy II 1.9 D, SDI, TDI	1996-04
Cordoba 1.9 D (1Y)	1993-97	Inca 1.9 D (1Y)	1996-03	Golf 1.9 Turbo D (AAZ)	1992-98
Cordoba 1.9 SDI (AEY)	1996-99	Inca 1.9 SDI (AEY)	1996-03	Passat 1.9 D (1Y)	1991-97
Cordoba 1.9 TD (AAZ)	1993-99	Toledo 1.9 D (1Y)	1991-97	Passat 1.9 Turbo D (AAZ)	1991-97
Ibiza 1.9 D (1Y)	1993-99	Toledo 1.9 Turbo D (AAZ)	1991-97	Polo 1.9 D (AEF)	1995-01
Ibiza 1.9 SDI (AEY)	1996-99	SKODA			
Ibiza 1.9 Turbo D (AAZ)	1993-99	Fabia 1.4, Kombi	2000-07	LT 2.4 D (ACL, ACT)	1992-96
Ibiza 1.9 TDI 90 cv. (1Z)	1997-99	Felicia I	1994-98	Transporter 1.9 TD, 2.4 D	1992-03
Ibiza 1.9 TDI 90/110 cv.	1997-99	Felicia II 1.3, 1.9 D	1998-01	Vento 1.9 D (1Y)	1992-98
				Vento 1.9 Turbo D (AAZ)	1992-98



Reemplaza / Suitable:	
Seat-VW	357 919 501 357 919 501 B



20 mm



33660

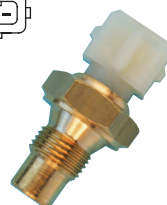
Aislante blanco / White colour

CITROËN

AX 954, 1.1, 1.4. (Carb. TU)	1986-92
AX 954 i, 1.1 i. (TU Inj.)	1991-96
AX 1.3 Sport (TU2/4)	1987-92
AX 1.4 i (TU3FM)	1991-96
AX 1.4 GTi (TU3FJ2)	1986-96
BX 1.1, 1.6, 1.9. Carb.	1983-93
BX 1.4 i, 1.6 i, 1.9 i	1987-93
CX 25 RI, TRI, GTi	1985-89
CX 25 Turbo Injection	1985-89

FIAT COMM.

Ducato 2.0	1990-94
PEUGEOT	
205 1.4 (TU3CP)	1983-90
PEUGEOT COMM.	
J 5 1.9 (XN1TA)	1989-93

 Temperatura de aceite.
 Oil temperature.
 Temperature d'huile.

Reemplaza / Suitable:

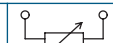
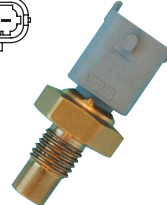
Citroën	95.631.379
Fiat	9563138080
Peugeot	0242.61

33670

Aislante gris / Grey colour

OPEL

Omega B 2.0 16V	1994-99
Vectra A 2.0i 16V, 4x4	1994-95
Vectra B 1.8i 16V	1996-00
Vectra B 2.0i 16V	1996-00


Reemplaza / Suitable:

G.M.	90573077
Opel	1342855
Siemens	5WK90612
	S107160001

33680

Aislante negro / Black colour

ALFA ROMEO

Alfa 159 1.8 MPI	2007 ->
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FIAT

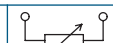
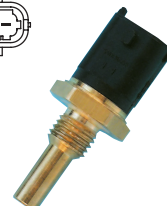
Croma 1.8 16V	2006 ->
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OPEL

Astra G 1.8 16V, 2.0 16V	1998-05
Astra H 1.6, 1.8	2006 ->
Astra H GTC 1.6, 1.8	2005 ->
Astra H TwinTop 1.6, 1.8	2005 ->
Corsa C 1.8	2000 ->
Meriva 1.8	2003 ->
Omega B 2.2 16V	1999-03
Signum 1.8	2003 ->
Tigra TwinTop 1.8	2004 ->

OPEL Cont.

Vectra B 1.8i 16V	1995-02
Vectra C 1.8, GTS	2006 ->
Vectra C 1.8 16V, GTS	2002 ->
Zafira 1.8 16V	1999-05
Zafira 1.6, 1.8	2005 ->
SAAB	
9-3 1.8i	2004 ->


Reemplaza / Suitable:

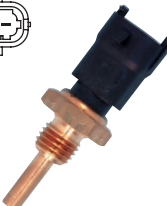
Alfa Romeo	55353809
Fiat	71746355
G.M.	90530444
Opel	1342570
	1342571
	6338046
Siemens	5WK96055
	S105493001

33685

Aislante negro / Black colour

OPEL

Astra G 1.4i, 1.6i 16V	1998-05
Astra H 1.6i 16V	2005 ->
Corsa C 1.4i, 1.6i 16V	2000 ->
Meriva	2002 ->
Vectra B 1.6i 16V	2000-05
Zafira 1.6i 16V	2000 ->


Reemplaza / Suitable:

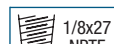
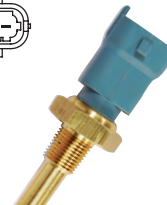
G. M.	93174208
Opel	6238266
	1342567

33690

Aislante azul claro / Light Blue colour

OPEL

Astra F 1.7 TD, Van	1994-99
Astra G 1.7 TD	1998-00
Astra G 1.7 TD Furgon	1998-05


Reemplaza / Suitable:

Bosch	0281 002 259
G.M.	09117449
Opel	1338469

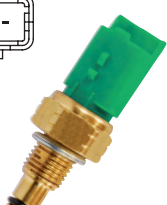
 Motores/Engines/Moteurs:
 X17DTL.

33695

Aislante verde / Green colour

NISSAN

Almera II 1.5 dCi	2003 ->
Kubistar 1.5 dCi	2003 ->
Kubistar Furgón 1.5 dCi	2003 ->
Micra 1.5 dCi	2003 ->
Note 1.5 dCi	2006 ->


Reemplaza / Suitable:

Nissan	16970-BN700
	22670-00QAC

33700

Aislante verde / Green colour

ALFA ROMEO

--	--

FIAT

--	--

FORD

--	--

GENERAL MOTORS

--	--

IVECO

--	--

LANCIA

--	--

OPEL

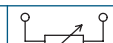
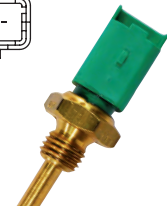
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SAAB

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SUZUKI

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Reemplaza / Suitable:

Fiat	55188058
	55193203
Ford	1538606
G.M.	55193203
Opel	1338040
	4708762
Saab	55 193 203
Suzuki	13650-84E50

33704

Aislante marrón / Brown colour

ALFA ROMEO

Mito 1.4 TB	2008 ->
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FIAT

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500 1.2, 1.4 Abarth	2007 ->
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Bravo 1.4 T-Jet	2007 ->
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Doblo 1.4, Cargo	2005 ->
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Grande Punto 1.2	2005 ->
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Grande Punto 1.4	2005 ->
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Grande Punto 1.4 16V	2005 ->
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Grande Punto 1.4 T-Jet	2007 ->
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FIAT Cont.

Idea 1.4	2005 ->
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Idea 1.4 16V	2004 ->
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Linea 1.4	2007 ->
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Linea 1.4 T-Jet	2007 ->
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Punto 1.4	2003 ->
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Stilo 1.4 16V	2004 ->
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Stilo Multiwagon 1.4 16V	2005 ->
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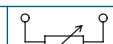
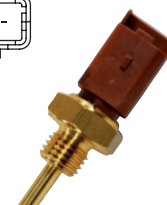
LANCIA

Delta III 1.4	2008 ->
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Mussa 1.4 78 cv.	2005 ->
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Mussa 1.4 95 cv.	2004 ->
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Ypsilon 1.4	2003 ->
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Reemplaza / Suitable:

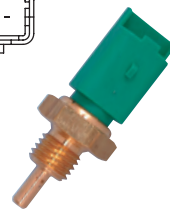
Fiat	55190791
	77363465



33705

Aislante verde / Green colour

CITROËN	LANCIA	RENAULT
FIAT	PEUGEOT	TOYOTA

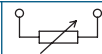


Reemplaza / Suitable:

Citroën	96.368.023
Fiat	9628454680
	9636777180
Peugeot	1338.88
	1338.A7
Renault	96 36 777 180
Toyota	89422-02020



12x1,5



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33706

Aislante verde / Green colour

CITROËN	LANCIA	PEUGEOT
FIAT	MAZDA	SUZUKI
FORD	MINI	TOYOTA
		VOLVO

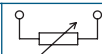


Reemplaza / Suitable:

Citroën	96.325.624
Fiat	9632562080
Ford	1204700,1342631
	2S6Q12A648AA
PSA	1338.C1
Suzuki	13650-73J00
Toyota	SU001-00639
Volvo	30757235



20 mm

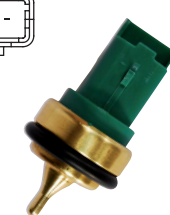


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33707

Aislante verde / Green colour

CITROËN	MINI	PEUGEOT
Berlingo 1.6, 1.6 16V	2000 -> Mini Cooper, S	2006 -> 1007 1.4, 1.6, 16V
C2 1.4, 1.6, 16V	2003 -> Mini One	2007 -> 206 1.4, 1.6, 16V
C3 1.4, 1.6, 16V	2002 -> Mini Clubman, Cabrio	2007 -> 207 1.4, 1.6, 16V
C3 Pluriel 1.6	2003 ->	307 1.4, 1.6, 16V, Break
C4 1.4, 1.6, 16V	2004 ->	308 1.4, 1.6, 16V
C4 Picasso, Grand Picasso	2008 ->	Partner 1.6 16V
XSara Picasso 1.6 16V	2005 ->	Partner 1.6, Tepee
		Ranch 1.6 16V
		2001 ->

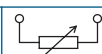


Reemplaza / Suitable:

Citroën	96.566.364
Mini	13 62 7 535 068
PSA	1338.F3
	1338.F8



20 mm

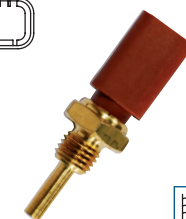


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33710

Aislante marrón / Brown colour

FIAT
Marea 1.9 JTD
Marea 2.4 JTD
Multipla 1.6 i 16V
Multipla 1.9 JTD
Multipla 2.4 JTD
Seicento 900i

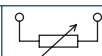


Reemplaza / Suitable:

Fiat	46520384
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12x1,5

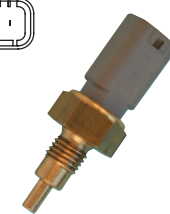


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33720

Aislante gris / Grey colour

ALFA ROMEO	FIAT	LANCIA
145	1996-01 Barchetta	1995 -> Dedra
146	1996-01 Brava / Bravo	1996-01 Delta II
156, Sportwagon	1997-05 Coupe	1996-00 Kappa
166	1998 -> Marea, Marea Weekend	1999 -> Lybra
GTV	1996-00 Multipla	1999 -> Y 1.2 16V
Spider	1998-05 Palio	1997-03
	Punto	
	Sienna	

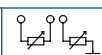


Reemplaza / Suitable:

Alfa Romeo	60814402
Fiat	46474712
	46474713



12x1,5

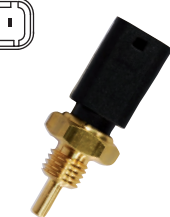


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33721

Aislante negro / Black colour

FIAT
Palio 75 1.2i
Palio 1.2i Weekend
Sienna 1.2
Strada 1.2i
Strada Trekking

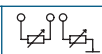


Reemplaza / Suitable:

Fiat	46474599
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12x1,5

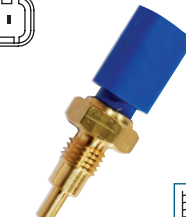


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33722

Aislante azul / Blue colour

FIAT	FIAT BRASIL
Palio 0.9i, EDX	1998 -> Palio 1.0i EDX, ELX, EX
Palio 1.4i EL	1998 -> Palio 1.0i Young (MPI)
Palio 1.4i (TR) (178B200)	1997 -> Palio 1.5i (MPI)
Palio Weekend 1.4i	1998 -> Siena 1.0i (MPI)
Sienna 1.4i EL	1997 -> Siena 1.5i (MPI)
	1999-00 Siena 1.6i City, ELX
	1999-00 Strada 1.5i Working
	1999-01 Strada 1.6i 8V

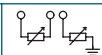


Reemplaza / Suitable:

Fiat	46474600
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12x1,5



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33723

Aislante negro / Black colour

ALFA ROMEO	FIAT	FIAT BRASIL
147 Twin Spark	2001 -> Barchetta 1.8 16V	2002 -> Brava 1.6i 16V
156, 156 Sportwagon	2000-05 Bravo 1.2 16V, 1.9 JTD	2000-01 Palio 1.3i 16V
166	2000 -> Linea 1.3 D Multijet	2007 -> Siena 1.3i 16V
GT	2003 -> Marea	2001 -> LANCIA
GTV	2001 -> Multipla	2002 -> Lybra, Libra SW
Spider	2003-05 Palio Weekend	2001 -> Thesis
	Stilo 1.8i 16V, 2.4i 20V	2002 -> Y 1.2, 1.2 16V
	Stilo Multi Wagon	2000-03
	Strada	



Reemplaza / Suitable:

Alfa Romeo	46753479
	60816476
Fiat	46753479
	71718201
	77363458



12x1,5



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33724

Aislante negro / Black colour

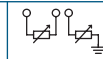
DACIA	RENAULT	RENAULT Cont.
Logan 1.4, 1.6	Avantime 2.0i 16V	Megane I
Logan MCV 1.4, 1.6	Clio II	Megane II
Sandero 1.4, 1.6	Clio III 1.2 16V	Modus 1.2
NISSAN	Espace III 2.0, 2.0 16V	Scenic I
Kubistar	Espace IV 2.0	Scenic II
Primastar 2.0	Kangoo. Kangoo Express	Trafic II 2.0, 2.0 16V
OPEL	Laguna	Twingo
Movano 2.5 D, 2.8 DTI	Laguna II	Vel Satis
Vivaro 2.0i 16V, 2.0 Ecotec	Master II 2.8 dTI	



Reemplaza / Suitable:
G.M. 91159949
 93198313
Nissan 22630-00QAB
Opel 4408333
 4434334
Renault 77 00 101 968
 77 00 113 867
 82 00 561 449



12x1,5



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33725

Aislante rojo / Red colour

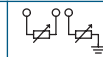
FIAT
Palio 75 1.2i
Palio 1.2i (178B7045)
Punto 75 1.2i
Siena 1.2i EL



Reemplaza / Suitable:
Fiat 46520915



12x1,5



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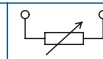
33730

Aislante marrón / Brown colour

FORD USA	MERCURY
Contour (DOHC)	Cougar DOHC
Crown Victoria SOHC	Grand Marquis
Escort, SPI, SOHC	Mystique DOHC
Explorer	Tracer, SPI, SOHC
Mountaineer	
Mustang	
Ranger	
Taurus	
Windstar	



Reemplaza / Suitable:
Ford 3901186
 F6DZ-10884 AA
 F7DZ-10884 AA
 F77F-10884 AB
Motorcraft SW-5174

3/8x18
NPTF

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33735

Aislante gris / Grey colour

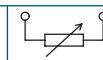
FORD	FORD (USA)	MAZDA Cont.
C-Max 1.8, 2.0	Explorer 4.0 V6	626 V 1.8, 2.0
Escort VII 1.6, 1.8, 16V	JAGUAR	CX-7 2.3
Fiesta V ST150	S-Type 4.0 V8, 4.2 V8	MPV II 2.3
Focus II 1.8, 2.0	XJ6, XJ8	MX-5 1.8, 2.0
Galaxy 2.0, 2.3	XX8, Coupe, Cabrio	VOLVO
Mondeo II, III Gasolina/Petrol	MAZDA	C30 1.8, 2.0
Mondeo IV 2.0, 2.3	3 2.0, 2.3	S40 II 1.8, 2.0
S-Max 2.0, 2.3	5 1.8, 2.0	V50 1.8, 2.0
Transit 2.3 16V	6 1.8, 2.0, 2.3	V70 III 2.0



Reemplaza / Suitable:
Ford 1047284
 3929104
 F8CZ12A648AA
 LRA 1600BA
Jaguar MFSB9-18-840
Kia LF01-18-840
Mazda 30658181
Volvo 30777334



12x1,5



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33736

Aislante gris / Grey colour

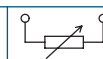
FORD
Fiesta V 1.3 60 cv.
Fiesta V 1.3 69 cv.
Focus 1.6 Rocam
Ikon 1.3 Rocam
Ikon 1.6 EFI Rocam
KA 1.3 i 60 cv.
KA 1.3 i 69 cv.
Street KA 1.6



Reemplaza / Suitable:
Ford 1089854
 XS6F12A648BA



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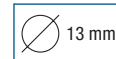
33740

Aislante marrón / Brown colour

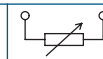
FORD USA	MERCURY
Escort 2.0 (DOHC)	Cougar (DOHC)
Contour 2.0 (DOHC)	Mistique 2.0 (DOHC)
	Tracer 2.0 (DOHC)



Reemplaza / Suitable:
Ford XS2Z-10884 AA
Motorcraft SW-5491



13 mm



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33745

Aislante gris / Grey colour

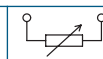
FORD	FORD Cont.	VOLVO
C-Max 1.6, 1.8, 2.0	Mondeo III Gasolina/Petrol	C30 1.8, 2.0
Cougar 2.5 V6	Mondeo IV Gasolina/Petrol	S40 II 1.8, 2.0
Fiesta V Gasolina/Petrol	S-Max 2.0, 2.3	V50 1.8, 2.0
Fiesta VI Gasolina/Petrol		V70 III 2.0
Focus II Gasolina/Petrol		
Fusion 1.25, 1.4, 1.6		
Galaxy 2.0, 2.3		
Maverick 3.0 V6		
Mondeo II Gasolina/Petrol		



Reemplaza / Suitable:
Ford 1109340
 1458378
 4093827
 4529853
 1L2A-12A648AA
 1L2Z-12A648AA
 XS6F-12A648CA
Motorcraft DY-882



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33746

Aislante negro / Black colour

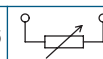
FORD
Fiesta IV 1.6 16V Sport
Focus 1.4 16V
Focus 1.6 16V
Focus 1.6 FFV
Focus C-Max 1.6
Puma 1.6 16V



Reemplaza / Suitable:
Ford 3857955
 F65F6G004AB



12x1,75



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33750

Aislante marrón / Brown colour

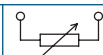
FORD USA		FORD USA		MERCURY	
Cougar 2.0 16V	1998-01	Escort, Coupe, (DOHC)	1998-00	Cougar (DOHC)	1999-00
Mondeo II 1.6i, 1.8i, 2.0i	1996-00	Contour 2.5 (DOHC)	1998-99	Mistique 2.0 (DOHC)	1998-00
Mondeo II 1.6 16V	1998-00			Mistique 2.5 (DOHC)	1998-99
Transit 2.0	1994-00			Tracer (DOHC)	1998-99
Transit Tourneo 2.0	1995-00			Trace (SOHC)	1998-00



Reemplaza / Suitable:
Ford 3936774
F7CZ-10884 BA
F77F-10884 BB
Motorcraft SW-5157



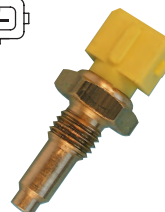
1/8x27
NPTF



33760

Aislante amarillo / Yellow colour

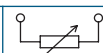
FIAT		LANCIA	
Brava 1.6 i 16V	1995-01	Delta 1.6 i 16V 90 cv.	1996-99
Bravo 1.6 i 16V	1995-01	Delta 1.6 i 16V 103 cv.	1996-99
Marea 1.6 i 16V	1996 ->		
Palio 1.6 i	1997 ->		
Palio 1.6 i 16V Weekend	1997-01		
Siena 1.6 i	1998 ->		



Reemplaza / Suitable:
Fiat 46414596
500309833
Jaeger 401930



12x1,5



33770

Aislante verde, Aro rojo / Green colour. Red ring

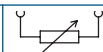
CITROEN		PEUGEOT		RENAULT	
Xantia 3.0 i 24V	1996-03	406 3.0 i V6 24V	1996-04	Espace III 3.0 V6 24V	1998-02
Xantia 3.0 V6, Break	1998-03	406 Break 3.0 V6	1996-04	Laguna 3.0 24V	1997-01
XM 3.0 V6, Break	1997-00	406 Coupe 3.0 i V6 24V	1997-04	Laguna Grandtour 3.0 24V	1997-01



Reemplaza / Suitable:
PSA 1338.75
1338.91
Renault 96 23 870 180



12x1,5



33780

Aislante azul / Blue colour

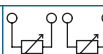
AUDI		SEAT		VOLKSWAGEN Cont.	
A 3 Gasolina/Petrol	1996-00	Alhambra 1.8 Turbo	1996-00	Passat 1.9 TDI 90/110 cv.	1996-00
A 3 1.9 TDI 90/110 cv.	1997-00	VOLKSWAGEN		Sharan 1.8 T	1996-00
A 4 1.8 20V, Turbo 20V	1995-00	Bora 2.3	1998-00		
A 4 V6. 2.4, 2.6, 2.8	1995-00	Golf 1.6 i	1997-00		
A 4 1.9 TDI 90/110 cv.	1995-00	Golf 1.8 20V	1997-00		
A 6 1.8 Turbo 150/180 cv.	1998-00	Golf 2.3	1997-00		
A 6 2.4 V6, 2.8 V6	1998-00	Golf 1.9 TDI 90/110 cv.	1997-00		
A 6 1.9 TDI 110 cv.	1998-00	Passat 1.6 i	1996-00		
		Passat 1.8 20V, Turbo, 2.3	1996-00	Ver/See/Voir Ref. FAE 33782	



Reemplaza / Suitable:
Seat-VW 078 919 501 B



20 mm



33781

Aislante negro, Punto amarillo / Black colour, Yellow dot

AUDI		SEAT		VOLKSWAGEN	
A3	1997-04	Cordoba 1.6i, Vario	1999-02	Golf IV 2.3i V5 4Motion	1998-00
A3 T, A3 Quattro	1997-04	Cordoba 1.9 SDI, Vario	1999-02	New Beetle 1.9 TDI	1998-01
A4, A4 T	1995-00	Cordoba 1.9 TDI, Vario	1999-02	New Beetle 2.0i 16V	1998-02
A4 Quattro, Avant	1995-00	Ibiza 1.6i	1999-02	Passat 1.6i, 18i	1997-00
A6, A6 T	1997-05	Ibiza 1.8 T 20V Cupra	2000-02	Passat 1.9 TDI, Syncro	1997-00
A6 Quattro, Avant	1998-05	Ibiza 1.9 SDI	1999-02	Passat 2.3i VR5, 2.8i V6	1996-00
A8, A8 Quattro	1996-00	Ibiza 1.9 TDI	1999-02	Passat Variant	1997-00
TT 1.8 T, Quattro, Cabrio	1999-06	Toledo 2.3i V5	1999-01		

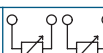
Ver/See/Voir Ref. FAE 33783



Reemplaza / Suitable:
Audi-VW 078 919 501 C



20 mm.



33782

Aislante verde / Green colour

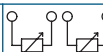
AUDI		SEAT		VOLKSWAGEN	
A 3 Gasolina/Petrol	1996-00	Alhambra 1.8 Turbo	1996-00	Golf 1.6 i	1997-00
A 3 1.9 TDI 90/110 cv.	1997-00	Arosa 1.4i	1999-04	Golf 1.8 20V, 2.3	1997-00
A 4 1.8 20V, Turbo 20V	1995-00	Arosa 1.4i 16V	1998-04	Golf 1.9 TDI 90/110 cv.	1997-00
A 4 V6. 2.4, 2.6, 2.8	1995-00	Cordoba 1.4i	1999-02	Lupo 1.0i, 1.4i 16V	1999-05
A 4 1.9 TDI 90/110 cv.	1995-00	Cordoba 1.4i 16V, SX	1999-02	Passat 1.6 i	1996-00
A 6 1.8 Turbo 150/180 cv.	1998-00	Cordoba Vario 1.4i	1999-02	Passat 1.8 20V, Turbo, 2.3	1996-00
A 6 2.4 V6, 2.8 V6	1998-00	Cordoba Vario 1.4i 16V	1999-02	Passat 1.9 TDI 90/110 cv.	1996-00
A 6 1.9 TDI 110 cv.	1998-00	Ibiza 1.4i	1999-02	Polo 1.4i, 1.6i 16V	1997-99
A 6 Avant Quattro 2.5i 24V	1997-00	Ibiza 1.4i 16V	1999-02	Sharan 1.8 T	1996-00



Reemplaza / Suitable:
Seat-VW 059 919 501
4A0 919 501 A



20 mm



33783

Aislante verde, punto amarillo / Green colour, yellow dot

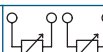
AUDI		SEAT		VOLKSWAGEN	
A2 1.4i, 1.4 TDI	2000-05	Alhambra 1.9 TDI	2000 ->	Bora. Estate, Variant	1999-05
A4 2.5 TDI, Quattro, Avant	1997-01	Arosa 1.0i, 1.4i	1997-04	Caddy II	1996-04
A4 2.8i, Quattro, Avant	1996-01	Cordoba 1.4i 16V, 1.6i	1999-02	Golf IV. Variant	1997-05
A6 2.5 TDI, Quattro, Avant	1997-02	Ibiza 1.4i 16V, 1.6i	1999-02	Jetta III 1.6	2005 ->
A6 4.2i Quattro, Avant	1999-02	Leon	2000-06	Lupo	1999-05
A8 2.5 TDI, Quattro	1997-02	Toledo	1999-06	New Beetle	1999 ->
A8 3.7i, 4.2i, Quattro	1999-02	SKODA		Passat. Syncro, Variant	2000-05
FORD		Octavia. Octavia Combi	1997 ->	Polo	1999-01
Galaxy 1.9 TDI	1996-06	SuperB	2002-08	Sharan 1.9 TDI	2000 ->



Reemplaza / Suitable:
Audi-VW 059 919 501 A
1100619
Ford 1124770
XM21-10884-BA



20 mm.



33784

Aislante gris, Punto amarillo / Grey colour, Yellow dot

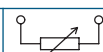
AUDI		FORD		SEAT	
A2 1.6 FSI	2002-05	Galaxy 1.9 TDI, 2.8 V6	2000-06	Todos lo modelos/All models	1997 ->
A3	2000 ->	MERCEDES BENZ			
A4	2000 ->	Clase V V280	1997-03	SKODA	
A5	2007 ->	MITSUBISHI		Todos lo modelos/All models	1999 ->
A6	2001 ->	Grandis 2.0 DI-D	2005 ->		
A8	2003 ->	Outlander 2.0 DI-D	2007 ->	VOLKSWAGEN	
Q5	2008 ->	PORSCHE		Todos lo modelos/All models	1997 ->
Q7	2006 ->	Boxster	2004 ->		
TT	2006 ->	Cayman	2005 ->		



Reemplaza / Suitable:
Audi-VW 06A 919 501
Ford 06A 919 501 A
1100736
1459209
XM21-10884-BA
Mercedes 013 542 78 17
Mitsubishi MN-980152
Porsche 955 106 125 00



20 mm.



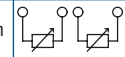


33785

Aislante negro, Punto blanco / Black colour, White dot

AUDI	
A 4 1.6, Avant	1995-00
A 4 1.8, Avant, Quattro	1995-00
A 4 1.8 T, Avant, Quattro	1995-00
A 4 1.9 TDI, Avant, Quattro	1995-00
A 4 2.4, Avant	1995-97
A 4 2.6, Avant, Quattro	1995-00
A 4 2.8, Avant, Quattro	1995-97
A 6 1.8, Avant	1995-97
A 6 2.4	1995-97

AUDI Cont.	
A 6 2.6, Avant	1994-97
A 6 2.8, Avant	1994-97
Cabriolet 2.6	1993-00
Cabriolet 2.8	1992-00
Coupe 2.6	1992-96
Coupe 2.8	1991-96


Reemplaza / Suitable:
 Seat-VW 058 919 501 A

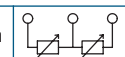
33790

Aislante azul, Punto verde / Blue colour, green dot

CITROËN	
Berlingo 2.0 HDI	1999-02
Jumper 2.0 HDI	2002 ->
Jumper 2.2 HDI	2002 ->
XSara 2.0 HDI 90	1999-05
XSara Coupe 2.0 HDI	1999-05
XSara Break 2.0 HDI	1999-05

FIAT	
Ducato 2.0 JTD Bus	2002 ->
Ducato 2.0 JTD Furgon	2002 ->

PEUGEOT	
206 2.0 HDI 90	2000 ->
306 2.0 HDI 90	1999-01
306 Break 2.0 HDI	1999-02
Boxer 2.0 HDI	2002 ->
Boxer 2.2 HDI	2002 ->
Partner 2.0 HDI	2000 ->
Ranch 2.0 HDI	1999 ->


Reemplaza / Suitable:
 Citroën 96.335.188
 Fiat 96333518880
 Peugeot 1338.C0

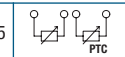
33791

Aislante azul / Blue colour

CITROËN	
Berlingo 1.9 D, 4WD	1998 ->
Berlingo 1.9 D 70	1998 ->
Jumpy 1.9 D 70	1998 ->
XSara 1.9 D, Break	1998-05

FIAT	
Scudo 1.9 D, Combinato	1998 ->

PEUGEOT	
206	1998-01
306	1997-02
Expert	1997 ->
Partner	1998 ->
Ranch	1997 ->


Reemplaza / Suitable:
 Citroën 96.250.272
 Fiat 9625027280
 Peugeot 1338.87

33792

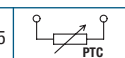
Aislante marrón / Brown colour

CITROËN	
AX	1991-96
Berlingo	1996-99
Evasion	1996-02
Jumper, Jumpy	1994-02
Saxo	1996-00
Xantia	1993-98
XM	1989-00
XSara	1997-00
ZX	1991-98

FIAT	
Ducato 2.0, 4x4	1994-02
Scudo 1.9 D, TD	1996-00
Ulysse	1995-02

PEUGEOT	
106	1991-96
306	1993-00
405	1992-96
406	1996-04
605	1989-99
806	1995-02
Boxer	1994-02
Expert	1996-02
Partner	1996-02

LANCIA	
Zeta 2.0 16V	1998-00
Zeta 2.1 TD	1996-99


Reemplaza / Suitable:
 Citroën 96.033.248
 Fiat 9603324880
 Peugeot 9621000680
 1338.10
 1338.55
 1338.56
 1338.84

33795

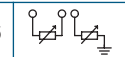
Aislante azul, Punto amarillo / Blue colour, yellow dot

CITROËN	
Berlingo Gasolina/Petrol	1996 ->
Berlingo 1.6, Furgón	2008 ->
C3, C3 Pluriel	2002 ->
Jumper 2.0i	2002 ->
Jumpy 2.0 HDI 95, 110	2000 ->
Saxo 1.1i, 1.4i, 1.6i VTS	1996-02
Xantia 2.0 HDI 90, 109	1999-02
XSara, Break, Coupe	1999-05
XSara Picasso	2000 ->

FIAT	
Ducato 2.0i	2002 ->
Scudo 2.0 JTD	2000 ->
Ulysse 2.0 JTD	2002 ->

PEUGEOT Cont.	
307 1.4, 1.6, SW	2000 ->
406 2.0 HDI, Break	1998-04
807 2.0 HDI	2002-06
Boxer 2.0 i	1994-02
Partner, Expert	1996 ->
RENAULT	
Clio II 3.0 V6	2000-02
SUZUKI	
Vitara 2.0 TD Intercooler (ET)	1996-98

PEUGEOT	
1007 1.4	2005 ->
106 II 1.1i, 1.4i, 1.6 S16	1996 ->
206, 206 SW	1998 ->
207 1.4, SW	2006 ->
306, Cabriolet, Break	1998-02


Reemplaza / Suitable:
 Citroën 96.310.010
 96.368.027
 Fiat 9631000880
 Peugeot 1338.97
 1338.A6
 Renault 96 36 777 280
 Suzuki 13650-86CT0

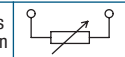
33800

Aislante negro / Black colour

HYUNDAI	
Elantra	1990-95
Excel 1.3, 1.5i	1989-94
H100 2.4	1993-00
Lantra 1.5i, 1.6i, 1.8i, 16V	1991-95
Pony 1.3, 1.5i	1989-94
Precis 1.5i	1989 ->
SCoupe 1.5i, GS, GSI	1990-92
Sonata I	1988-93
Sonata II	1993-98

MITSUBISHI	
Colt II 1.5 GLX	1984-88
Colt III	1988-92
Colt IV 1.3 GLi 12 V	1992-96
Eclipse I 2.0i 16V	1991-95
Eclipse II 2000 16V	1995-99
Galant II, III, IV, V, 2.0, Turbo	1980-96
Galant VI 2.0	1996-04
Lancer III, IV	1985-92
Lancer VI	1996-03

MITSUBISHI Cont.	
Mirage 1.6i	1990-92
Montero 3.0 V6	1988-90
Pajero 2.6, 3.0i	1983-91
Pick-up	1986-94
Precis 1.5i	1989-99
Shogun 2.6, 3.0i	1984-91
Starion Turbo ECI	1982-90
Truck 2.4i, 2.6, 3.0i V6	1986 ->
Valley 2.0, 2.4i, GLS, GLX	1992-94


Reemplaza / Suitable:
 Hyundai 39220-21310
 39220-21320
 39220-21330
 Mitsubishi 39220-21310
 39220-21320
 MD-069879

33810

Aislante negro / Black colour

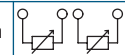
DACIA	
Duster 1.5 dCi	2010 ->
Logan 1.5 dCi, MCV	2006 ->
MITSUBISHI	
Carisma 1.9 DI-D	2000-06
Space Star 1.9 DI-D	2001 ->
NISSAN	
Interstar, Kubistar, Primastar	2002 ->
Micra 1.5 dCi	2003 ->
Note 1.5 dCi	2006 ->

NISSAN Cont.	
Primera 1.9 dCi	2003 ->
Qashqai 1.5 dCi	2007 ->
Tejida 1.5 dCi	2007 ->

SUZUKI	
Grand Vitara 1.9 DDIs	2005 ->
Jimny 1.5 DDIs	2004 ->
VOLVO	
S40 1.9 DI	2000-03
V40 1.9 DI	2000-04

OPEL	
Movano DTI, CDTI	2000 ->
Vivaro DTI, CDTI	2003 ->

RENAULT	
Todos modelos/All Models	
dCi, Dci, dTi, DTI	1999 ->

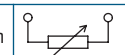
 Montado sobre Termostato.
 Fitted above thermostat.
 Monté sur le thermostat.

Reemplaza / Suitable:
 G.M. 9110578
 M-883623
 Mitsubishi 22630-00QAD, F
 Nissan 22630-BN702
 Opel 4402578
 Renault 7700 105 087
 Suzuki 13650-84A00
 Volvo 30883623

33811

NISSAN	
Primastar dCi	2003 ->
Qashqai 2.0 dCi	2007 ->
X-Trail 2.0 dCi	2007 ->
OPEL	
Vivaro 2.0 CDTI	2006 ->
Vivaro 2.5 CDTI	2006 ->
Vivaro 2.5 DTI	2003 ->

RENAULT	
Clio III 1.2, 1.4, 1.6	2005 ->
Espace IV 2.0 dCi	2006 ->
Grand Scénic II	2004 ->
Laguna II, III	2005 ->
Master III 2.5 dCi	2006 ->
Megane II 1.4 16V	2003 ->
Megane II 1.6 16V	2002 ->
Megane II 1.9 dCi	2002 ->
Megane II 2.0 dCi	2005 ->

RENAULT Cont.	
Modus 1.2, 1.4, 1.6	2004 ->
Scénic II	2003 ->
Trafic II 2.0 dCi 115	2006 ->
Trafic II 2.0 dCi 90	2006 ->
Trafic II 2.5 dCi 145	2006 ->
Vel Satis 2.0 dCi	2006 ->

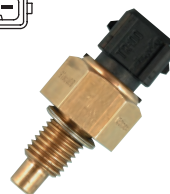

Reemplaza / Suitable:
 GM 93198034
 Nissan 22630-00AOK
 22630-00QOF
 Opel 4431529
 4433120
 Renault 82 00 385 782
 82 00 421 597
 82 00 650 777



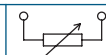
33820

Aislante negro / Black colour

VOLVO		VOLVO Cont.		VOLVO Cont.	
S40 1.6 105 cv.	1995-99	S40 2.0 T4	2000-03	V40 2.0 T 165 cv.	2000-01
S40 1.6 109 cv.	1999-03	V40 1.6 105 cv.	1995-99	V40 2.0 T4	2000-03
S40 1.8 115 cv.	1995-99	V40 1.6 109 cv.	1999-03		
S40 1.8 122 cv.	1999-03	V40 1.8 115 cv.	1995-99		
S40 1.9 T4	1997-00	V40 1.8 122 cv.	1999-03		
S40 2.0 136 cv.	1995-03	V40 1.9 T4	1997-00		
S40 2.0 140 cv.	1999-03	V40 2.0 140 cv.	1995-99		
S40 2.0 T 160 cv.	1997-00	V40 2.0 T 160 cv.	1997-00		
S40 2.0 T 163 cv.	2001-03	V40 2.0 T 163 cv.	2001-03		



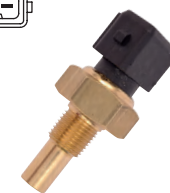
Reemplaza / Suitable:
Volvo 9186008



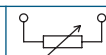
33830

Aislante negro / Black colour

VOLVO	
S40 1.8 i (B4184 SJ)	2001-03
S40 1.8 i (B4184 SM)	1998-03
S40 Wagon 1.8 i (B4184 SJ)	2001-03
S40 Wagon 1.8 i (B4184 SM)	1998-03



Reemplaza / Suitable:
Volvo 30862221



33835

FORD		VOLVO		VOLVO Cont.	
FOCUS II 2.5 ST	2005 ->	C30 2.4 i	2006 ->	V50 T5	2004 ->
MONDEO IV 2.5	2007 ->	C30 T5	2006 ->	V70 III Kombi 2.5 T	2007 ->
S-MAX 2.5 ST	2006 ->	C70 II Cabriolet	2006 ->	V70 III Kombi 3.0 T6 AWD	2007 ->
		S40 II 2.4	2004 ->	V70 III Kombi 3.2	2007 ->
		S40 II T5	2004 ->	XC 90 3.2	2006 ->
		S80 II 2.5 T	2006 ->	XC70 II 3.2 AWD	2007 ->
		S80 II 3.2	2006 ->		
		S80 II T6 AWD	2007 ->		
		V50 2.4	2004 ->		

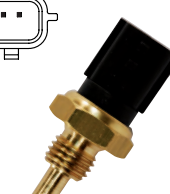


Reemplaza / Suitable:
Ford 1371592
6M5G12A648AA
Volvo 30650752
8653172

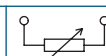


33840

RENAULT		RENAULT Cont.	
Clio III 1.2 16V	2005 ->	Megane II Sedan 1.4	2003 ->
Grand Scénic II 2.0	2004 ->	Megane II Sedan 2.0	2003 ->
Kangoo 1.6	2008 ->	Modus 1.2, 1.2 16V	2005 ->
Laguna III 2.0 GT	2008 ->	Scénic II 2.0	2003 ->
Megane II 1.4 16V	2002 ->	Scénic II 2.0 16V Turbo	2004 ->
Megane II 2.0 16V	2002 ->	Twingo 1.2	2007 ->
Megane II 2.0 16V Turbo	2004 ->	Twingo 1.2 16V	2007 ->
Megane II Kombi 1.4	2003 ->	Twingo 1.2 Turbo	2007 ->
Megane II Kombi 2.0	2003 ->		



Reemplaza / Suitable:
Renault 82 00 720 768



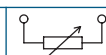
33850

Aislante verde / Green colour

FIAT		LANCIA	
Doblo 1.2, Cargo	2001 ->	Ypsilon 1.2	2003 ->
Fiorino 1.2 MPI	2004 ->		
Palio 1.2, Weekend	1997-02		
Panda 1.1, 1.2, 4x4	2003 ->		
Punto 1.2, 1.2, 60, Van	1999 ->		
Seicento 1.1	1998 ->		
Siena 1.2	2002 ->		



Reemplaza / Suitable:
Fiat 46824133
71716685
71719393



33860

Aislante negro / Black colour

DAEWOO		MERCEDES COMM.		PUCH	
Korando 3.2	1999 ->	Clase C	1993-00	G-320	1994-97
Musso 3.2	1999 ->	Clase CLK	1997-00	SSANGYONG	
		Clase E	1995-02	Korando 3.2, Cabrio	1999 ->
		Clase G	1994-97	VOLKSWAGEN	
		Clase S	1993-99	LT 28-35 II 2.3	1996-06
		Clase V	1996-03	LT 28-46 II 2.3	1996-06
		Sprinter	1995-06		
		Vito	1996-03		



Reemplaza / Suitable:
Daewoo 0115425117
Mercedes 011 542 5117
Ssangyong 0115425117
VW 02D 919 369

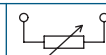


33870

SKODA		VOLKSWAGEN		VOLKSWAGEN Cont.	
Ocatavia 1.4, 1.6	1997 ->	Golf IV	1997-06	Passat 2.3	2000-05
Ocatavia 1.8	1996 ->	Lupo 1.0	1998-05	Passat 2.5	2000-05
Ocatavia 1.9	1996 ->	Lupo 1.2 TDI 3L	1999-05	Passat 2.8	2000-05
Ocatavia 2.0	1999 ->	Lupo 1.4	1998-05	Passat 4.0	2001-05
Superb 1.8, 1.9, 2.0	2002-08	Lupo 1.6 GTI	2000-05	Touareg 3.2 V6	2002-06
Superb 2.5 TDI	2002-03	Lupo 1.7 SDI	1998-05	Touareg 5.0 V10 TDI	2002-10
Superb 2.8 V6	2002-08	Passat 1.6, 1.8	2000-05		
		Passat 1.9	2000-05		
		Passat 2.0	2000-05		



Reemplaza / Suitable:
Porsche 955 572 304 00
Skoda-VW 1J0 907 543 A



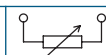
NEW 33880

Aislante negro / Black colour

MERCEDES	
C Class C 200 CDI	2007 ->
C Class C 220 CDI	2007 ->
C Class C 250 CDI	2008 ->
C Class T-Model C 200 CDI	2007 ->
C Class T-Model C 220 CDI	2007 ->
E-Class E 200 CDI	2006 ->
E-Class E 220 CDI	2006 ->
E-Class T-Model E 220 CDI	2006 ->



Reemplaza / Suitable:
Mercedes 005 153 83 28



**NEW****33890**

Aislante negro / Black colour

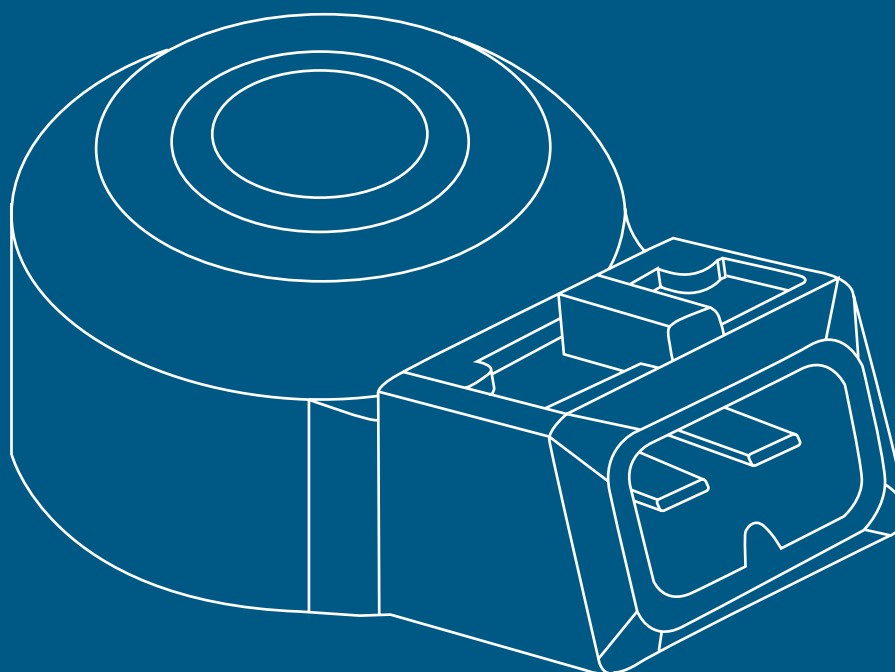
BMW		BMW Cont.		BMW Cont.	
1 116d	2009 ->	3 320xd	2007 ->	3 Touring 318d	2007 ->
1 118d	2007 ->	3 330d	2009 ->	3 Touring 320d	2007 ->
1 120d	2007 ->	3 330d xDrive	2009 ->	3 Touring 320xd	2007 ->
1 123d	2007 ->	3 Cabriolet 320d	2007 ->	3 Touring 330d	2009 ->
1 Cabriolet 118d	2008 ->	3 Cabriolet 330d	2009 ->	3 Touring 330xd	2009 ->
1 Cabriolet 120d, Coupe	2007 ->	3 Coupe 320d	2007 ->	5 520d	2005 ->
1 Cabriolet 123d, Coupe	2007 ->	3 Coupe 320xd	2007 ->	5 Touring 520d	2005 ->
3 318d	2005 ->	3 Coupe 330d	2009 ->	7 730d	2008 ->
3 320d	2007 ->	3 Coupe 330xd	2009 ->	X3 2.0 d	2007 ->

**Reemplaza / Suitable:**
BMW 13 627 797 957
 7 797 957


12x1,5



—



SENSORES DE DETONACIÓN

KNOCK SENSORS

CAPTEURS DE CLIQUETIS



INFORMACIÓN TÉCNICA

SENSORES DE DETONACIÓN

Los Sensores de detonación previenen de un encendido espontáneo nocivo cuyo resultado es el efecto del picado.

Las combustiones acíclicas incontroladas dan lugar a una elevada temperatura dentro del cilindro. Este fenómeno provoca que, componentes del motor como los pistones, las válvulas o la culata sean sometidas a un elevado esfuerzo.

El sensor de detonación se encuentra situado en el bloque motor de manera que, registra el golpeteo provocado por el efecto del picado y lo transforma en una señal eléctrica. La unidad de control coteja la señal con los valores de especificación almacenados e interviene para controlar el motor, la inyección del combustible y el encendido en la medida necesaria, antes de que la combustión alcance el límite de picado.

Gracias a la presencia de estos sensores los motores pueden trabajar más próximos a los límites de combustión controlada, consiguiendo un mayor rendimiento de la mezcla.

Dependiendo de la aplicación pueden tener el conector incorporado o bien estar conectados mediante un cable. Los conectores pueden tener 2 ó 3 terminales si tienen cable y, el blindaje antiparasitario se encuentra conectado a masa.

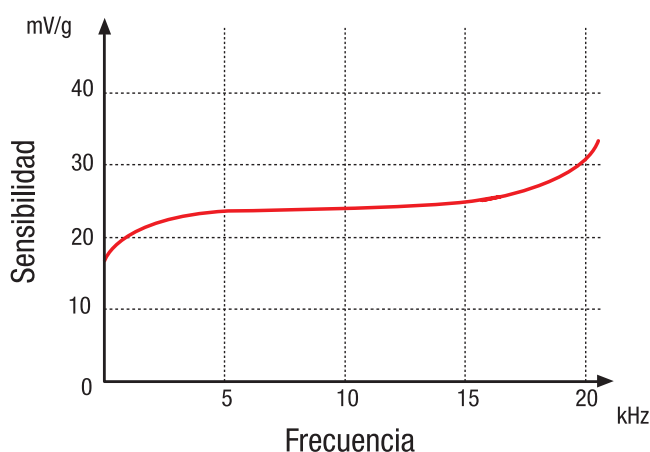
Según el tipo de motor o centralita de control el vehículo tendrá uno o varios sensores midiendo simultáneamente. En el caso particular de llevar varios sensores, podemos encontrarlos con conector individual o bien con conector común.



CARACTERÍSTICAS

Los Sensores de Detonación se diferencian por su Sensibilidad (S). La Sensibilidad es la relación entre la tensión generada entre sus terminales y, la aceleración a la que está siendo sometido. Se expresa en mVolts/g.

Los Sensores de Detonación de tipo no resonantes tienen la característica de mantener su Sensibilidad casi constante a lo largo de todo su rango de lectura.



$$S = \frac{\text{tensión}}{\text{aceleración}} \left(\frac{\text{mVolt}}{g} \right)$$

($1g = 9,81 \text{ m/s}^2$)

· Dentro de la extensa gama disponible podemos encontrarlos con o sin resistencia de descarga.

DATOS TÉCNICOS

Todos los Sensores de Detonación son sometidos a rigurosos ensayos y probados en respuesta al 100%.

- | | |
|--------------------------|-----------------------|
| • Rango de trabajo | 1 ... 20 kHz |
| • Sensibilidad a 5 kHz | Propia de cada sensor |
| • Temperatura de trabajo | -40°C 140°C |
| • Rango de Capacidad | 800 1400 pF |
| • Resonancia Principal | > 25 kHz |

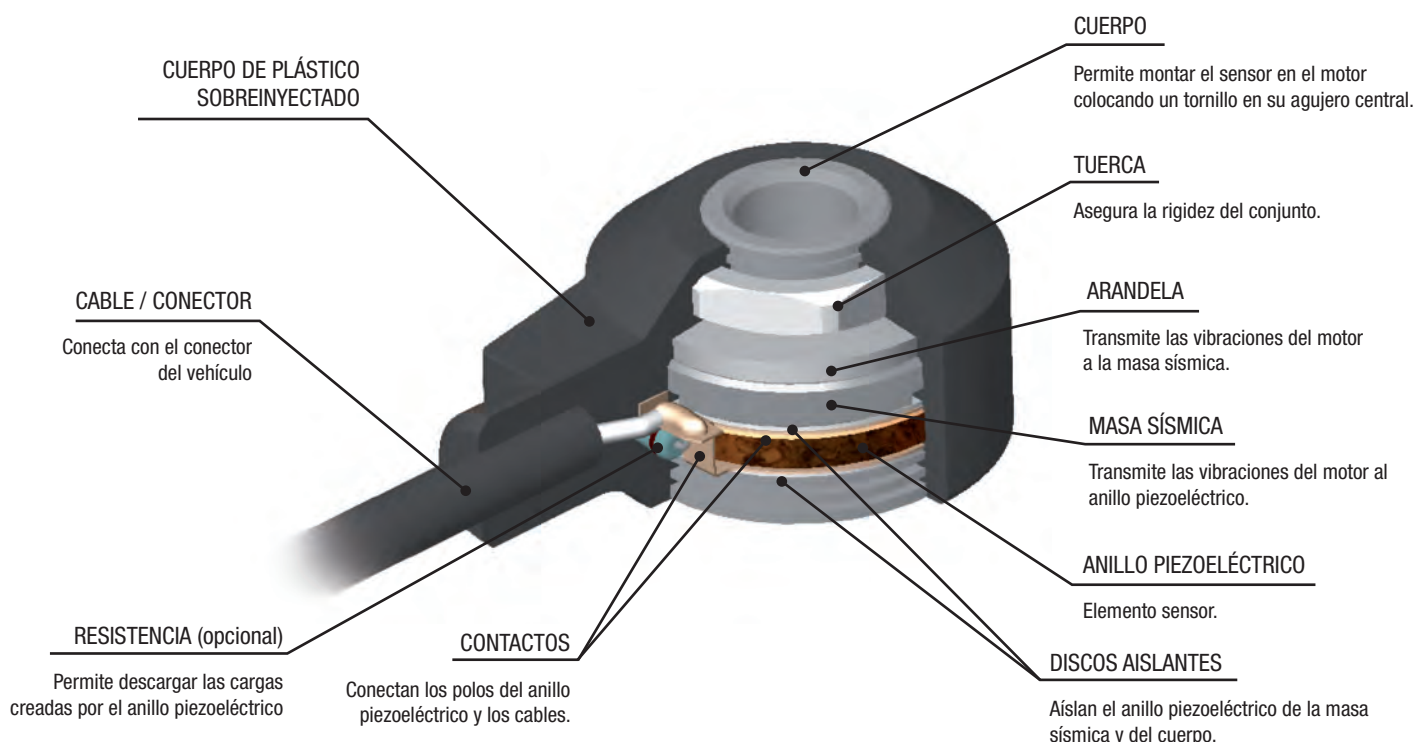


INFORMACIÓN TÉCNICA

FUNCIONAMIENTO

En el interior del sensor de detonación se encuentra un anillo piezoeléctrico con un contacto metálico en cada una de sus caras y perfectamente aislados del cuerpo y la masa sísmica. El sensor piezoeléctrico es un anillo cerámico que se polariza al ser expuesto a un campo eléctrico externo, de forma que, al someterlo a fuerzas de compresión es capaz de generar una diferencia de potencial. La masa sísmica es un anillo metálico perfectamente calibrado con el fin de conseguir las sensibilidades requeridas, de manera que, colocada junto al sensor y comprimida por una arandela elástica y una tuerca transmite (debido a la fuerza de inercia) las vibraciones recibidas al elemento sensor.

La parte metálica del sensor (cuerpo) es la encargada de transmitir las vibraciones desde el bloque motor, de manera que, antes de montarlo tenemos que asegurarnos de que la zona se encuentra limpia y, en buenas condiciones, ya que, en caso contrario no aseguraríamos el buen funcionamiento del sensor.



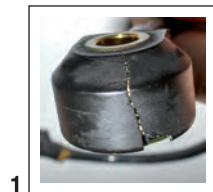
INSTRUCCIONES DE MONTAJE

- Para garantizar una correcta lectura el Par de apriete en el montaje de los sensores debe ser $20 \pm 5\text{Nm}$.
- La parte metálica del sensor debe estar en contacto directo con el bloque motor (sin arandelas).
- Con el fin de mejorar la transmisión de las vibraciones sería recomendable extender una fina capa de grasa de silicona en la base del sensor.

INSPECCIÓN VISUAL / CAUSAS DE FALLOS

Debe verificarse el cuerpo sensor, el conector y el cable asegurándose de su buen estado. Compruebe también si el cuerpo del sensor de detonación muestra alguna grieta, abolladura o golpe que pudieran haberlo deteriorado.

Hay que tener en cuenta que, como norma general, una inspección visual no es suficiente para poder asegurar el buen o mal funcionamiento del sensor, pero ayuda a realizar un primer diagnóstico.



1



2



3



4

- 1.- GRIETAS Y ROTURAS. Tensiones provocadas por estrés mecánico.
- 2.- DEFORMACIONES Y ABOLLADURAS. Sobre calentamiento del sensor.
- 3.- CORROSIÓN DEL CUERPO METÁLICO. Mal anclaje al bloque motor.
- 4.- SIN SEÑAL. Rotura del cable por fricción o exceso de vibración, y rotura interna del sensor por estrés mecánico o térmico.



TECHNICAL INFORMATION

KNOCK SENSORS

Knock sensors prevents from a harmful spontaneous ignition resulting in the knocking effect.

The acyclic uncontrolled combustions results in a high temperature inside the cylinder. This phenomenon causes that, engine parts like pistons, valves or the cylinder head, are subjected to high stress.

The knock sensor is located on the engine block so that records the pinging caused by the knocking effect and transforms it into an electrical signal. The control unit checks the signal with the values stored specification and intervene to control the engine, the fuel injection and the ignition to the extent necessary, before the fuel reaches the knock limit.

Thanks to the presence of these sensors the engines can work closer to the limits of controlled burning, obtaining better performance of the mix.

Depending on the application they may have the built-in connector or be connected by a cable. The connectors may have 2 or 3 terminals, if they have cable and the shielding antiparasite is grounded.

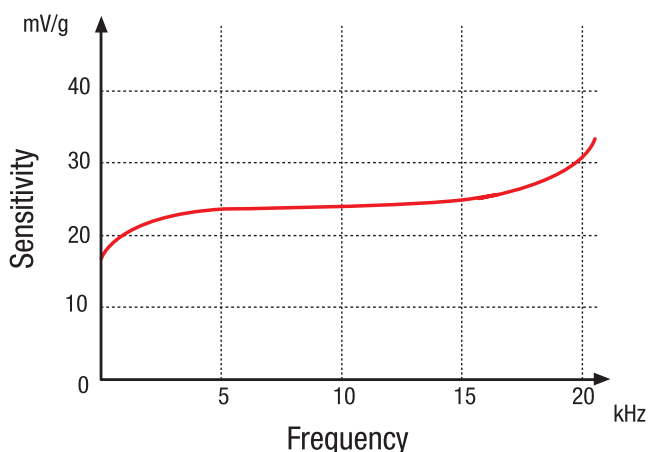
Depending on the engine or the vehicle control unit, it will have one or more sensors measuring simultaneously. In the particular case of carrying multiple sensors, we can find them with an individual connector or with a common connector.



FEATURES

Knock sensors are differentiated by their sensitivity (S). Sensitivity is the ratio between the tension generated on the sensor terminals and the acceleration to which it is subjected. It is expressed in mVolts / g.

Knock sensors of non-resonant type have the property to maintain its sensitivity almost constant throughout its whole range of reading.



$$S = \frac{\text{voltage}}{\text{acceleration}} \left(\frac{\text{mVolt}}{g} \right)$$

($1g = 9,81 \text{ m/s}^2$)

· Within the wide range available can be found with or without discharge resistor.

TECHNICAL DATA

All knock sensors are subjected to rigorous tests and tested in response to 100%.

- Working range
- Sensitivity at 5 kHz
- Working temperature
- Range of Capacity
- Main Resonance

1 ... 20 kHz
 each sensor Own
 -40 ° C 140 ° C
 800 1400 pF
 > 25 kHz

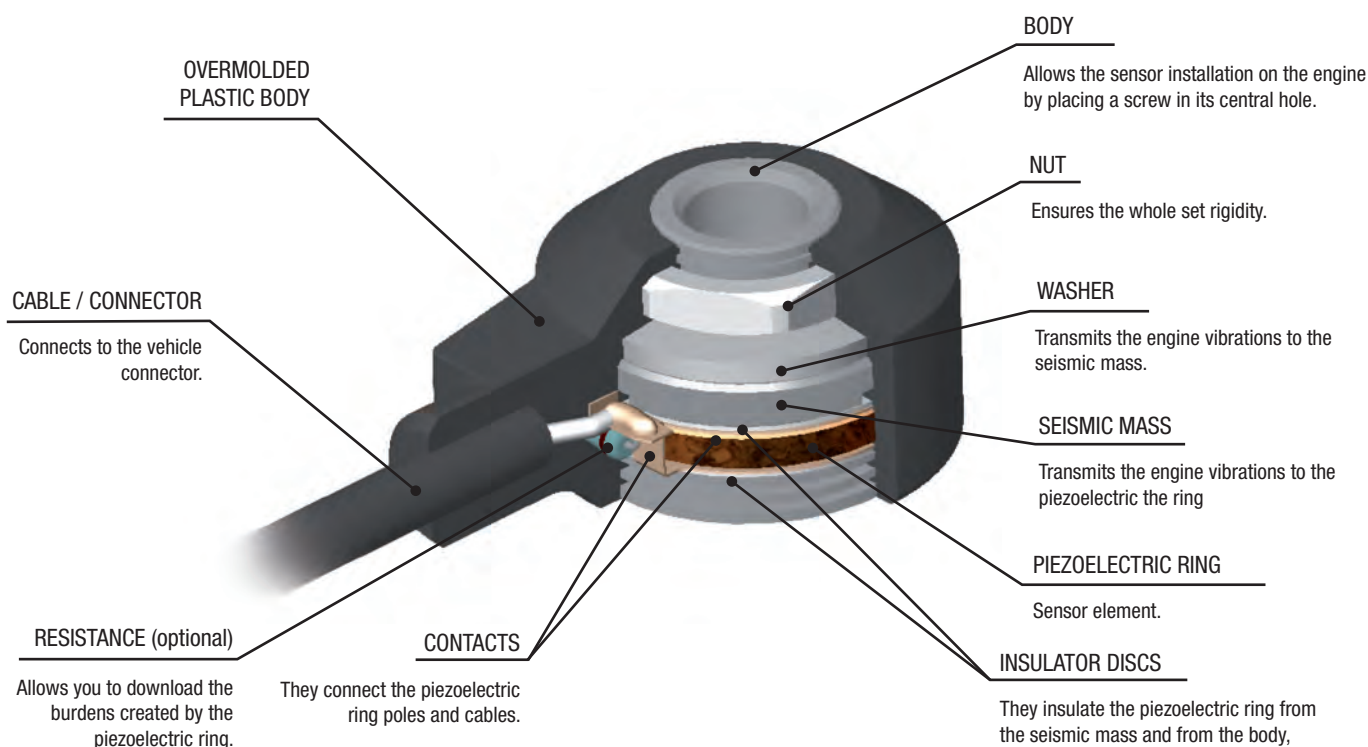


TECHNICAL INFORMATION

OPERATION

Inside the knock sensor there is a piezoelectric ring with a metal contact in each of their faces and perfectly isolated from the body and the seismic mass. The piezoelectric sensor is a ceramic ring which polarizes when exposed to an external electric field, so that, when subjected to compressive forces can generate a potential difference. The seismic mass is a metal ring perfectly calibrated to achieve the required sensitivity, so that when placed next to the sensor and compressed by a spring washer and a threaded nut (due to the inertial force) transmits the vibrations to the sensor element.

The sensor metal part (body) is responsible for transmitting the vibrations from the engine block, so that, before fitting it we need to ensure that the area is clean and in a good condition, otherwise it would not be possible to guarantee the proper functioning of the sensor.



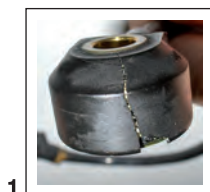
INSTALLATION INSTRUCTIONS

- To ensure a proper torque reading the tightening torque should be 20 ± 5 Nm.
- The sensor metal part must be in direct contact with the motor unit (without washers).
- In order to improve the vibrations transmission it is recommended to apply a thin silicone layer in the sensor base.

VISUAL INSPECTION / CAUSES OF FAILURE

The body Sensor, the connector and the cable should be checked, ensuring their good condition. Also check if the knock sensor body shows any crack, dents or impact that may have deteriorated it.

Take into account that, as a general rule, visual inspection is not sufficient to ensure the sensor smooth or malfunction, but it helps to make an initial diagnosis.



1



2



3



4

1. - CRACKING AND BREAKING. Tensions caused by mechanical stress.
2. - DEFORMATIONS AND DENTS. Sensor overheat.
3. - METAL BODY CORROSION. Wrong anchor to the block engine.
4. - NO SIGNAL. Cable breakage due to friction or excessive vibration; and internal sensor breakage due to mechanical or thermal stress.

INFORMATION TECHNIQUE

CAPTEURS DE CLIQUETIS

Les capteurs de cliquetis évitent l'allumage spontané nocif qui résultant de l'effet de cliquetis.

Les combustions incontrôlées acycliques donnent comme résultat une température élevée à l'intérieur du cylindre. Ce phénomène provoque que pièces de moteur comme des pistons, les vannes ou la culasse se soumettent à un effort sévère.

Le capteur de cliquetis est situé sur le bloc moteur afin d'enregistrer les battements causés par l'effet de cliquetis et les transformer en signal électrique. L'unité de contrôle vérifie le signal avec de valeurs stockées de spécification et intervient pour contrôler le moteur, l'injection de carburant et l'allumage dans la mesure nécessaire, avant que la combustion atteigne la limite de cliquetis.

Grace à la présence de ces capteurs les moteurs peuvent travailler plus proche de la limite d'une combustion contrôlée, obtenant la meilleure performance de la combinaison.

Selon l'application ils peuvent avoir le connecteur intégré ou être reliés par un câble. Les connecteurs peuvent avoir 2 ou 3 bornes s'ils ont le câble et le blindage antiparasitaire branche à la masse.

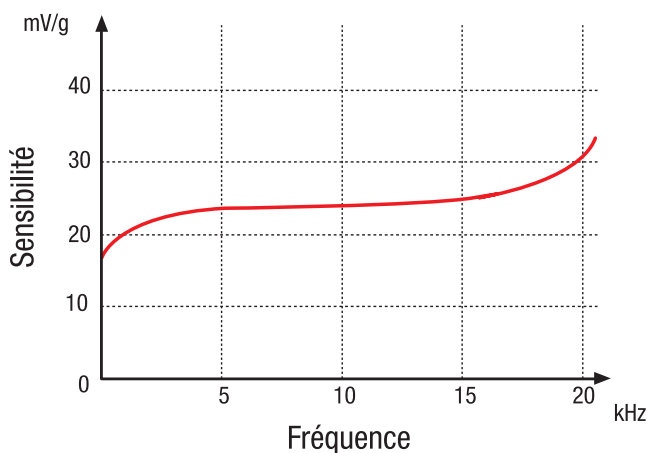
Selon le type de moteur ou l'unité de commande du véhicule il aura un ou plusieurs senseurs mesurant simultanément. Dans le cas particulier de porter différents senseurs, nous pouvons les trouver avec un connecteur individuel ou bien avec un connecteur commun.



CARACTERISTIQUES

Les capteurs de cliquetis sont différenciés par leur sensibilité (S). La sensibilité est le rapport entre la tension qui est générée sur les bornes et l'accélération à laquelle il est soumis. Elle est exprimée en mVolts / g.

Les capteurs de cliquetis de type non-résonant ont la caractéristique de conserver leur sensibilité quasiment constante dans toute son gamme de lecture.



$$S = \frac{\text{tension}}{\text{accélération}} \left(\frac{\text{mVolt}}{g} \right)$$

($1g = 9,81 \text{ m/s}^2$)

Parmi le grand choix disponible nous pouvons trouver avec ou sans résistance de décharge.

FICHE TECHNIQUE

Tous les capteurs de cliquetis sont soumis à tests rigoureux et testés en réponse au 100%.

- | | |
|-----------------------------|--------------------------|
| • Gamme de travail: | 1 ... 20 kHz |
| • Sensibilité à 5 kHz | propre de chaque capteur |
| • La température de travail | -40 ° C 140 ° C |
| • Gamme de capacité | 800 1400 pF |
| • Résonance principale | > 25 kHz |

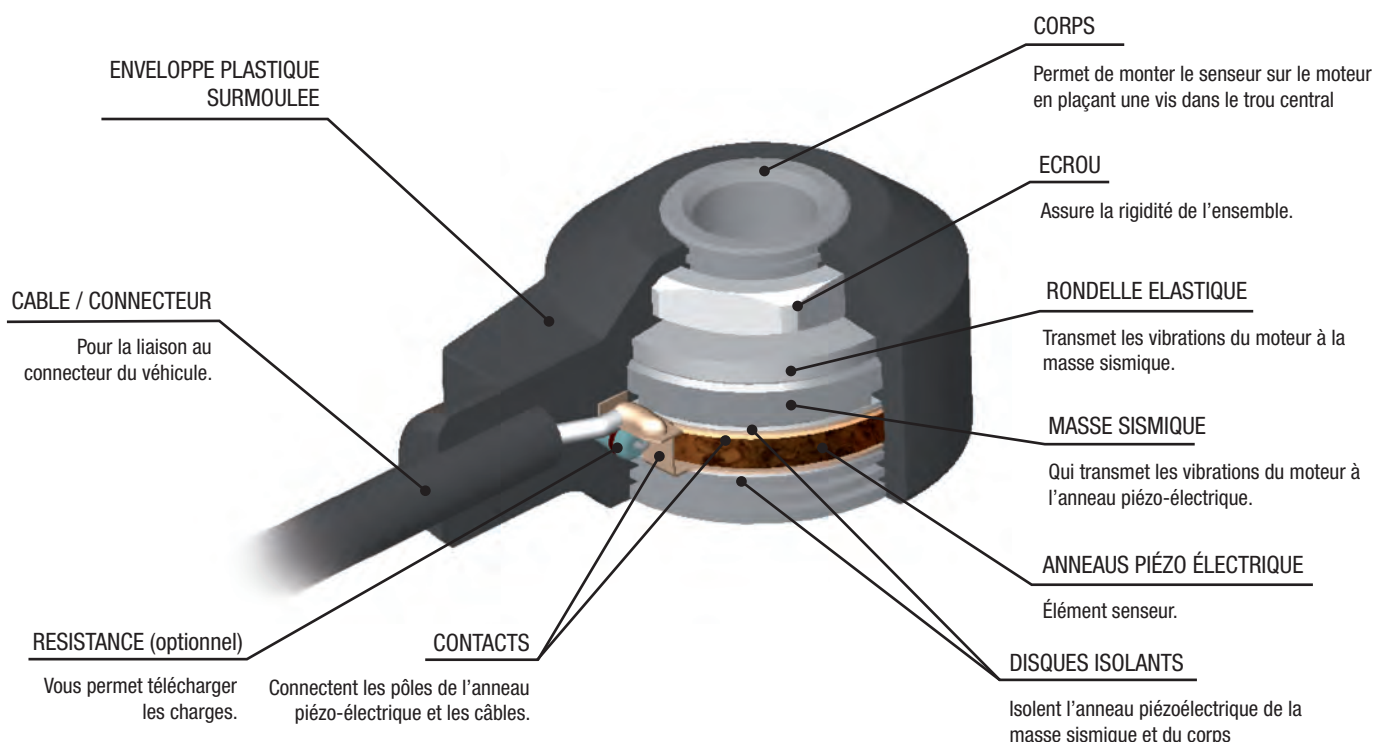


INFORMATION TECHNIQUE

FONCTIONNEMENT

A l'intérieur du capteur de cliquetis se trouve un anneau piézo-électrique avec un contact métallique dans chacune de leurs faces et parfaitement isolé du corps et de la masse sismique. Le capteur piézoélectrique est un anneau qui se polarise lorsqu'il est exposé à un champ électrique externe, de sorte que, lorsqu'il est soumis à des forces de compression il est capable de générer une différence de potentiel. La masse sismique est un anneau de métal parfaitement calibré pour atteindre les sensibilités requises, de sorte que lorsqu'elle est placée à côté du capteur et comprimée par une rondelle élastique et l'écrou transmet (à cause de la force d'inertie) les vibrations reçues à l'élément capteur.

La partie métallique du capteur (corps) est chargée de transmettre les vibrations du bloc moteur, de sorte que, avant son montage, nous devons veiller à ce que la zone est propre et en bon état, parce que dans le cas contraire il n'est pas possible d'assurer le bon fonctionnement du capteur.



INSTRUCTION DE MONTAGE

- Pour assurer la correcte lecture de la couple dans le montage de capteurs doit être de 20 ± 5 Nm.
- La partie métallique du capteur doit être en contact direct avec le bloc moteur (sans rondelles).
- Afin d'améliorer la transmission des vibrations il est conseillé d'appliquer une légère couche de graisse de silicone à la base du capteur.

INSPECTION VISUELLE / CAUSES DE L'ÉCHEC

Se doivent vérifier le corps du capteur, le connecteur et le câble s'assurant de leur bon état. Vérifiez également si le corps de détonation montre des fissures, des bosses ou des impacts qui peuvent l'avoir détérioré.

Veillez envisager que, habituellement, l'inspection visuelle ne suffit pas pour assurer le bon ou le mauvais fonctionnement du capteur, mais ça peut aider pour établir un premier diagnostic.



1 .- FISSURATIONS ET RUPTURES. Les tensions causées par le stress mécanique.

2 .- LES DÉFORMATIONS ET LES BOSSSES. Surchauffe du capteur.

3 .- LA CORROSION DU CORPS MÉTALLIQUE. Mauvais ancrage sur le bloc moteur.

4 .- NO SIGNAL. Rupture de câble à cause de la friction ou des vibrations excessives, et la rupture de interne du capteur par stress mécaniques ou thermiques.



REF. FAE

COLOR / COLOUR / COULEUR

FABRICANTE

Años

MAKER

Model

Year

CONSTRUCTEUR

Modèle

Année



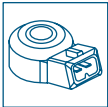
Reemplaza/Suitable/Remplace:
Cruce de Referencias.
Cross References
Tableau des equivalences

LONGITUD
LENGHT
LONGEUR

CIRCUITO
CIRCUIT
CIRCUITO

CONEXIÓN
CONNECTION
CONNEXION

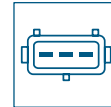
SIMBOLOS - SYMBOLS - SYMBOLES



Sensores de detonación
Knock Sensors
Capteurs de Cliquetis

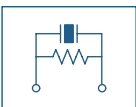


Longitud del cable en mm.
Lenght of cable in mm.
Longeur du cable en mm.

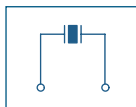


Tipo de conexión
Type of connection
Type de connexion

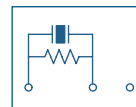
ESQUEMA ELÉCTRICO / ELECTRICAL SCHEME / SCHEMA ELECTRIQUE



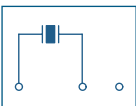
Sensor con resistencia
Sensor with resistor
Capteur avec resistance



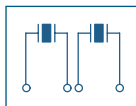
Sensor simple
Simple Sensor
Capteur simple



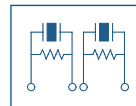
Sensor con resistencia y cable apantallado
Sensor with resistor and shielded cable
Capteur avec resistance et cable blindé



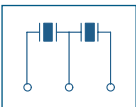
Sensor con cable apantallado
Sensor with shielded cable
Capteur avec cable blindé



Sensor doble
Double sensor
Capteur double



Sensor doble con resistencia
Double sensor with resistor
Double capteur avec resistance



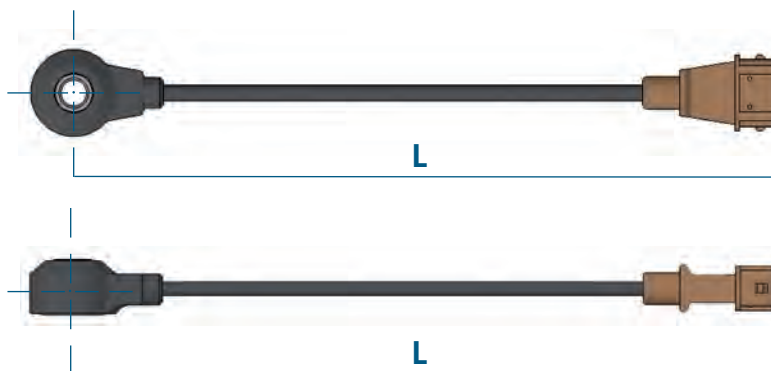
Sensor doble con tres terminales
Double sensor three pins
Capteur double avec trois terminales

LONGITUDES / LENGHT / LONGUEURS

Longitud en mm. del cable y del sensor medido de la forma ilustrada:

Length in mm. of cable & of sensor measured as shown:

Longeur en mm. du cable et du capteur mesuré comme suit:



Los modelos de vehículos se dan como información general. No se deben utilizar como guía detallada de aplicaciones.

Vehicles models for general information only. Not to be used as a detailed applications guide.

Les modèles de véhicules sont présentés à titre d'information générale uniquement. Le document ne constitue pas un guide pratique et ne doit pas être utilisé comme tel.

Para identificar un Sensor de Presión Absoluta de un modelo específico, consultar Aplicaciones por Vehículos. Las piezas contenidas en este Catálogo, pueden estar sujetas a modificaciones dimensionales o de material, sin previo aviso.

Refer to Vehicle Applications to trace the Map Sensor of a specific model. The parts shown in this Catalogue, are subject to modification in design or material without notice.

Pour trouver un modèle spécifique d'un Capteur de Pression consulter les Applications par Véhicules. Les pièces contenues dans ce Catalogue, peuvent être modifiées en matériel ou exécution sans préavis.

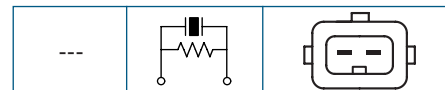


60100

CITROËN		RENAULT Cont.		SKODA	
XANTIA 2.0 i 16V, Break	1995-03	MEGANE 1.2 0 16V, Cabrio	1996 ->	OCTAVIA 1.6, 2.0	1996 ->
XSARA PICASSO 1.6	2002 ->	SAFRANE II 2.0 16V, 2.5 20V	1996-00	TOYOTA	
MERCEDES		SAAB		VOLKSWAGEN	
C-CLASS, CLK, CLS	2004 ->	900 II 2.0, 2.3	1993-98	AVENSIS 1.6	1997-00
E-CLASS, GL-CLASS	2005 ->	9-3 2.0 i, 2.3 i, Cabrio	1998-02	YARIS 1.0	2003 ->
M-CLASS, R-CLASS	2005 ->	SEAT			
S-CLASS, SL, SLK	2004 ->	AROSA 1.0, 1.4	1997-04	BORA 1.4, 1.6, 2.0	1998-05
SPRINTER 3.5-t 324, 3-t 224	2006 ->	CORDOBA 1.0, 1.4, 1.6	1993-02	CADDY II 1.4, 1.6	1995-04
PEUGEOT		IBIZA II, III	1993-02	GOLF III, IV	1991-06
106 I 1.3, 1.6	1993-96	INCA 1.4 i, 1.4 16V, 1.6 i	1995-03	LUPO 1.0, 1.4, 1.6	1998-05
RENAULT		LEON 1.6 16 V	2000-06	NEW BEETLE 1.8, 2.0, 3.2	1998 ->
LAGUNA 2.0, 16V, Grandtour	1995-01	TOLEDO II 1.6 16V	2000-06	POLO 1.0, 1.3, 1.4, 1.6	1994-01
				SHARAN 1.8 T 20V	1997 ->



Reemplaza / Suitable:
Citroën 96.168.084
Mercedes 004 153 90 28
Peugeot 5946.21
Renault 74 31 367 644
77 00 871 678
Saab 91 42 415
VW 030 905 377 A

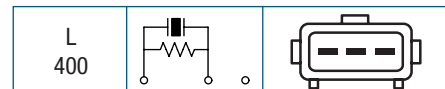


60101

ALFA ROMEO		FIAT Cont.		OPEL	
156, 166, GTV	1996 ->	ULYSSE 2.0, 3.0	1994 ->	FRONTERA A 2.0, 2.2	1992-98
SPIDER 2.0, 3.0	1995-05	HYUNDAI		PEUGEOT	
CITROËN		ACCENT 1.5 i 12V, 16V	1994-00	306, 406, 407	1993 ->
C5, C6, C8 .3.0 V6, Break	2001 ->	LANTRA II 1.5 12V, Wagon	1996 ->	605, 607, 806, 807	1989 ->
EVASION 2.0, Turbo C.T.	1994-02	S COUPE 1.5 i, Turbo	1991-96	RENAULT	
XANTIA, XM, ZX	1989-03	LANCIA		ESPACE III 3.0	1996-98
FIAT		KAPPA 2.0 20V, SW	1998-01	LAGUNA 3.0	1993-01
BRAVA 1.2, 1.4	1995-01	PHEDRA 3.0 V6	2002 ->	SAFRANE I, II	1992-00
BRAVO 1.2, 1.4	1995-01	THEMA 2850, 3000	1988-94	VOLVO	
COUPE 2.0 20V Turbo	1996-00	Y 1.4 12V	1996-03	760 2.8, Kombi	1981-91
MAREA 1.2, 1.4	1996 ->	ZETA 2.0 Turbo	1995-02		
PUNTO 1.4 GT Turbo	1994-99				



Reemplaza / Suitable:
Alfa Romeo 7669123
Fiat 60808063
7401367643
Hyundai 39250-22010
39250-22003
Opel 6238353
Peugeot 5946.15
5946.16
Renault 96 12 765 880
96 12 765 780

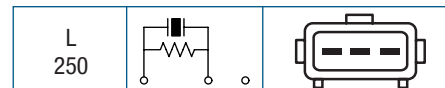


60102

CITROËN		LANCIA		RENAULT	
C5 3.0 V6, Break	2001 ->	PHEDRA 3.0 V6	2002 ->	AVANTIME 3.0 V6	2001-03
C6 3.0 V6	2005 ->	ZETA 2.0 16V	1998-00	CLIO II 3.0 V6 Sport	2000 ->
C8 3.0 V6	2002 ->	PEUGEOT		LAGUNA II 3.0 V6 24V	2001 ->
EVASION 2.0	1994-02	306 2.0, Break	1997-02		
XANTIA 1.8, 2.0	1995-03	406 1.8 16V, 2.0, Break	1995-04		
XM 2.0	1992-00	407 3.0	2004 ->		
XSARA 2.0 16V, Break	1998-00	607 3.0 V6 24V	2000 ->		
ZX 1.8 i 16V, Break	1996-98	806 2.0, 16V, Turbo	1994-02		
FIAT		807 3.0 V6	2002 ->		
ULYSSE 2.0, 16V, Turbo	1994-02				
ULYSSE 3.0 V6	2002 ->				



Reemplaza / Suitable:
Citroën 96.231.343
96.213.344
Fiat 9621334480
9628648280
Peugeot 5946.30
5946.22
Renault 96 28 648 280

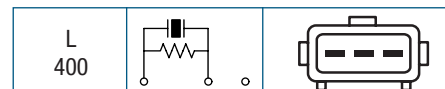


60103

CITROËN		PEUGEOT		RENAULT	
XANTIA 3.0 i 24V	1997-98	406 3.0 24V, Break	1996-04	ESPACE III 3.0 V6 24V	1998-02
XANTIA 3.0 V6, Break		406 COUPE 3.0 V6 24V	1997-04	LAGUNA 3.0 24V, Grandtour	1997-01
XM 3.0 V6, Break	1997-00				



Reemplaza / Suitable:
Citroën 96.286.484
Peugeot 5946.25
Renault 96 28 648 480

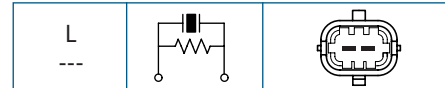


60104

ALFA ROMEO		FIAT Cont.		OPEL	
156 2.0 JTS, Sportwagon	2002-06	PUNTO 1.2, 1.4	1999 ->	AGILA 1.0, 1.2	2000 ->
GT, GTV. 2.0 JTS	2003 ->	STILO 1.2, 1.4	2002 ->	ASTRA G, H	1998 ->
MITO 1.4 TB	2008 ->	HONDA		Combo, Corsa, Meriva, Tigra	1996 ->
SPIDER 2.0 JTS	2003-05	JAZZ II, III	2002 ->	PORSCHE	
FIAT		LANCIA		911 3.4, 3.6, 3.8	1997 ->
500 1.4, Abarth	2007 ->	DELTA III 1.4	2008 ->	Boxster 2.5, 2.7, 3.2, 3.4	1996 ->
BRAVA 1.2 16V 80	2000-01	MUSA 1.4	2004 ->	Carrera, Cayenne, Cayman	2002 ->
BRAVO 1.2, 1.4	2000 ->	THESIS 2.0 Turbo	2002 ->	SMART	
GRANDE PUNTO 1.4	2005 ->	Y 1.2 16V	2000-03	FOUR FOUR 1.1	2004 ->
IDEA 1.2 16V, 1.4	2004 ->	YPSILON 1.2, 1.4	2003 ->	FOUR FOUR 1.3	2004 ->
LINEA 1.4 T-Jet	2007 ->	MITSUBISHI		FOUR FOUR 1.5	2004 ->
PANDA 1.4	2006 ->	COLT VI 1.1, 1.3, 1.5	2004 ->		



Reemplaza / Suitable:
Alfa Romeo 46552951
Fiat 55186669
55187820
Honda 30530-PWE-G01
Mitsubishi MN-163706
Opel 6235619
6238102
Porsche 996 606 121 00
Saab 17 89 360
Smart 005 153 60 28

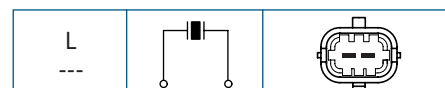


60105

CITROËN		PEUGEOT		LEXUS	
C1 1.0	2005 ->	107 1.0	2005 ->	GS	2005 ->
DAIHATSU		TOYOTA		IS	2005 ->
COPEN 1.3	2006 ->	AYGO 1.0	2005 ->	LS	2000 ->
CUORE VIII 1.0	2007 ->	YARIS 1.0 VWT-i	2006 ->	RX	2006 ->
MATERIA 1.3	2006 ->			SC	2001 ->
MATERIA 1.5	2006 ->				
SIRION 1.3	2005 ->				
SIRION 1.5	2008 ->				
TERIOS 1.3	2005 ->				
TERIOS 1.5	2005 ->				



Reemplaza / Suitable:
Peugeot 5946.35
Toyota 89615-0H010
Daihatsu 89615-20090



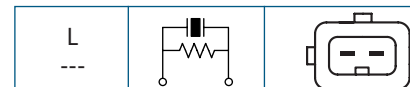


60106

ALFA ROMEO	OPEL	SAAB
75 1.8 Turbo 1986-92	ASTRA F 1991-98	900 I 2.0 1984-94
BMW 1990-97	CALIBRA A 1990-97	9000 2.0, 2.3 1984-98
7 745 i 1980-86	KADETTE CC 1988-91	VOLVO
CITROËN	OMEGA A, B 1989-99	240 2.3 1986-93
BX 19 GTi 16V 1987-93	VECTRA A 1989-95	440 K 1.6, 1.7, 1.8, 2.0 1988-96
FORD	PEUGEOT	460 L 1.6, 1.7, 1.8, 2.0 1988-96
ESCORT 1980-90	309, 405, 505 1984-93	480 E 1.7, 2.0 1986-96
FIESTA 1983-84	PORSCHE	740, 760 1984-92
ORION 1986-90	968 444 1985-95	940, 960 1990-98
SCORPIO 1985-92	RENAULT	S90, V90 1997-98
SIERRA 1985-86	19 I Chamade 1.7 1988-92	
	19 II 1.7 1992-95	



Reemplaza / Suitable:	
Alfa Romeo	60512698
BMW	12 14 1 279 734
GM	90 510 281
Opel	1238345
	6238341
Peugeot	5946.03
Renault	77 00 271 090
Volvo	1326658

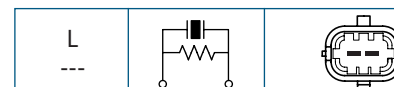


60107

ALFA ROMEO	CHEVROLET	SAAB
159 1.9 JTS 2005 ->	CAPTIVA 2006 ->	9-3 2.8 Turbo V6 2005 ->
159 2.2 JTS 2005 ->	OPEL	9-3 CABRIOLET 2.8 Turbo V6 2006 ->
159 3.2 JTS Q4 2005 ->	ANTARA 3.2 V6 2007 ->	9-3 Kombi 2.8 Turbo V6 2005 ->
159 Sportwagon 1.9 JTS 2006 ->	SIGNUM 2.8 V6 Turbo 2005 ->	
159 Sportwagon 2.2 JTS 2006 ->	VECTRA C 2.8 V6 Turbo 2005 ->	
159 Sportwagon 3.2 JTS Q4 2006 ->	VECTRA C Caravan 2.8 V6 2005 ->	
BRERA 2.2 JTS 2006 ->	VECTRA C GTS 2.8 V6 Turbo 2005 ->	
BRERA 3.2 JTS, Q4 2006 ->		
SPIDER 2.2 JTS 2006 ->		
SPIDER 3.2 JTS, Q4 2006 ->		



Reemplaza / Suitable:	
Alfa Romeo	71739674
Fiat	71739674
Opel	6235712
	6235746
Saab	93 189 202

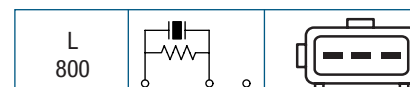


60108

AUDI	VOLKSWAGEN	VOLKSWAGEN Cont.
100 2.0, 2.3 1986-94	CORRADO 1.8, 2.0 1988-95	PASSAT Variant 1.6 1997-00
80 1.8, 2.0, 2.3, 2.6, 2.8 1985-96	GOLF I CABRIOLET 1.8 1989-93	PASSAT Variant 1.8 1988-00
90 2.0, 2.3 1986-91	GOLF II 1.8 Syncro 1988-91	PASSAT Variant 2.0 16V 1988-93
A4 1.6, 1.8 1995-01	GOLF II 1.8 GTI 1983-91	SCIROCCO 1.8 16V 1986-92
A6 1.8, 2.0, 2.3, 4.2, S6 1994-05	JETTA II 1.8 1984-91	TOUAREG 4.2 V8 2002-06
A8 3.7, 4.2, S8 1994-02	JETTA II 1.8 16V 1986-91	
COUPE 2.0, 2.3, 2.6, 2.8, S2 1988-96	JETTA II 1.8 KAT 1987-91	
	PASSAT 1.6 1996-00	
	PASSAT 1.8 1988-00	
	PASSAT 1.8 Syncro/4motion 1996-00	
	PASSAT 1.8 T 1996-00	
	PASSAT 2.0 16V 1988-93	



Reemplaza / Suitable:	
VW	053 905 377 2
	054 905 377 A
	034 905 377 A
	054 905 377 H

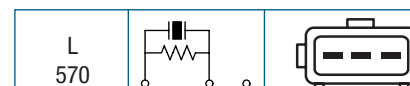


60109

FORD	VOLKSWAGEN
GALAXY 2.8 i V6 1995-00	CORRADO 2.9 VR6 1991-95
GALAXY 2.8 i V6 4x4 1996-00	GOLF III 2.8 VR6 1992-97
	GOLF III 2.9 VR6 1994-99
	PASSAT 2.8 VR6 1991-96
	PASSAT Variant 2.8 VR6 1991-97
	SHARAN 2.8 VR6 1995-00
	SHARAN 2.8 VR6 Syncro 1996-00
	VENTO 1992-98



Reemplaza / Suitable:	
Ford	1029801
VW	021 905 377

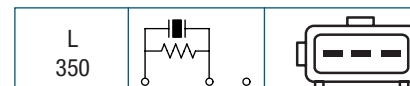


60110

BMW	VOLKSWAGEN
3 CABRIOLET M3 3.0 1994-95	POLO COUPE 1.3 G40 1990-94
3 CABRIOLET M3 3.2 1995-99	TRANSPORTER IV 2.5 1990-03
3 COUPE M3 3.0 1992-95	
3 COUPE M3 3.0 1995-95	
3 COUPE M3 3.2 1995-99	
3 M3 3.0 1994-95	
3 M3 3.2 1995-98	
Z3 Coupe M 3.2 1998-01	
Z3 M 3.2 1997-01	



Reemplaza / Suitable:	
BMW	1 401 238
	12 14 1 401 238
VW	030 905 377

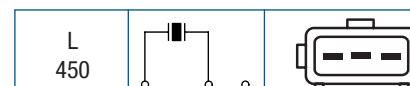


60111

ALFA ROMEO	ALFA ROMEO Cont.	LANCIA
145 1.4, 1.6, 1.8, 2.0 1995-01	SPIDER 2.0 V6 Turbo 1998-05	DELTA I 2.0 16V HF 1993-94
146 1.4, 1.6, 1.8, 2.0 1995-01	SPIDER 3.0 V6 1995-05	DELTA II 2.0 16V Turbo 1993-99
155 1.6, 1.7, 2.0 1995-97	DAEWOO	DELTA II 2.0 16V Turbo 1996-99
156 1.6 16V T.S. 1997-06	LANOS 1.4, 1.6 1997 ->	KAPPA 2.0, 2.4 1994-01
164 2.0 V6 Turbo 1991-98	NUBIRA 1.6 16V 1997 ->	KAPPA COUPE 2.4 20V 1996-01
166 2.0 V6 1998 ->	FIAT	KAPPA SW 2.0, 2.4 1996-01
166 2.5 V6 24V 1998-00	BRAVO 2.0 HGT 20V 1995-98	THEMA 2000, 3000 1992-94
166 3.0 V6 24V 1998-00	COUPE 2.0 16V Turbo 1993-96	THEMA SW 2000, 3000 1992-94
GTV 2.0 T.S. 16V 1995 ->	COUPE 2.0 20V 1996-96	
GTV 2.0 V6 Turbo 1995 ->	CROMA 2000 16V 1992-96	
GTV 3.0 V6 24V 1996-00	MAREA 2.0 150 20V 1996-99	
SPIDER 2.0 T.S. 16V 1995-05		



Reemplaza / Suitable:	
Alfa Romeo	60592752
Daewoo	96253615
Fiat	60810791



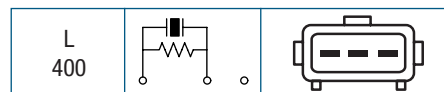


60112

RENAULT	
AVANTIME 3.0 V6	2001-03
CLIO II 3.0 V6 Sport	2000 ->
LAGUNA II 3.0 V6 24V	2001 ->



Reemplaza / Suitable:
Bosch 0261 231 127
Renault 96 28 648 380

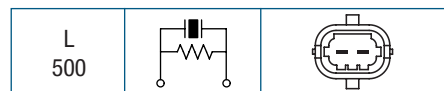


60113

ALFA ROMEO		ALFA ROMEO Cont.	
145 1.4 i.e. 16V T.S.	1996-01	156 Sportwagon 1.8 16V T.S.	2000-06
145 1.8 i.e. 16V	1998-01	156 Sportwagon 2.0 16V T.S.	2000-02
145 2.0 16V Quadrifoglio	1998-01	166 2.0 T.S.	1998 ->
146 1.4 i.e. 16V T.S.	1996-01	GT 1.8 TS	2003 ->
146 1.8 i.e. 16V T.S.	1998-01	GTV 1.8 16V	1998 ->
146 2.0 16V Quadrifoglio	1998-01	GTV 2.0 T.S. 16V	1995 ->
147 1.6 16V T.S.	2001 ->	SPIDER 1.8 16V	1998-05
147 2.0 16V T.S.	2001 ->	SPIDER 2.0 T.S. 16V	1995-05
156 1.6 16V T.S.	1997-05		
156 1.8 16V T.S.	1997-05		
156 2.0 16V T.S.	1997-02		
156 Sportwagon 1.6 16V T.S.	2000-06		



Reemplaza / Suitable:
Alfa Romeo 46469867
Bosch 0261 231 131

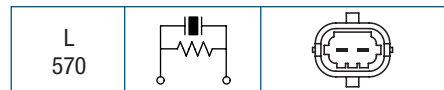


60114

FIAT		LANCIA	
BRAVO 2.0 HGT 20V	1998-01	KAPPA 2.0 20V	1996-01
COUPE 2.0 20V	1998-00	KAPPA SW 2.0 20V	1996-01
MAREA 2.0 150 20V	2001 ->	LYBRA 2.0 20V	1999 ->
MAREA 2.0 155 20V	1999-01	LYBRA SW 2.0 20V	1999 ->
MAREA Weekend 2.0 150	2001 ->	THESIS 2.4	2002 ->
MAREA Weekend 2.0 155	1999-01		
STILO 2.4 20V	2001 ->		



Reemplaza / Suitable:
Bosch 0261 231 144
Fiat 46525288

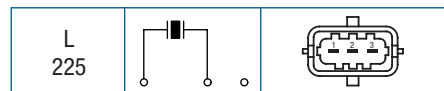


60115

TOYOTA		TOYOTA Cont.	
AURIS 1.4 VVTi	2007 ->	COROLLA Wagon 1.4 16V	2000-02
COROLLA 1.4 16V	2000-02		
COROLLA 1.4 VVT-i	2002 ->		
COROLLA 1.6 VVT-i	2002 ->		
COROLLA Compact 1.4	2000-02		
COROLLA Kombi 1.4 VVT-i	2002 ->		
COROLLA Kombi 1.6 VVT-i	2002 ->		
COROLLA Liftback 1.4	2000-02		
COROLLA Sedan 1.4 VVT-i	2002 ->		
COROLLA Sedan 1.6 VVT-i	2002 ->		
COROLLA Verso 1.4 VVT-i	2002-04		
COROLLA Verso 1.6 VVT-i	2002-04		



Reemplaza / Suitable:
Bosch 0261 231 149
Toyota 89615-02010

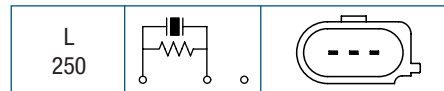


60116

AUDI		SEAT		VOLKSWAGEN	
A3 1.8	1996 ->	CORDOBA 1.8 T 20V Cupra	2000-02	BORA 1.8 T	2000-05
A3 1.8 Quattro	1998 ->	IBIZA III 1.8 T 20V Cupra	2000-02	BORA Kombi 1.8 T	2000-05
A3 1.8 T	1996 ->	LEON 1.8 20V	1999-06	GOLF IV 1.8 T	1997-05
		TOLEDO II 1.8 20V	1999-06	GOLF IV Variant 1.8 T	2000-06



Reemplaza / Suitable:
VW 06A 905 377 F

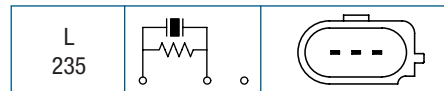


60117

AUDI		SEAT Cont.		VOLKSWAGEN Cont.	
A3 1.6, 1.8	1996 ->	TOLEDO II 1.8 20V T	2001-06	GOLF IV 1.8	1997-05
A3 S3 Quattro	1999 ->	SKODA		GOLF IV 1.8 4motion	1998-05
TT 1.8 T	1998-06	FABIA 1.0, 1.4	1999-08	GOLF IV 1.8 T	1997-05
TT 1.8 T Quattro	1998-06	FABIA Combi 1.4	2000-07	GOLF IV Variant 1.6	1999-06
TT 1.8 T Quattro	1998-06	FABIA Praktik 1.4	2001-07	GOLF IV Variant 1.8 4motion	1999-06
TT Roadster 1.8 T	1999-06	FABIA Sedan 1.4	2000-07	GOLF IV Variant 1.8 T	2000-06
TT Roadster 1.8 T Quattro	1999-06	OCTAVIA 1.4, 1.6, 1.8	1997 ->	MULTIVAN V 2.0	2003 ->
		VOLKSWAGEN		NEW BEETLE 1.6	1999-00
CORDOBA Schrägheck 1.8 T	2000-02	BORA 1.6, 1.8	1998-05	TRANSPORTER V 2.0	2003 ->
IBIZA III 1.8 T 20V Cupra	2000-02	BORA Kombi 1.6	1999-05		
LEON 1.8 20V	1999-06	BORA Kombi 1.8 4motion	1999-05		
TOLEDO II 1.8 20V	1999-06	GOLF IV 1.6	1997-05		



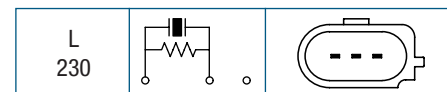
Reemplaza / Suitable:
Volkswagen 06A 905 377 C





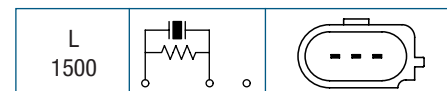
60118

AUDI		SKODA		VOLKSWAGEN	
A3 2.0 FSI	2003 ->	OCTAVIA 2.0 FSI	2004 ->	EOS 2.0 FSI	2006 ->
A3 Sportback 2.0 FSI	2004 ->	OCTAVIA Combi 2.0 FSI	2004 ->	GOLF PLUS 2.0 FSI	2005 ->
SEAT		OCTAVIA Combi 2.0 FSI 4x4	2004 ->	GOLF V 2.0 FSI	2004 ->
ALTEA 2.0 FSI	2004 ->			GOLF V 2.0 FSI 4motion	2004 ->
ALTEA XL 2.0 FSI	2006 ->			JETTA III 2.0 FSI	2005 ->
LEON 2.0 FSI	2005 ->			PASSAT 2.0 FSI	2005 ->
TOLEDO III 2.0 FSI	2004 ->			PASSAT 2.0 FSI 4motion	2005 ->
				PASSAT Variant 2.0 FSI	2005 ->
				TOURAN 2.0 FSI	2003 ->

Reemplaza / Suitable:
VW 021 905 377 E


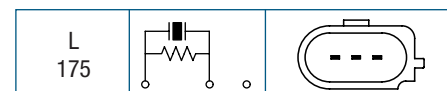
60119

VOLKSWAGEN	
PASSAT 2.3 V5	2000-05
PASSAT 2.3 V5 4motion	2000-05
PASSAT Variant 2.3 VR5	2000-05

Reemplaza / Suitable:
VW 066 905 377 A


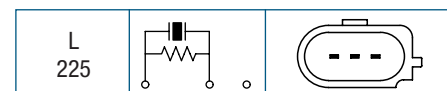
60125

AUDI		SEAT		SKODA Cont.	
A3 1.6	1996-00	CORDOBA Fastback 1.6, 1.8	1999-02	OCTAVIA 1.8 T 4x4	2001 ->
A3 1.8	1996 ->	CORDOBA Vario 1.6	1999-02	OCTAVIA Combi 1.6	1998 ->
A3 1.8 Quattro	1998 ->	IBIZA III 1.6	1999-02	OCTAVIA Combi 1.8 T	1998 ->
A3 1.8 T	1996 ->	IBIZA III 1.8 T 20V Cupra	2000-02	OCTAVIA Combi 1.8 T 4x4	2001 ->
A3 1.8 T Quattro	1996 ->	LEON 1.6	1999-06	VOLKSWAGEN	
A3 S3 Quattro	1999 ->	LEON 1.8 20V T	1999-06	BORA 1.6, 1.8	1998-05
TT 1.8 T	1998-06	LEON 1.8 20V T 4	1999-06	BORA Kombi 1.6	1999-05
TT 1.8 T Quattro	1998-06	TOLEDO II 1.6	1999-00	BORA Kombi 1.8 4motion	1999-05
TT Roadster 1.8 T	1999-06	TOLEDO II 1.8 20VT	2001-06	GOLF IV 1.6, 1.8	1997-06
TT Roadster 1.8 T Quattro	1999-06	SKODA		POLO CLASSIC 1001.6	1995-01
		OCTAVIA 1.6	1997 ->	POLO Variant 1.6	1997-01
		OCTAVIA 1.8 T	1997 ->		

Reemplaza / Suitable:
VW 06A 905 377 B


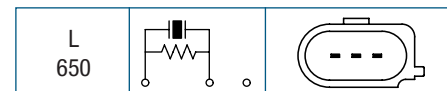
60126

AUDI		SKODA		VOLKSWAGEN	
A3 1.8	1996 ->	FABIA 1.2	2003-08	POLO 1.2	2002-07
SEAT		FABIA Combi 1.2	2003-07	POLO 1.2 12V	2001-07
CORDOBA 1.2	2002 ->	FABIA Praktik 1.2	2003-07		
CORDOBA 1.2 12V	2006 ->	FABIA Stufenheck 1.2	2003-07		
IBIZA IV 1.2	2002-06				
LEON 1.8 20V	1999-06				
TOLEDO II 1.8 20V	1999-06				

Reemplaza / Suitable:
VW 06A 905 377 D


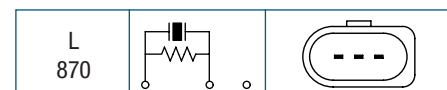
60127

SKODA		VOLKSWAGEN	
SUPERB 2.0	2002-08	PASSAT 2.0	2000-05
		PASSAT 2.0 4motion	2000-05
		PASSAT 2.3 V5	2000-05
		PASSAT 2.3 V5 4motion	2000-05
		PASSAT Variant 2.0	2000-05
		PASSAT Variant 2.0 4motion	2000-05
		PASSAT Variant 2.3 VR5	2000-05

Reemplaza / Suitable:
VW 06B 905 377 A


60128

AUDI		VOLKSWAGEN	
A3 1.9 TDI	2003 ->	PHAETON 4.2 V8 4motion	2003 ->
A3 2.0 TDI	2005 ->		
A3 2.0 TDI Quattro	2006 ->		
A3 CABRIO 1.6 TDI	2009 ->		
A3 CABRIO 1.9 TDI	2008 ->		
A3 CABRIO 2.0 TDI	2008 ->		
A3 SPORTBACK 1.9 TDI	2004 ->		
A3 SPORTBACK 2.0 TDI	2005 ->		
A6 2.0 TFSI	2005 ->		
A6 AVANT 2.0 TFSI	2005 ->		
A8 3.7 Quattro	2002 ->		
A8 4.2 Quattro	2002 ->		

Reemplaza / Suitable:
VW 077 905 377 F
 077 905 377 D




60129

AUDI		AUDI Cont.		SKODA	
A4 1.8 T, Quattro	1995 ->	A6 2.0	2001-05	SUPERB 1.8 T	2002-08
A4 2.0	2000 ->	A6 2.4, Quattro	1997-05	SUPERB 2.8 V6	2002-08
A4 2.4	2001-04	A6 2.7 T Quattro	2001-05	VOLKSWAGEN	
A4 3.0, Quattro	2000-06	A6 3.0, Quattro	2001-06	PASSAT 1.8 T 20V	2000-05
A4 Avant 1.8 T, Quattro	1996 ->	A6 Avant 1.8 T, Quattro	1997-05	PASSAT 2.0	2001-05
A4 Avant 2.0	2001 ->	A6 Avant 2.0	2001-05	PASSAT Variant 1.8 T 20V	2000-05
A4 Avant 2.4	2001-04	A6 Avant 2.4, Quattro	1997-05	PASSAT Variant 2.0	2001-05
A4 Avant 3.0	2001-06	A6 Avant 2.7 T Quattro	2001-05		
A4 Avant 3.0 Quattro	2001-06	A6 Avant 3.0, Quattro	2001-06		
A4 CABRIOLET 1.8, 2.0	2002 ->	A8 3.0	2003 ->		
A4 CABRIOLET 2.4, 3.0	2002-05	ALLROAD 2.7 T Quattro	2000-05		
A6 1.8 T, Quattro	1997-05				



Reemplaza / Suitable:
VW 06C 905 377

L
570



60130

DAEWOO		OPEL		OPEL Cont.	
MATIZ 0.8	1998 ->	ASTRA F 1.8 i 16V	1993-98	VECTRA A 2.0 i 16V 4x4	1994-95
		ASTRA F 2.0 i 16V	1995-98	VECTRA A CC 2.0 i 16V	1994-95
		ASTRA F Cabrio 1.8 i 16V	1994-01	VECTRA B 1.8 i 16V	1995-00
		ASTRA F Caravan 1.8 i 16V	1993-98	VECTRA B 2.0 i 16V	1995-00
		ASTRA F Caravan 2.0 i 16V	1995-98	VECTRA B Caravan 1.8 i 16V	1996-00
		ASTRA F CC 1.8 i 16V	1993-98	VECTRA B Caravan 2.0 i 16V	1996-00
		ASTRA F CC 2.0 i 16V	1995-98	VECTRA B CC 1.8 i 16V	1995-00
		CALIBRA 2.0 i 16V	1994-97	VECTRA B CC 2.0 i 16V	1995-00
		CALIBRA A 2.0 i 16V 4x4	1994-97		
		OMEGA B 2.0 16V	1994-99		
		OMEGA B Caravan 2.0 16V	1994-99		
		VECTRA A 2.0 i 16V	1994-95		



Reemplaza / Suitable:
Daewoo 90411972
94580819
96508199
GM 90411972
Opel 6238312

L
350



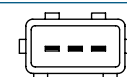
60132

CHEVROLET		DAEWOO		OPEL	
AVEO 1.2, 1.4	2006 ->	EVANDA 2.0	2002 ->	ANTARA 2.4	2006 ->
CAPTIVA 2.4	2006 ->	KALOS 1.2	2003 ->		
EPICA 2.0, 2.5	2005 ->	LACETTI 1.4, 1.6, 1.8	2004 ->		
EVANDA 2.0	2005 ->	LANOS 1.4, 1.5, 1.6	1997 ->		
KALOS 1.2, 1.4	2005 ->	LEGANZA 2.0 16V, 2.2	1997 ->		
LACETTI 1.4, 1.6, 1.8	2005 ->	MATIZ 0.8, 1.0	1998 ->		
MATIZ 0.8, 1.0	2005 ->	NUBIRA 1.6, 1.8, 2.0	1997 ->		
NUBIRA 1.6, 1.8	2005 ->	TACUMA 1.6	2000 ->		
SPARK 0.8, 1.0 SX	2005 ->	TACUMA 1.8	2000 ->		
TACUMA 1.6, 2.0	2005 ->	TACUMA 2.0	2000 ->		



Reemplaza / Suitable:
Daewoo 96253545
GM 96253545
Opel 4805506

L
350



60134

CITRÖEN		PEUGEOT	
XANTIA 1.8 i 16V	1995-98	306 1.8 16V	1997-01
XANTIA Break 1.8 i 16V	1995-98	306 Break 1.8 16V	1997-02
XSARA 1.8 i 16V	1997-00	306 CABRIOLET 1.8 16V	2000-02
XSARA 2.0 16V	1997-00	306 Fastback 1.8 16V	1997-01
XSARA Break 1.8 i 16V	1997-00	306 Fastback 2.0 S16	1996-01
XSARA COUPE 1.8 i 16V	1998-00		
ZX 2.0 i 16V	1996-97		



Reemplaza / Suitable:
Citroën 96.233.678.80
Peugeot 5946.24

L
250



60136

FIAT		FIAT Cont.		LANCIA	
BARCETTA 1.8 16V	1995 ->	MULTIPLA 1.6 16V Blupower	1999 ->	DEDRA 1.6 16V	1996-99
BRAVA 1.6 16V	1996-01	PALIO Weekend 1.6 16V	1996-01	DEDRA 1.8 16V LE	1996-99
BRAVA 1.8 GT 16V	1995-01	SIENA 1.6 16V	1998 ->	DEDRA 1.8 GT 16V	1996-99
BRAVO 1.8 GT	1995-01			DEDRA SW 1.6 16V	1996-99
COUPE 1.8 16V	1996-00			DEDRA SW 1.8 16V LE	1996-99
MAREA 1.6 100 16V	1996 ->			DEDRA SW 1.8 GT 16V	1996-99
MAREA 1.6 100 16V Bipower	1999 ->			DELTA II 1.6 i.e. 16V	1996-99
MAREA 1.8 115 16V	1996 ->			DELTA II 1.8 i.e. 16V GT	1996-99
MAREA Weekend 1.6 100 16V	1996 ->			LYBRA 1.6 16V	1999 ->
MAREA Weekend 1.8 115 16V	1996 ->			LYBRA SW 1.6 16V	1999 ->
MULTIPLA 1.6 10016V	1999 ->				
MULTIPLA 1.6 16V Bipower	1999 ->				



Reemplaza / Suitable:
Fiat 60602832

L
200



60138

SEAT		VOLKSWAGEN		VOLKSWAGEN Cont.	
ALHAMBRA 1.9 TDI	2005 ->	CORRADO 2.0 i	1993-95	PASSAT Variant 2.8 VR6	1991-97
ALHAMBRA 2.0 i	1996 ->	CORRADO 2.9 VR6	1991-95	SHARAN 2.0	1995 ->
CORDOBA 1.8 i 16V	1993-96	GOLF III 2.0	1991-97	SHARAN 2.8 VR6	1995-00
CORDOBA 2.0 i	1993-99	GOLF III 2.8 VR6	1992-97	TRANSPORTER IV 2.5	1990-03
IBIZA II 1.0 i	1996-99	GOLF III 2.9 VR6 Syncro	1994-97	VENTO 2.0	1991-98
IBIZA II 1.4 i	1993-99	GOLF III CABRIOLET 2.0	1993-98	VENTO 2.8	1992-98
IBIZA II 1.6 i	1994-99	GOLF III Variant 2.0	1993-99	CADDY 2.8, 1.4	1995-04
IBIZA II 1.8 i 16V	1993-96	GOLF III Variant 2.9 VR6	1994-99	CADDY 2.8, 1.6	1995-00
IBIZA II 2.0 i	1993-99	GOLF IV CABRIOLET 2.0	1998-02		
LEON 1.8 20V	1999-06	PASSAT 2.0	1990-96		
TOLEDO I 2.0 i	1991-99	PASSAT 2.8 VR6	1991-96		
TOLEDO II 1.8 20V	1999-06	PASSAT Variant 2.0	1990-97		



Reemplaza / Suitable:
VW 037 905 377
037 905 377 A

L
350





60139

AUDI		SKODA		VOLKSWAGEN	
A3 1.8, Quattro	1996 ->	FABIA 1.0	1999-02	BORA 1.8	1998-05
A3 1.8 T, Quattro	1996 ->	FABIA 1.4	1999-08	BORA 1.8 4motion	1999-05
A3 S3 Quattro	1999 ->	FABIA Combi 1.4	2000-07	BORA Kombi 1.8 4motion	1999-05
TT 1.8 T, Quattro	1998-06	FABIA Praktik 1.4	2001-07	GOLF IV 1.8	1997-05
TT Roadster 1.8 T, Quattro	1999-06	FABIA Sedan 1.4	2000-07	GOLF IV 1.8 4motion	1998-05
SEAT		OCTAVIA 1.4	1999 ->	GOLF IV 1.8 T	1997-05
ALHAMBRA 1.8 T 20V	1997 ->	OCTAVIA 1.8	1996 ->	GOLF IV Variant 1.8 4motion	1999-06
LEON 1.8 20V	1999-06	OCTAVIA Combi 1.8 20V	1998 ->	GOLF IV Variant 1.8 T	2000-06
TOLEDO II 1.8	1999-06	OCTAVIA Combi 1.8 T	1998 ->	LUPU 1.0	1998-05
		OCTAVIA Combi 1.8 T 4x4	2001 ->	SHARAN 1.8 T 20V	1997 ->

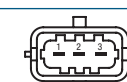
Reemplaza / Suitable:
VW 06A 905 377 A

L
230


60140

OPEL		OPEL Cont.		SAAB	
ASTRA G Cabriolet 1.8 16V	2001-05	TIGRA TwinTop 1.8	2004 ->	9-3 1.8 i	2004 ->
ASTRA G Caravan 1.8 16V	2000-04	VECTRA C 1.8	2002 ->	9-3 Kombi 1.8 i	2005 ->
ASTRA G CC 1.8 16V	2000-05	VECTRA C 1.8 16V	2002 ->		
ASTRA G COUPE 1.8 16V	2000-05	VECTRA C Caravan 1.8	2003 ->		
ASTRA G Sedan 1.8 16V	2000-05	VECTRA C GTS 1.8 16V	2002 ->		
ASTRA H 1.8	2004 ->	ZAFIRA 1.8 16V	2000-05		
ASTRA H Caravan 1.8	2004 ->				
ASTRA H GTC 1.8	2005 ->				
ASTRA H TwinTop 1.8	2005 ->				
CORSA C 1.8	2000 ->				
MERIVA 1.8	2003 ->				
SIGNUM 1.8	2003 ->				

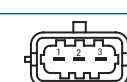
Reemplaza / Suitable:
GM 9158720
Opel 62 38 181
Saab 9158720

L
400


60141

OPEL	
ASTRA G Caravan 2.0 16V	1998-04
ASTRA G CC 2.0 16V	1998-05
ASTRA G Stufenheck 2.0 16V	1998-05
OMEGA B 2.2 16V	1999-03
OMEGA B Caravan 2.2 16V	1999-03
VECTRA B 1.8 i 16V	2000-02
VECTRA B Caravan 1.8 i 16V	2000-03
VECTRA B CC 1.8 i 16V	2000-03

Reemplaza / Suitable:
GM 90530585
Opel 62 38 081

L
450


60143

AUDI		SEAT Cont.		VOLKSWAGEN	
A3 1.6	1996-00	LEON 1.8 20V T	1999-06	BORA 1.6, 1.8	1998-05
A3 1.8, Quattro	1996 ->	LEON 1.8 20V T 4	1999-06	BORA Kombi 1.6	1999-05
A3 1.8 T, Quattro	1996 ->	TOLEDO II 1.6	1999-00	BORA Kombi 1.8 4motion	1999-05
A3 S3 Quattro	1999 ->	TOLEDO II 1.8 20VT	2001-06	GOLF IV 1.6, 1.8	1997-05
TT 1.8 T, Quattro	1998-06	SKODA		GOLF IV Variant 1.6	1999-00
TT Roadster 1.8 T, Quattro	1999-06	OCTAVIA 1.6	1997 ->	GOLF IV Variant 1.8 4motion	1999-06
SEAT		OCTAVIA 1.8	1996 ->	GOLF IV Variant 1.8 T	2000-06
ALHAMBRA 1.8 T 20V	1997 ->	OCTAVIA 1.8 T	1997 ->	POLO CLASSIC 1001.6	1995-01
CORDOBA Fastback 1.6	1999-02	OCTAVIA 1.8 T 4x4	2001 ->	POLO Variant 1.6	1997-01
CORDOBA Vario 1.6	1999-02	OCTAVIA Combi 1.6, 1.8	1998 ->	SHARAN 1.8 T 20V	1997 ->
IBIZA III 1.6	1999-02				
LEON 1.6	1999-06				

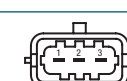
Reemplaza / Suitable:
VW 06A 905 377

L
175


60145

OPEL		OPEL Cont.	
ASTRA G Caravan 1.8 16V	1998-00	ZAFIRA 2.2	2005 ->
ASTRA G CC 1.8 16V	1998-00		
ASTRA G COUPE 1.8 16V	2000-00		
ASTRA G Sedan 1.8 16V	1998-00		
SIGNUM 2.2 direct	2003 ->		
VECTRA B 1.8 i 16V	1995-00		
VECTRA B Caravan 1.8 i 16V	1996-00		
VECTRA B CC 1.8 i 16V	1995-00		
VECTRA C 2.2 direct	2003 ->		
VECTRA C Caravan 2.2 direct	2003 ->		
VECTRA C GTS 2.2 direct	2003 ->		
ZAFIRA 1.8 16V	1999-00		

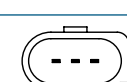
Reemplaza / Suitable:
GM 24456516
 90536392
Opel 6238221
 6238099

L
350


60149

VOLKSWAGEN	
PASSAT 4.0 W8 4motion	2001-05
PASSAT Variant 4.0 W8	2001-05

Reemplaza / Suitable:
VW 07D 905 376 D
 07D 905 377 K

L
570


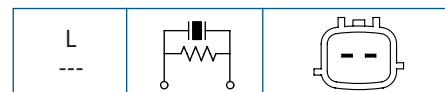


60154

INFINITI		NISSAN		RENAULT	
FX 35	2003 ->	350 Z 3.5 CV280	2003 ->	ESPACE IV 3.5 V6	2002 ->
FX 45	2003 ->	350 Z 3.5 CV301	2006 ->	VEL SATIS 3.5 V6	2002 ->
		350 Z 3.5 CV313	2005 ->		
		350 Z Roadster 3.5 CV280	2005 ->		
		350 Z Roadster 3.5 CV301	2006 ->		
		350 Z Roadster 3.5 CV313	2005 ->		
		MURANO 3.5 4x4	2005 ->		
		PATHFINDER 3.5 V6 4WD	2000-04		



Reemplaza / Suitable:
Nissan 22060-2A000
Renault 22 06 02A 000

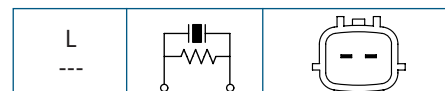


60156

FIAT		FIAT Cont.		FIAT Cont.	
500 1.2	2007 ->	MULTIPLA 1.6 16V Blupower	2002 ->	STILOMulti Wagon 1.6 16V	2003 ->
BARCETTA 1.8 16V	1995 ->	PALIO Weekend 1.2	2001 ->	STILOMulti Wagon 1.8 16V	2003 ->
DOBLO 1.2	2001 ->	PALIO Weekend 1.6 16V	2001 ->	STRADA 1.2	2003 ->
DOBLO 1.4	2005 ->	PANDA 1.1, 1.2	2003 ->		
DOBLO 1.6 16V	2001 ->	PANDA 1100	1995-03	LANCIA	
DOBLO 1.6 Natural Power	2002 ->	PUNTO 1.2 60	1999 ->	LYBRA 1.8 16V	1999 ->
DOBLO Cargo 1.2, 1.4, 1.6	2001 ->	PUNTO 1.2 Natural Power	2003 ->	LYBRA SW 1.8 16V	1999 ->
GRANDE PUNTO 1.2, 1.4	2005 ->	PUNTO 1.8 130 HGT	1999 ->	MUSA 1.4	2005 ->
IDEA 1.4	2005 ->	PUNTO Van 1.2 60	2000 ->	Y 1.2	1996-03
LINEA 1.4	2007 ->	SEICENTO 1.1	1998 ->	YPSILON 1.2	2003 ->
MAREA 1.6	2000-02	STILO 1.6 16V	2001 ->	YPSILON 1.4	2006 ->
MULTIPLA 1.6 16V Bipower	2001 ->	STILO 1.8 16V	2001 ->		



Reemplaza / Suitable:
Fiat 46538111
46815152
55190562

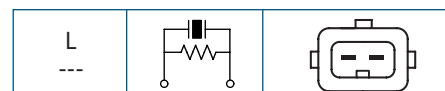


60158

MERCEDES BENZ		MERCEDES BENZ Cont.		MERCEDES BENZ Cont.	
C-CLASS C 240, 280, 320	1997 ->	G-CLASS G	1997 ->	SL 600, 65 AMG	1992 ->
C-CLASS C 32 AMG, 43, 55	1997 ->	M-CLASS ML	1998 ->	SLK 32 AMG Kompressor	2001-04
C-CLASS COUPE C 320	2002 ->	R-CLASS R 500 4-matic	2006 ->	SLK 320	2000-04
C-CLASS Kombi C	1997-01	S-CLASS 600 SE,SEL	1991-92	SLK 55 AMG	2004 ->
C-CLASS T-Model C	2001 ->	S-CLASS COUPE SEC/CL	1992-99	VIANO 3.2, 3.7	2003 ->
CLK 240, 320, 430, 500, 55	1997 ->	S-CLASS S	1993-05	VITO 119, 122, 123	2003 ->
CLK CABRIOLET	1998 ->	S-CLASS S 600	2005 ->		
CLS 500, 55 AMG	2004 ->	S-CLASS S 65 AMG	2005 ->	MAYBACH	
E-CLASS E	1995 ->	SL 280, 320, 350, 500	1992 ->	MAYBACH 5.5 V12	2002 ->
E-CLASS Kombi E	1996-03	SL 55 AMG	2001-02	MAYBACH 6.0 V12	2005 ->
E-CLASS T-Model E	2003 ->	SL 55 AMG	2006 ->	PUCH	
G-CLASS Cabrio G 320, 500	1997 ->	SL 55 AMG Kompressor	2002 ->	G-MODELL G 500	1998 ->
				G-MODELL G 55 AMG	1999 ->



Reemplaza / Suitable:
Bosch 0261 231 110
Mercedes 003 153 86 28

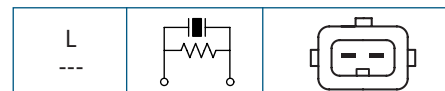


60159

CITROËN		CITROËN Cont.		PEUGEOT Cont.	
BERLINGO 1.1 i	1996 ->	XSARA Break 1.4 i	1997-05	306 Break 1.4, 1.6	1997-02
BERLINGO 1.4 i	1996 ->	XSARA Break 1.6 16V	2000-05	306 CABRIOLET 1.6	1996-02
BERLINGO 1.6 16V	2000 ->	XSARA Break 1.6 i	1997-00	306 Fastback 1.4, 1.6	1993-01
C2 1.1	2003 ->	XSARA COUPE 1.4 i	1998-05	PARTNER Combispace 1.1	1996 ->
C2 1.4	2003 ->	XSARA COUPE 1.6 16V	2000-05	PARTNER Combispace 1.4	1996 ->
C3 1.1 i	2002 ->	XSARA PICASSO 1.6	1999 ->	PARTNER Combispace 1.6	2001 ->
C3 1.4 i	2002 ->			MERCEDES BENZ	
C3 1.4 i Bivalent	2002 ->	PEUGEOT		CITARO G	2000 ->
C3 1.6 16V	2002 ->	106 II 1.4 i	1996 ->	CITARO N	2000 ->
C3 Pluriel 1.4	2003 ->	206 Fastback 1.4 i, 1.6 i	1998 ->	CITARO NG	2000 ->
SAXO 1.4, 1.6	1996-04	306 1.4 SL	1994-01		
XSARA 1.4, 1.6	1997-05	306 1.6	2000-01		
		306 1.6 SR	1994-00		



Reemplaza / Suitable:
Citroën 96 275 932
96 384 235
Peugeot 5946.28
Mercedes 004 153 62 28

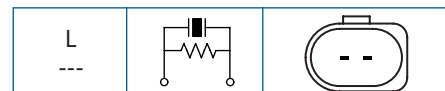


60160

AUDI		SEAT Cont.		VOLKSWAGEN Cont.	
A2, A3, A4, A6, Q7, TT	1996 ->	TOLEDO II, III	1999-09	JETTA III 1.4, 1.6, 2.0	2005 ->
FORD		SKODA		LUPO 1.4 FSI	2001-05
GALAXY 2.8 V6	2000-06	FABIA, OCTAVIA	1997 ->	MULTIVAN V 2.0, 3.2	2003 ->
PORSCHE		PRAKTIK 1.2, 1.4	2007 ->	NEW BEETLE	1998 ->
CAYENNE 3.2	2003 ->	ROOMSTER 1.2, 1.4, 1.6	2006 ->	PASSAT, PHAETON	2002 ->
SEAT		SUPERB	2008 ->	POLO	2001 ->
ALHAMBRA	1996 ->	YETI 1.2 TSI	2009 ->	SCIROCCO	2008 ->
ALTEA 1.4, 1.6	2004 ->			SHARAN	1995 ->
CORDOBA 1.2, 1.4, 1.6, 2.0	2002 ->	VOLKSWAGEN		TIGUAN, TOUAREG	2002 ->
EXEO	2009 ->	BORA	1998-05	TOURAN	2003 ->
IBIZA IV, V	2002 ->	CADDY III	2004 ->	TRANSPORTER V	2003 ->
LEON	1999 ->	EOS, FOX	2005 ->		
		GOLF IV, PLUS, V, VI	1997 ->		



Reemplaza / Suitable:
Ford 1205185
YM2112A699BA
Porsche 955 606 125 00
Volkswagen 030 905 377 C

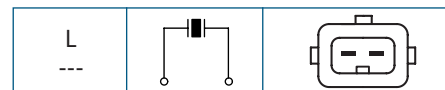


60161

ALFA ROMEO		LANCIA		MERCEDES BENZ Cont.	
159 1.8 MPI	2007 ->	PHEDRA, ZETA	2000 ->	VANEO, VIANO	2002 ->
CITROËN		MERCEDES BENZ		VITO	1996 ->
BERLINGO, C5, C4, C8	1996 ->	A-CLASS A, C-CLASS C	1993-04	OPEL	
EVASION 2.0 16V	2000-02	B-CLASS B	2005 ->	ASTRA, SIGNUM	2005 ->
JUMPER, JUMPY	2000 ->	CLC	2008 ->	VECTRA, ZAFIRA	2005 ->
SAXO, XANTIA, XSARA, ZX	1991-05	CLK 200, 230	1997-02	PEUGEOT	
DAEWOO		COUPE 220 CE, 320 CE	1992-93	106, 206, 306, 307	1993 ->
KORANDO, MUSSO	1999 ->	E-CLASS E, G-CLASS G	1993 ->	406, 407, 607, 806, 807	1995 ->
FIAT		KOMBI	1992-93	BOXER, EXPERT, PARTNER	1996 ->
CROMA 1.8 16V	2005 ->	M-CLASS, S-CLASS	1991-05	SSANGYONG	
DUCATO, SCUDO, ULYSSE	2000 ->	SL, SLK, SPRINTER	1993-06	KORANDO 3.2	1996 ->
		Sedan 220E, 280E, 320E	1992-93		



Reemplaza / Suitable:
Alfa Romeo 55353316
Daewoo 0031538928
Fiat 9617756080
GM 55353316
Mercedes 003 153 89 28
006 153 36 28
Opel 6235703
Peugeot 5946.23
Ssangyong 0031538928

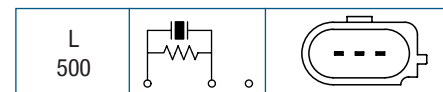




60163

AUDI		SEAT		VOLKSWAGEN	
A3 1.8 TFSI, 2.0	2004 ->	ALTEA 1.8 TFSI, 2.0	2006 ->	EOS 2.0 TFSI	2006 ->
A3 S3 Quattro	2006 ->	LEON 1.8 TSI	2007 ->	GOLF V 2.0 GTI	2004 ->
A4 1.8 TFSI, 3.2 FSI	2005 ->	LEON 2.0 TFSI	2005 ->	GOLF V Variant 2.0	2007 ->
A5 1.8 TFSI, 3.2 FSI	2007 ->	TOLEDO III 1.8 TFSI	2007 ->	JETTA III 2.0 TFSI	2005 ->
A6 2.4, 2.8, 3.0, 3.2	2004 ->	TOLEDO III 2.0 TFSI	2005-09	PASSAT 1.8 TSI	2007 ->
A8 2.8 FSI, 3.2	2005 ->	SKODA		PASSAT 2.0 TFSI	2005 ->
Q5 2.0, 3.2	2008 ->	OCTAVIA 2.0 RS	2005 ->	PASSAT CC 1.8 TSI	2008 ->
R8 5.2 FSI	2009 ->	OCTAVIA Combi 2.0 RS	2005 ->	PASSAT CC 2.0 TSI	2008 ->
TT 1.8 TFSI, 2.0	2006 ->	SUPERB 1.8 TSI	2008 ->	PASSAT Variant 1.8 TSI	2007 ->
		SUPERB 1.8 TSI 4x4	2008 ->	PASSAT Variant 2.0 TFSI	2005 ->
		YETI 1.8 TSI	2009 ->	SCIROCCO 2.0 TSI	2008 ->
				TIGUAN 2.0 TFSI 4motion	2007 ->

Reemplaza / Suitable:
VW

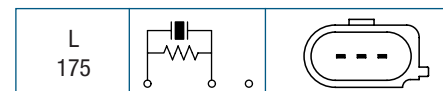
06E 905 376
06E 905 376 A
06E 905 377 A


60168

AUDI		SEAT		VOLKSWAGEN	
A3 2.0 TFSI	2004 ->	ALTEA 2.0 TFSI	2006 ->	EOS 2.0 TFSI	2006 ->
A3 2.0 TFSI Quattro	2004 ->	ALTEA XL 2.0 TFSI 4x4	2007 ->	GOLF V 2.0 GTI	2004 ->
A3 S3 Quattro CV265	2006 ->	LEON 2.0 TFSI CV200	2005 ->	GOLF V Variant 2.0	2007 ->
A3 S3 Quattro CV256	2007 ->	LEON 2.0 TFSI CV240	2006 ->	JETTA III 2.0 TFSI	2005 ->
A3 Sportback 2.0 TFSI	2004 ->	TOLEDO III 2.0 TFSI	2005-09	PASSAT 2.0 TFSI	2005 ->
A3 Sportback S3 Quattro	2008 ->	SKODA		PASSAT Variant 2.0 TFSI	2005 ->
TT 2.0 TFSI	2006 ->	OCTAVIA 2.0 RS	2005 ->		
TT 2.0 TFSI Quattro	2008 ->	OCTAVIA Combi 2.0 RS	2005 ->		
TT Roadster 2.0 TFSI	2007 ->				
TT Roadster 2.0 TFSI Quattro	2008 ->				

Reemplaza / Suitable:
VW

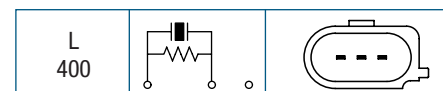
06F 905 377



60170

AUDI	
A4 Avant S4 Quattro	2003 ->
A4 CABRIOLET S4 Quattro	2004 ->
A4 S4 Quattro	2003 ->
A6 4.2 Quattro	2004-06
A6 Avant 4.2 Quattro	2005 ->
A6 Avant S6 Quattro	2006 ->
A6 S6 Quattro	2006 ->
A8 S8 Quattro	2006 ->
ALLROAD 4.2 V8	2002-05

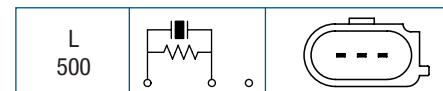
Reemplaza / Suitable:
VW

079 905 377 H
079 905 377 D


60174

AUDI		AUDI Cont.		AUDI Cont.	
A4 3.2 FSI	2005 ->	A6 2.8 FSI Quattro	2007-08	A6 Avant 3.2 FSI Quattro	2005-08
A4 3.2 FSI Quattro CV255	2005 ->	A6 3.0 TFSI Quattro	2008 ->	A8 2.8 FSI	2007 ->
A4 3.2 FSI Quattro CV265	2007 ->	A6 3.2 FSI	2004-08	A8 3.2 FSI	2005 ->
A4 Avant 3.2 FSI CV255	2005 ->	A6 3.2 FSI Quattro	2004-08	A8 3.2 FSI Quattro	2005 ->
A4 Avant 3.2 FSI CV265	2008 ->	A6 Allroad 3.0 TFSI Quattro	2008 ->	Q5 3.2 FSI	2008 ->
A4 Avant 3.2 FSI Quattro	2005 ->	A6 Allroad 3.2 FSI Quattro	2006 ->	R8 5.2 FSI	2009 ->
A4 CABRIOLET 3.2 FSI	2006 ->	A6 Avant 2.4	2005-08		
A5 3.2 FSI	2007 ->	A6 Avant 2.4 Quattro	2005-08		
A5 3.2 FSI Quattro	2007 ->	A6 Avant 2.8 FSI	2006-08		
A6 2.4	2004-08	A6 Avant 2.8 FSI Quattro	2007-08		
A6 2.4 Quattro	2005-08	A6 Avant 3.0 TFSI Quattro	2008 ->		
A6 2.8 FSI	2006-08	A6 Avant 3.2 FSI	2005-08		

Reemplaza / Suitable:
VW

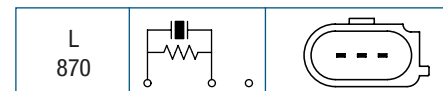
06E 905 376 B
06E 905 377 B


60183

AUDI	
A8 6.0 W12 Quattro	2001-02

Reemplaza / Suitable:
VW

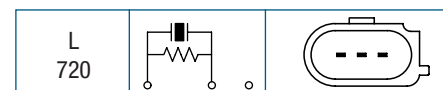
07C 905 377 D



60185

VOLKSWAGEN	
JETTA III 2.5 FSI	2006 ->
NEW BEETLE 2.5	2005 ->
NEW BEETLE Cabrio 2.5	2005 ->

Reemplaza / Suitable:
VW

07K 905 377
07K 905 377 B




60187

VOLKSWAGEN
TOUAREG 6.0 W12 2005-10

Reemplaza / Suitable:
VW 07C 905 377 AM



L
350



60190

AUDI		AUDI Cont.		VOLKSWAGEN	
100 2.0, 2.3, 2.6, 2.8, S4	1986-94	CABRIOLET 1.8	1997-00	GOLF II, III	1986-99
200 2.2 20V Turbo Quattro	1989-90	CABRIOLET 2.3 E	1991-94	JETTA II 1.8	1984-91
80 1.6, 2.0, 2.3, 2.6, 2.8	1988-96	CABRIOLET 2.6, 2.8	1992-00	PASSAT 1.8	1996-00
80 Avant RS2 Quattro	1994-95	COUPE 2.0, 2.3, 2.6, 2.8	1987-96	PASSAT 2.3 VR5	1996-00
80 Avant S2 Quattro	1993-95	COUPE S2 Quattro	1992-96	PASSAT 2.8 V6	1996-00
80 S2 Quattro	1993-94	Quattro 2.2 20V	1989-91	PASSAT Variant 2.3 VR5	1997-00
90 2.0, 2.3 E	1987-91			PASSAT Variant 2.8 V6	1997-00
A4 1.8, 2.4, 2.6, 2.8	1995-01	CORDOBA	1996-99	POLO CLASSIC 1001.6	1995-01
A6 1.8, 2.0, 2.4, 2.6, 2.8, 3.7	1994-05	IBIZA	1996-99	POLO Variant 1.6	1997-01
A6 4.2 Quattro	1998-05	TOLEDO	1996-99	VENTO 1.6	1994-98
A6 S6 Quattro	1999-05				
A8 2.8, Quattro	1994-02				

Reemplaza / Suitable:
Porsche 928 606 144 00
Seat 054 905 377 G
Volkswagen 054 905 377



L
550



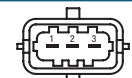
60191

PORSCHE		PORSCHE Cont.	
911 3.6 Carrera CV272	1993-95	911 Targa 3.6 Carrera	1995-97
911 3.6 Carrera CV286	1995-97	911 Targa 3.7 Carrera	1996-97
911 3.6 Carrera 4 CV272	1994-95		
911 3.6 Carrera 4 CV286	1995-97		
911 3.6 Turbo 4	1995-97		
911 3.6 Turbo GT2	1995-97		
911 3.6 Turbo GT2 4	1995-97		
911 3.8 Carrera RS	1995-97		
911 3.8 Carrera RS 4	1995-97		
911 Cabrio 3.6 Carrera	1994-97		
911 Cabrio 3.6 Carrera 4	1994-97		
911 Cabrio 3.8 Carrera	1995-97		

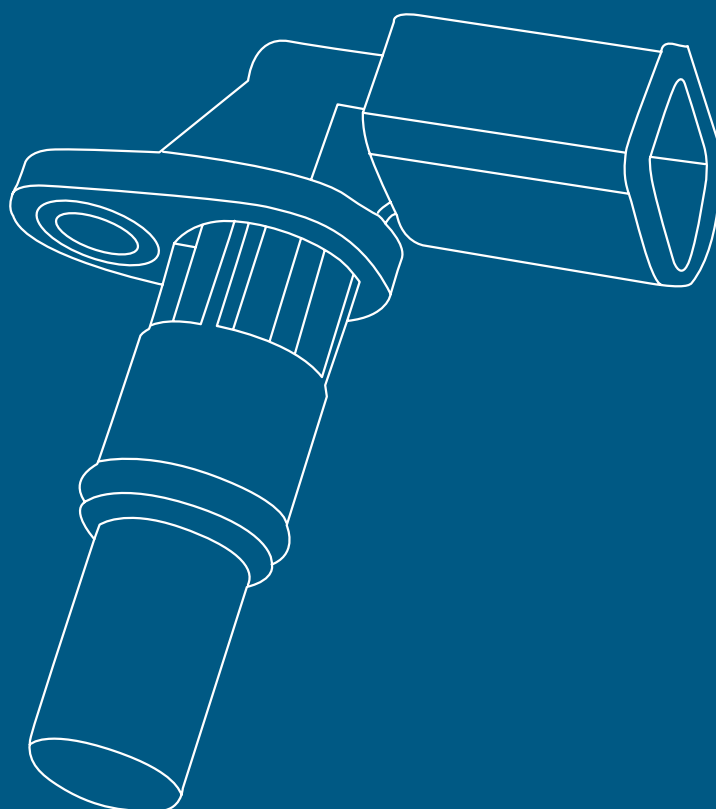
Reemplaza / Suitable:
Bosch 0 261 231 118
Porsche 993 606 141 00



L
410



[illegible]



CAPTADORES DE IMPULSOS
REVOLUTION AND TIMING SENSORS
CAPTEURS DU REGIME ET DES POSITIONS



INFORMACIÓN TÉCNICA

CAPTADORES DE IMPULSOS

Los sensores de revoluciones, de posición de cigüeñal o de árbol de levas generalmente están ubicados sobre una rueda dentada (o rueda fónica), discos con ventanas sectorizadas ó anillos de material ferromagnético. Dichos sensores detectan las variaciones de flujo magnético que producen los dientes y valles de la rueda fónica o los relieves de la leva, convirtiendo esa lectura en una señal eléctrica, que va directamente a la unidad de control y comprueba, según el sensor, los siguientes aspectos:

-Sensores de Cigüeñal (Crankshaft position sensor):

Son los encargados de verificar la posición del punto muerto superior. La unidad de control del vehículo utiliza esta información para calcular el tiempo de inyección y el sistema de arranque.

-Sensores de Árbol de levas (Camshaft Position sensor):

Controlan la secuencia de inyección y la sincronización de la chispa de encendido.

-Sensores de revoluciones (Speed sensor):

Su misión es controlar velocidad en revoluciones del motor, así como los puntos de cambio de la transmisión.

Estos sensores pueden utilizarse en cualquier tipo de motor ya sea gasolina o diesel.

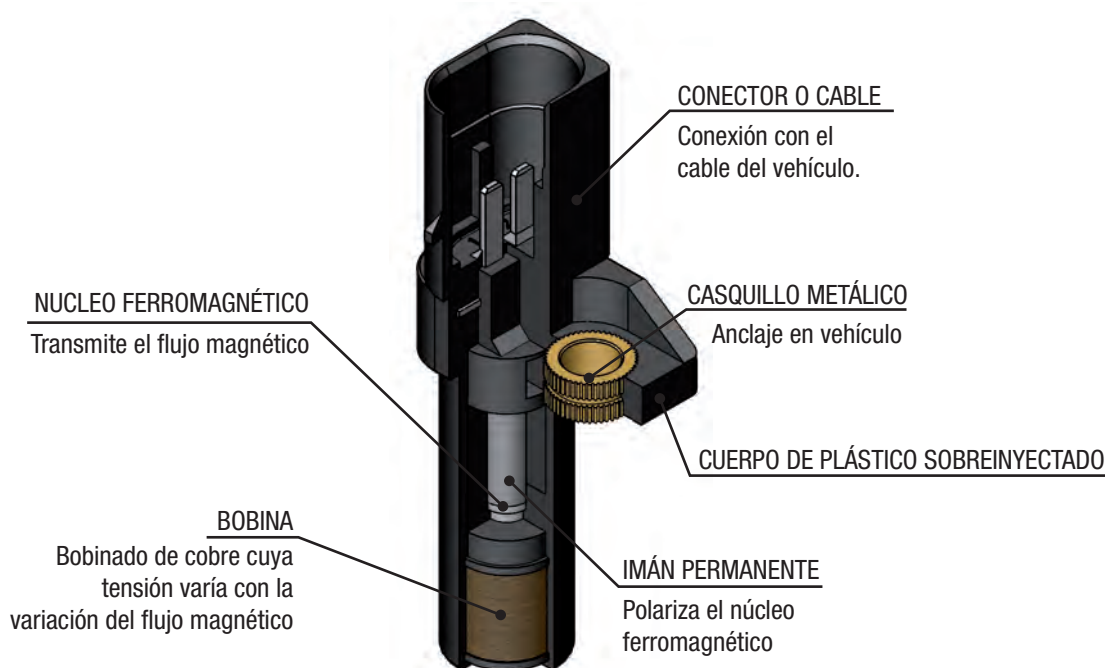
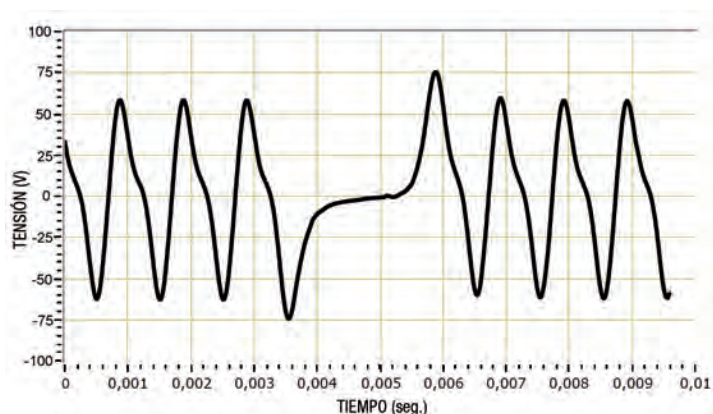
Este tipo de sensores, también conocidos como captadores de impulsos, FAE los desglosa en 2 grupos:

1-Captadores de impulsos inductivos

2-Captadores de Efecto Hall

1-Captadores de impulsos inductivos

Se componen de una bobina sobre un núcleo metálico y un imán permanente. El sensor está montado frente a una rueda fónica. El flujo magnético que se produce entre los dientes y los valles de la rueda, inducen una tensión sinusoidal de salida que es proporcional a la velocidad de las variaciones que detecta el sensor. La tensión varía en función de la velocidad de rotación y la distancia a la rueda dentada (Gap) tanto en frecuencia como en amplitud. Esas variaciones hacen que la señal que obtengamos sea la siguiente:



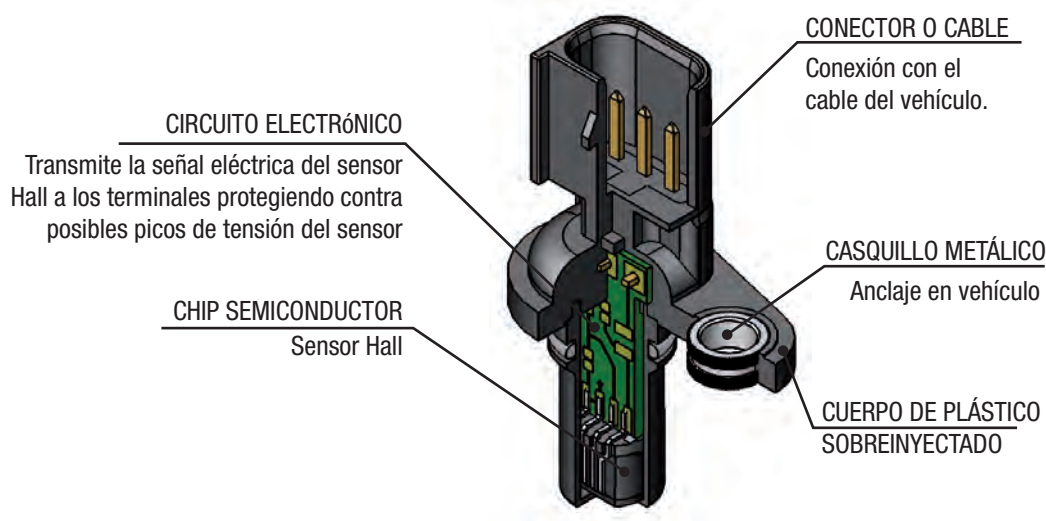
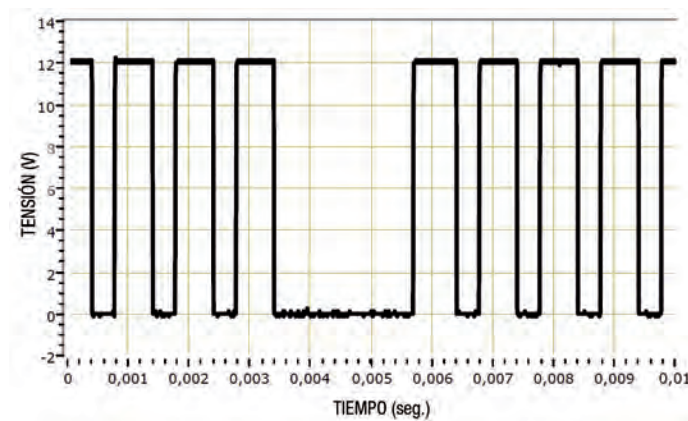


INFORMACIÓN TÉCNICA

2-Captadores de efecto Hall

Se componen de un sensor semiconductor, acoplado a un circuito electrónico que protege el sensor de posibles picos de tensión y un imán permanente. El principio de funcionamiento se basa en el llamado Efecto Hall, que consiste en la generación de un voltaje transversal (tensión de hall), al sentido de la corriente en un conductor, cuando en el se le aplica perpendicularmente la acción de un campo magnético.

La respuesta que obtenemos del sensor es una señal cuadrada de salida que es proporcional a las variaciones que detecta el sensor. Esas variaciones hacen que la señal que obtengamos sea la siguiente:



INSTRUCCIONES DE MONTAJE

Sustituya la junta de estanqueidad cada vez que cambie un sensor. Las juntas no realizan su función de hermeticidad si están usadas o desgastadas.

ASPECTOS VISUALES Y CAUSAS DE FALLO EN LOS SENSORES

Debe verificarse el cuerpo exterior, el conector y los cables asegurándose de su buen estado.

Compruebe también si el captador muestra alguna grieta, abolladura o golpe que pudiera haberlo dañado.

Hay que tener en cuenta que, como norma general, una inspección visual no es suficiente para poder asegurar el buen o mal funcionamiento de la pieza, pero ayuda a realizar un primer diagnóstico.

1- Grietas o roturas. Tensiones provocadas por estrés mecánico.

2- Deformaciones y abolladuras. Sobrecalentamiento del sensor

3- Sin señal. Rotura del cable por fricción o exceso de vibración, cortocircuitos, roturas internas del sensor por estrés mecánico o térmico.

SÍNTOMAS DE FALLO DE LOS SENSORES

- Motor no arranca
- Pérdida de potencia
- El velocímetro no funciona
- Encendido del testigo de luz Check Engine
- Fallos en los pulsos de inyección del motor
- Dificultades en el arranque.
- Aumento en el consumo de combustible
- Aumento en los niveles de contaminación

MANTENIMIENTO DE LOS SENSORES

Revisar en cada mantenimiento o cada 25000Km los valores específicos de los sensores. Reemplazar cuando las comprobaciones de funcionamiento no estén dentro de los valores límite especificados.



TECHNICAL INFORMATION

REVOLUTION AND TIMING SENSORS

Revolution, crankshaft or camshaft position sensors are usually located on a gear wheel (phonic wheel), disks consisting of sectorized windows or rings of ferro-magnetic material. These sensors detect magnetic flux variations which are produced by the alternation between the presence and absence of the teeth of the gear wheel, or the cam relief. The reading of the magnetic flux variations are turned into an electrical signal, which goes directly to the control unit and checks, depending of the sensor, the following aspects:

-Crankshaft position sensors:

These sensors verify the top dead center position by detecting the position of the drive shaft. The vehicle control unit uses this information to calculate the time of injection and the ignition system.

-Camshaft Position Sensors:

These sensors control the injection sequence and the synchronization of the ignition spark.

-Speed Sensors:

These sensors control the engine speed in revolutions and the turning points of the transmission.

All these sensors can be used in fuel and diesel engines.

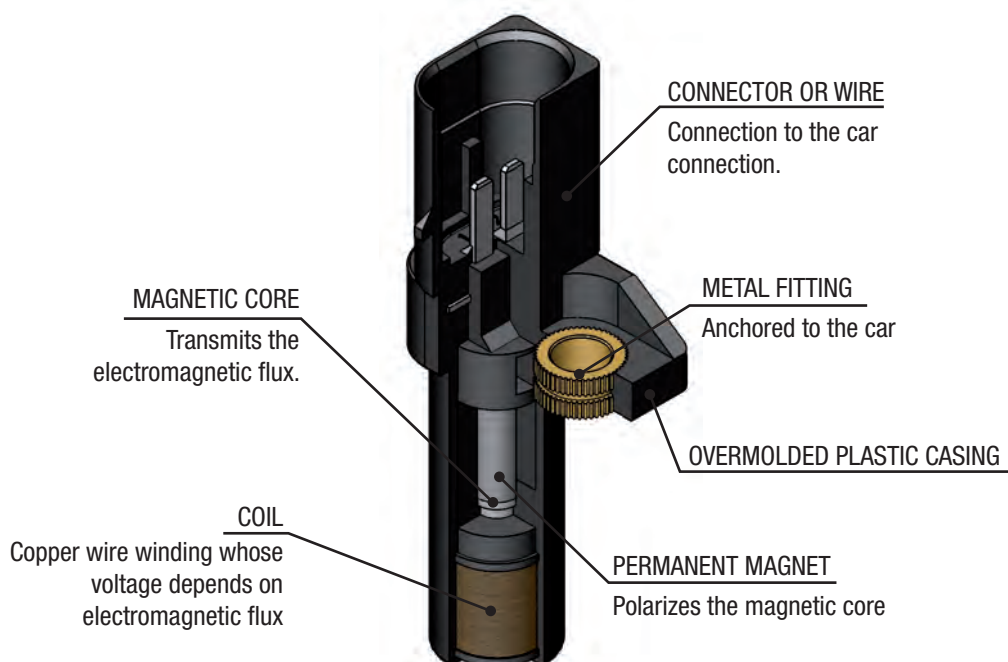
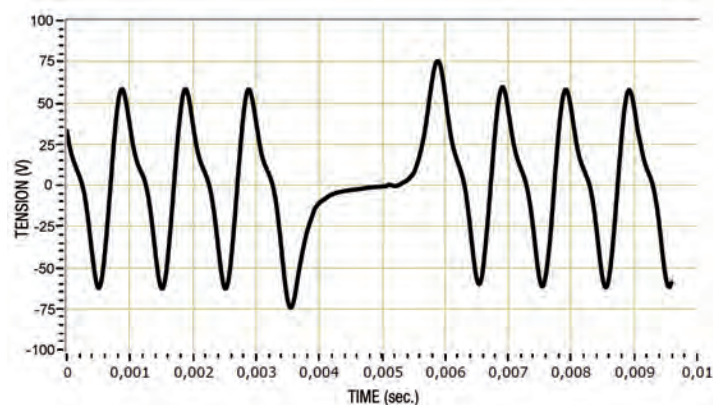
This type of sensors, also known as timing and revolution sensors, are divided by FAE into 2 groups:

1-Variable reluctance sensors

2-Hall effect sensors

1- Variable reluctance sensors:

The sensor consists of a pickup coil, a magnetic core and a permanent magnet and is mounted in front of a gear wheel. As the teeth of the gear wheel (or other target features) pass by the face of the magnet, the amount of magnetic flux passing through the magnet and consequently the coil varies. When the gear tooth is close to the sensor, the flux is at a maximum. When the tooth is further away, the flux drops off. The moving target results in a time-varying flux that induces a proportional voltage in the coil which varies in function of the speed rotation and the distance to the gap in both frequency and amplitude. These variations cause the signal we receive as follows:



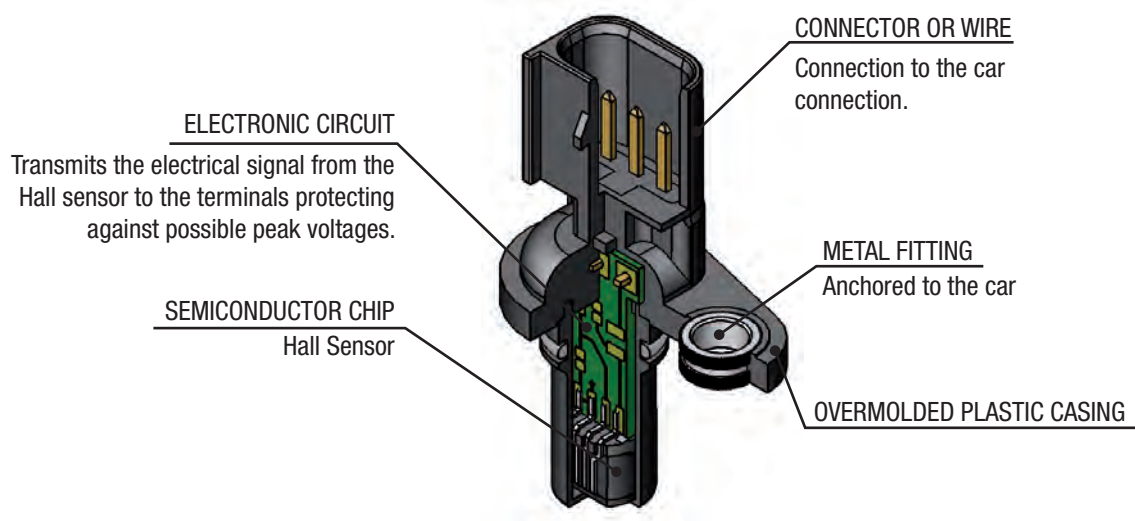
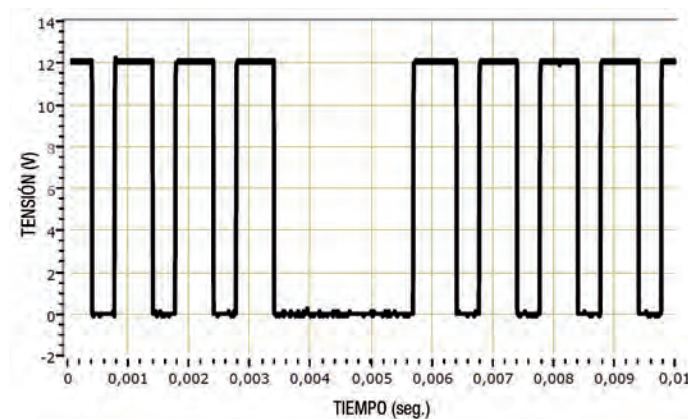


TECHNICAL INFORMATION

2-Hall Effect Sensors

The sensor consists of a semiconductor sensor combined with an electronic circuit that protects the sensor from possible voltage peaks and a permanent magnet. The operating principle is based on the so-called Hall Effect, the production of a voltage difference (the Hall voltage) across an electrical conductor, transverse to an electric current in the conductor and a magnetic field perpendicular to the current.

The response we get from the sensor is a U wave which is proportional to the variations detected by the sensor. These variations cause the signal we receive as follows:



ASSEMBLING INSTRUCTIONS

Replace the gasket each time the sensor is changed. The gaskets do not perform their sealing function if these are used or worn.

VISUAL ASPECTS AND CAUSES OF FAILURE OF SENSORS

The good condition of the metal body, the connector and wires must be checked and ensured.

Also verify if the sensor shows any cracks, dents or impacts that might have damaged it.

Keep in mind that, as a general rule, visual inspection is not sufficient to ensure the good or bad performance of the part, but it helps to make an initial diagnosis.

1-Cracks or breaks. Tensions provoked by mechanical stress.

2-Deformations and dents. Overheated sensor.

3-No signal. Failure of the wire due to friction or excessive vibration, short circuits, internal failure of the sensor due to mechanical or thermal stress.

SIGNS OF FAILURE OF SENSORS

- Not starting of the engine.
- Power loss.
- Not working of the speed gauge
- Warning light Engine Check is switched on.
- Pulse failures of the injection.
- Difficulties to start the engine.
- Increase of fuel consumption.
- Increase of emission levels.

MAINTENANCE

The specific values of the sensors must be checked each maintenance or every 25000km. Replace the sensor whenever results are diagnosed which are not within the specified operating limits.



INFORMATION TECHNIQUE

CAPTEURS D'IMPULSIONS:

Les capteurs de vitesse, de point mort haut (villebrequin ou volant moteur) ou de position d'arbre à came sont placés en général sur une roue dentée (ou une roue phonique) ou sur des disques avec des fenêtres sectorisées ou des anneaux ferromagnétiques. Ces capteurs détectent les variations de flux magnétique produites par les dents de la roue dentée. Les valeurs produites sont converties en signal électrique et sont envoyées à l'unité de contrôle du moteur qui valide suivant le type du capteur les aspects suivants:

- Capteur PMH (villebrequin ou volant moteur):

Sa mission est de vérifier la position du point mort haut (PMH). L'unité de contrôle du moteur utilise l'information remontée par ce capteur pour calculer le moment de l'injection de carburant.

- Capteur de position d'Arbre de Came:

Ce capteur contrôle la séquence d'injection et la synchronisation de l'étincelle d'allumage.

- Capteur de vitesse de rotation:

Sa mission est de contrôler la vitesse de rotation du moteur ainsi que les seuils de changement de rapport de la boîte de vitesse.

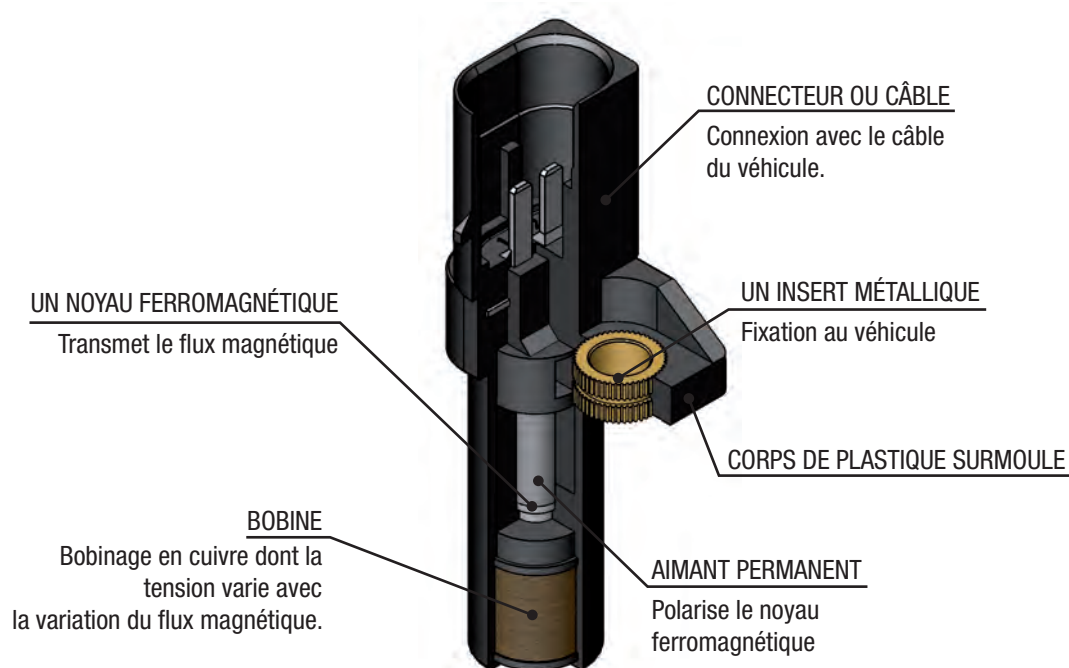
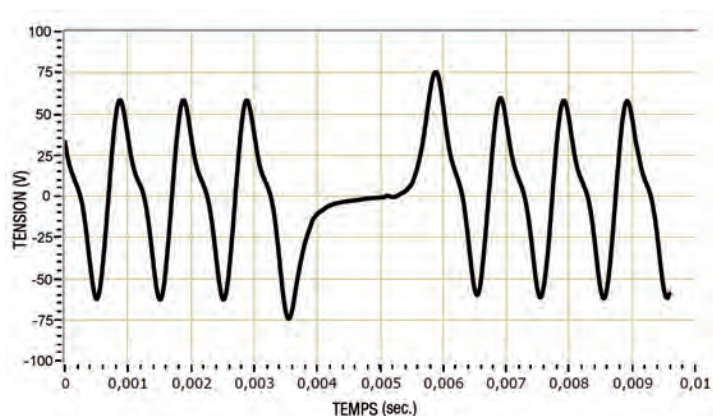
Ces différents types de capteurs, aussi connus comme capteurs d'impulsions, FAE les regroupe en 2 catégories:

1 - Capteurs Inductifs (VRS)

2 - Capteurs à Effet Hall

1- Capteurs Inductifs:

Ils se composent d'un bobinage monté sur un noyau métallique et d'un aimant permanent. Le capteur est monté face à la roue dentée (ou phonique). Le flux magnétique qui se produit entre les dents (ou les vallées) de la roue, induit une tension sinusoïdale de sortie qui est proportionnelle à la variation de vitesse détectée par le capteur. Donc la tension varie en fonction de la vitesse de rotation du moteur et de la distance du capteur à la roue dentée aussi bien en fréquence qu'en amplitude. Ces variations induisent le type de signal suivant:



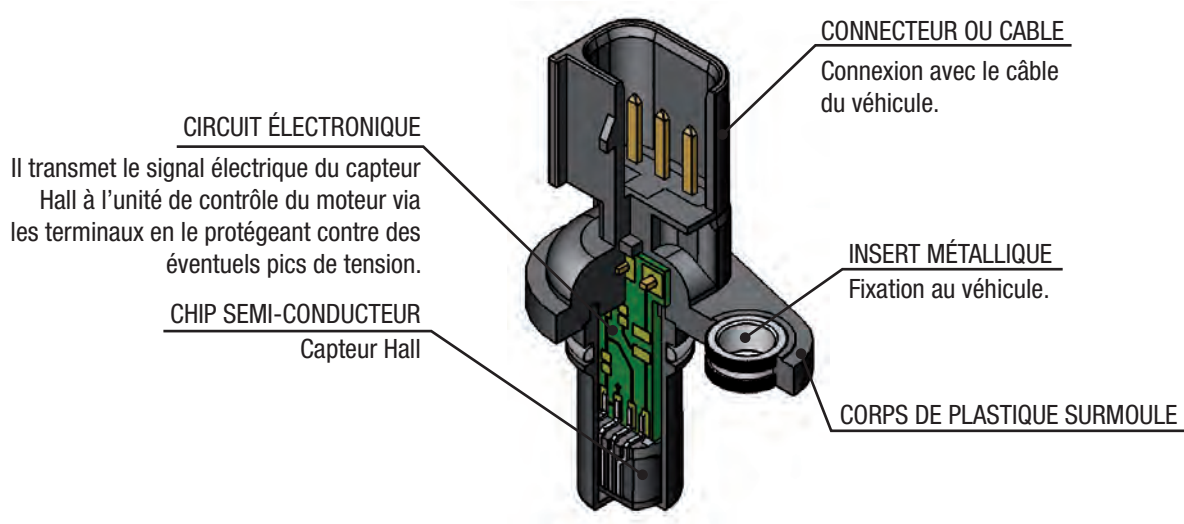
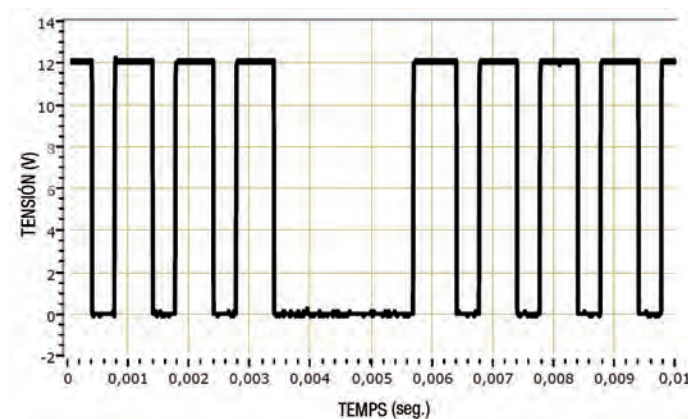


INFORMATION TECHNIQUE

2 - Capteurs à effet Hall

Ils se composent d'une cellule semi-conductrice couplée à un circuit électronique (qui protège le capteur d'éventuels pics de tension) et d'un aimant permanent. Le principe de fonctionnement est basé sur l'effet dénommé Hall, c'est à dire, un courant électrique traversant un conducteur baignant dans un champ magnétique engendre une tension perpendiculaire à ceux-ci.

La réponse que nous obtenons du capteur est un signal carré de sortie qui est proportionnel aux variations que le capteur détecte. Ces variations induisent un signal du type suivant :



INSTRUCTIONS DE MONTAGE

Remplacer le joint d'étanchéité à chaque changement du capteur. En effet des joints usés ou dégradés n'assurent plus leur fonction d'étanchéité.

ASPECTS VISUELS ET CAUSES DE DEFAILLANCE DES CAPTEURS

Vérifier le corps extérieur, le connecteur et les câbles en s'assurant de leur bon état.

Vérifier également que le capteur ne présente aucune crevasse ou défaut apparent.

A savoir toutefois qu'une inspection visuelle n'est pas suffisante pour s'assurer du bon ou mauvais fonctionnement de la pièce mais permet de réaliser un premier diagnostic.

1- Fissure ou coupure: Tensions provoquées par un stress mécanique.

2- Déformations et bosselures: Surchauffe du capteur.

3- Pas de signal: Rupture du câble par friction ou excès de vibration, courts-circuits, ruptures internes du capteur par un stress mécanique ou thermique.

SYMPTÔMES DE DEFAILLANCE DES CAPTEURS

- Le moteur ne démarre pas.
- Une perte de puissance.
- Le compteur de vitesse ne fonctionne pas.
- Déclenchement du témoin lumineux "défaut moteur".
- Des trous à l'accélération.
- Difficultés au démarrage du véhicule.
- Augmentation de la consommation de carburant.
- Augmentation du niveau de pollution.

MAINTENANCE DES CAPTEURS

Contrôler à chaque révision ou tous les 25000Km les valeurs spécifiques des capteurs. Remplacer quand les données de fonctionnement ne sont pas conformes les valeurs spécifiées.



REF. FAE

COLOR / COLOUR / COULEUR

FABRICANTE

Años

MAKER

Model

Year

CONSTRUCTEUR

Modèle

Année



Reemplaza/Suitable/Remplace:
Cruce de Referencias.
Cross References
Tableau des equivalences

LONGITUD
LENGHT
LONGEUR

LONGITUD
LENGHT
LONGEUR

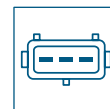
RESISTENCIA
RESISTANCE
RESISTANCE

CONEXIÓN
CONNECTION
CONNEXION

SIMBOLOS - SYMBOLS - SYMBOLES



Sensores de revoluciones y de posición del cigüeñal y árbol de levas
Revolution and timing sensors. (CKP & CMP)
Capteurs du regime et des positions du vilebrequin et de l'arbre à cammes.



Tipo de conexión
Type of connection
Type de connexion

L

Longitud del cable en mm.
Lenght of cable in mm.
Longeur du cable en mm.

L1

Longitud del sensor en mm.
Lenght of sensor in mm.
Longeur du capteur en mm.

ohm

Resistencia entre los terminales
Resistance between the terminals
Resistance entre les connexions

Hall
Effect

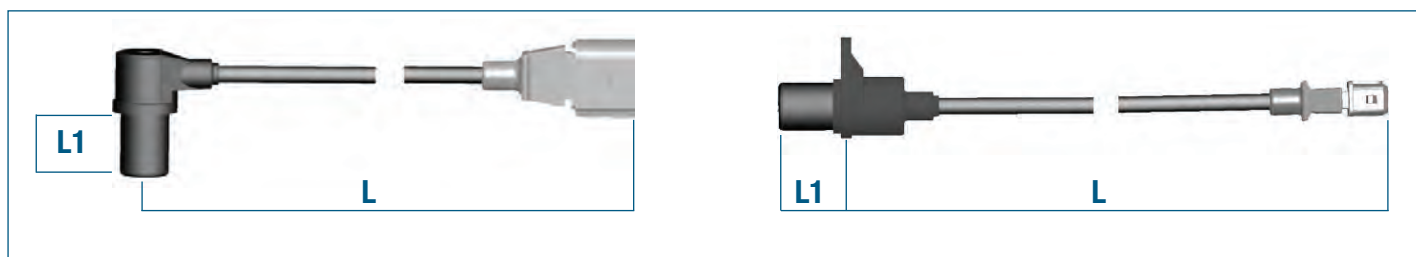
Resistencia Efecto Hall
Hall effect Resistance
Resistance effecte Hall

LONGITUDES / LENGHT / LONGEURS

Longitud en mm. del cable y del sensor medido de la forma ilustrada:

Length in mm. of cable & of sensor measured as shown:

Longeur en mm. du cable et du capteur mesuré comme suit:



Los modelos de vehículos se dan como información general. No se deben utilizar como guía detallada de aplicaciones.

Vehicles models for general information only. Not to be used as a detailed applications guide.

Les modèles de véhicules sont présentés à titre d'information générale uniquement. Le document ne constitue pas un guide pratique et ne doit pas être utilisé comme tel.

Para identificar una Captador de Impulsos de un modelo específico, consultar Aplicaciones por Vehículos. Las piezas contenidas en este Catálogo, pueden estar sujetas a modificaciones dimensionales o de material, sin previo aviso. Todas las unidades de medida expresadas en este Catálogo son en milímetros. Los pares de apriete están en Newton por metro. La Resistencia entre los terminales está en ohm.

Refer to Vehicle Applications to trace the Revolution and timing sensors of a specific model. The parts shown in this Catalogue, are subject to modification in design or material without notice.

All measurement units started on this Catalogue are in millimeters. Torques are in Newton by meter. Resistance between terminals are in ohm.

Pour trouver un modele spécifique d'un capteur du regime et des positions, consulter les Applications par Vehicules. Les pièces contenues dans ce Catalogue, peuvent être modifiées en matériel ou exécution sans préavis. Toutes les unités de mesure indiquées sur ce Catalogue sont en millimètres. La couple de serrage sont en Newton par metre. La resistance entre les connexions sont en ohm.



79001

ALFA ROMEO		FIAT		LANCIA	
33 1.4 ie	1991-94	Croma	1986-96	Prisma 1.6, 1.6 ie	1986-92
164 2.0 Turbo	1988-92	Ducato 2.5 TDI	1994-02	Prisma 2.0 ie 4WD	1986-89
164 2.0 V6 Turbo	1991-92	Ducato 2.8 JTD	1998-02	Thema 2000 16V Turbo	1988-90
164 2.5 TD	1987-92	Regata 85 1.5	1985-87	Thema 2000 ie, SW	1987-92
CITROEN		Ritmo II 75 1.5	1985-88	Thema 2000 ie 16V, SW	1988-92
Jumper 2.8 HDI, 4x4	2000-02	Tempra 1.9 D, TD, TDE	1991-96	Thema 2000 ie 16V Turbo	1989-92
		Tipo 1.7 D	1988-94	Thema 2000 ie Turbo	1988-90
		Tipo 1.9 D, TD	1991-96	Thema 8.32	1987-92
		Uno 1.3 Turbo ie	1985-91	PEUGEOT	
		Uno 1.4 Turbo ie	1989-96	Boxer 2.8 HDI	2000-02
		Uno 1.9 D	1989-94		

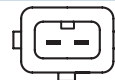


Reemplaza / Suitable:
Alfa Romeo 60512971
60572239
5944390
Fiat 7604582
1920.FA
PSA

L
450

L1
30

ohm
700



79002

ALFA ROMEO		FIAT Cont.		LANCIA	
33 1.8 TD	1986-94	Fiorino 1.5, 75 1.5	1988-93	Delta 1.5	1979-92
75 2.0 TD	1985-92	Regata 1.6, 100 1.6 Super	1984-90	Delta 1.6 GT ie	1986-92
75 2.4 TD	1989-92	Ritmo II 100 1.6	1983-87	Delta 1.6 HF Turbo	1986-89
164 2.0 Turbo	1988-98	Uno 1.0 ie	1989-94	Delta 2.0 16V HF	1989-94
FIAT		Uno 1.3 Turbo ie	1985-91	Delta 2.0 HF Integrale	1987-92
Argenta 2000 ie	1981-86	Uno 70 1.3i SX	1983-89	Prisma 1.5, 1.6	1986-92
Cinquecento 0.7, 0.7 i	1992-98	Uno 75 ie 1.5	1985-93	Prisma 1.6 ie, 2.0 ie	1986-89
Croma 1600	1986-90	Uno 1.5 ie	1992-94	Thema 2.0 ie 8V	1992-94
Croma 2000 CHT	1985-92	INNOCENTI		Thema 2000 ie	1986-92
Croma 2000 ie	1987-96	Elba 1.5 ie	1992-94	Y10 1.3 ie Fire	1988-95
Croma 2000 ie Turbo	1987-94	FORD		RENAULT	
Elba 1.5 ie	1992-96	Escort VI	1992-95	Master 2.5 TD	1989-98

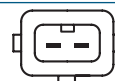


Reemplaza / Suitable:
Alfa Romeo 60523246
60800100
Fiat 4460206
7547714
Ford 1639282
Renault 50 00 288 407

L
460

L1
20,7

ohm
700



79003

FIAT	
Cinquecento 0.9 ie	1991-93
Cinquecento 0.9 ie S	1991-98
Panda 900	1992-96
Panda 900 ie	1998 ->
Seicento 0.9	1998 ->
Seicento Van 0.9	1998 ->



Reemplaza / Suitable:
Fiat 7735697
7589729

L
450

L1
20,7

ohm
700



79004

VOLVO		VOLVO Cont.	
240 2.0i	1988-92	940 2.3i	1990-96
240 2.3i	1988-92	940 2.3i Turbo	1990-96
740 2.0i	1984-90	960 2.0i	1990-96
740 2.3i	1984-90	960 2.3i	1990-96
740 2.3i Turbo	1984-90	960 2.3i Turbo	1990-96
760 2.3i Turbo	1982-89		
940 2.0i	1990-96		
940 2.0i 16V	1990-96		
940 2.0i Turbo	1992-96		



Reemplaza / Suitable:
Volvo 1389399-5
3547847-8

L
530

L1
24

ohm
170



79005

FIAT		LANCIA	
Brava 80 1.2 16V	1998-01	Y 1.1i	1995-03
Bravo 1.2 SX	1998-01	Y 1.2i	1997-03
Doblo 1.2 ie	2000 ->	Y 1.2i 16V	1996-03
Marea 80 1.2i 16V	1999 ->	Ypsilon 1.2	2003 ->
Palio 75 1.2i, Weekend	1997 ->		
Punto 55 1.1i	1993-96		
Punto 60 1.2i, SX	1993-96		
Punto 75 1.2i	1993-96		
Punto 1.2i, Cabrio	1999-00		
Siena 1.2, 1.0	1998 ->		
Strada 1.2i	1999 ->		

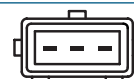


Reemplaza / Suitable:
Fiat 46774532
46802751
55187333
55189517
55189518
7777960
7787256
7798691

L
615

L1
34,5

ohm
1100



79006

FIAT		LANCIA	
Brava 1.6 16V, 100	1995-02	Dedra 1.6 16V	1996-99
Bravo 1.6 16V	1996-02	Dedra SW 1.6 16V	1996-99
Doblo 1.6 16V, Cargo	2001 ->	Delta II 1.6 ie	1996-99
Marea 1.6 16V, 100	1996 ->	Delta II 1.6i 16V	1996-99
Marea Weekend 1.6 16V	2000 ->	Lybra 1.6 16V	1999 ->
Multipla 1.6 16V, Bipower	1999 ->	Lybra SW 1.6 16V	1999 ->
Palio 1.6 16V, 100	1996 ->		
Palio Weekend 1.6 16V	1996-01		
Siena 1.6 16V	1999 ->		
Stilo 1.6 16V	2001 ->		
Stilo Multi Wagon 1.6 16V	2003 ->		

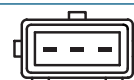


Reemplaza / Suitable:
Fiat 46442091
46479975
55189515

L
720

L1
34,5

ohm
1100





79007

CITROEN		FIAT		PEUGEOT	
Jumper 2.8 HDI	2000 ->	Ducato 10 2.8 D	1998-02	Boxer 2.8	2000 ->
Jumper 2.8 HDI 4x4	2000 ->	Ducato 14 2.8 D	1998-02		
		Ducato 18 2.8 D	1998-02		
		Ducato 2.8 JTD	2000-02		
		Ducato 2.8 JTD 4x4	2000-02		



Reemplaza / Suitable:
PSA 1920.EW
Fiat 46538536
 55189519

L
510

L1
34,5

ohm
1100



79008

Aislante negro / Black colour

AUDI		SEAT		VOLKSWAGEN Cont.	
80, 90, 100	1987-96	Alhambra	1996 ->	Golf III, IV	1991-02
A2, A3, A4, A6	1995 ->	Cordoba	1993-02	Lupo	1999-05
Cabriolet, Coupe	1991-00	Ibiza	1993-02	New Beetle	1998 ->
FIAT		Leon	1999-06	Passat	1988-02
Tempra	1990-96	Toledo	1991-00	Polo	1995-01
Tipo	1990-95	SKODA		Sharan	1995 ->
FORD		Felicia	1998-01	Transporter	1990-03
Galaxy	1989-06	Ocatvia	1996 ->		
LANCIA		VOLKSWAGEN			
Dedra	1989-99	Bora	1998-05		
		Caddy	1995-00		
		Corrado	1993-95		

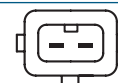


Reemplaza / Suitable:
Fiat 9944264
Ford 1006990
Audi-VW 95VW-7F293-AA
 095 927 321
 095 927 321 A
 095 927 321 C

L

L1
30,5

ohm
800



79009

AUDI		SKODA		VOLKSWAGEN	
A3 1.6, 1.8, 1.8 T	1996 ->	Octavia 1.6	1997 ->	Bora 1.6, 1.8, 1.8 T	1999-05
A3 1.9 TDI	1996-01	Octavia 1.8, 1.8 T	1997 ->	Bora 2.0, 2.3 V5	1999-05
Ch. 8L-X-090001 ->		Octavia 1.9 TDI	1997 ->	Bora 1.9 TDI	1999-01
SEAT		Octavia Combi	1998 ->	Golf IV 1.6, 1.8, 1.8 T	1998-05
Leon 1.6	2000-06	Ch. 1U-X-228001 ->		Golf IV 2.0, 2.3 V5	1998-05
Leon 1.8 20V	2000-06			Golf IV 1.9 TDI	1997-01
Toledo II 1.6	1999-00			New Beetle 1.6, 1.8T	2000 ->
Toledo II 1.8 20V	1999-06			New Beetle 1.9 TDI	1998 ->
Ch. 1M-Y-000001 ->				New Beetle 2.0, Cabrio	1998 ->



Reemplaza / Suitable:
Seat-VW 095 927 321 B

L

L1
30,5

ohm
850



79010

AUDI		AUDI Cont.		VOLKSWAGEN	
80 Avant 1.6 E	1993-96	A6 1.8 T quattro	1997-05	Passat 1.6	1996-00
A4 1.6	1995-00	A6 Avant 1.8 T	1997-05	Passat 1.8	1996-00
A4 1.8	1995-00	A6 Avant 1.8 T quattro	1997-05	Passat 1.8 T	1996-00
A4 1.8 quattro	1995-00	Cabriolet 1.8	1997-00	Passat Variant 1.6	1997-00
A4 1.8 T	1995-00			Passat Variant 1.8	1997-00
A4 1.8 T quattro	1995-00			Passat Variant 1.8 T	1997-00
A4 Avant 1.6	1996-00				
A4 Avant 1.8	1996-01				
A4 Avant 1.8 quattro	1996-01				
A4 Avant 1.8 T	1996-01				
A4 Avant 1.8 T quattro	1996-01				
A6 1.8 T	1997-05				



Reemplaza / Suitable:
Volkswagen 050 906 433

L
580

L1
24

ohm
500



79012

FIAT		LANCIA		SEAT	
Cinquecento 0.9	1991-93	Thema 2000 16V Turbo	1988-90	Marbella 0.9	1997-98
Cinquecento 0.9 i.e. S	1991-99	Thema 2000 i.e. 16V	1988-92	Marbella 0.9 KAT	1996-98
Ducato Bus 1.9 TD	1994-02	Thema 2000 i.e. 16V Turbo	1989-92		
Ducato Furgón 1.9 TD CAT	1994-02	Thema SW 2000 i.e. 16V	1988-93		
Ducato Chasis 1.9 TD CAT	1994-02				
Uno 1.4 Turbo i.e.	1989-96				
Uno 70 i.e. 1.4	1989-93				

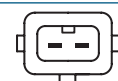


Reemplaza / Suitable:
Fiat 7679221
 7694335
Seat SE-028947500A

L
450

L1
20,7

ohm
700



79014

ALFA ROMEO		FIAT		LACIA	
145 1.9 JTD	1999-01	Fiorino 1.7 D	1988-99	Dedra	1994-99
145 1.9 TD	1994-99	Fiorino 60 1.7 D	1988-96		
146 1.9 JTD	1999-01	Palio Weekend 1.7 TD	1996-01		
146 1.9 TD	1995-99	Punto 1.7 D	1994-97		
155 1.9 TD (AR33601)	1996-97	Punto 1.7 TD	1994-99		
155 1.9 TD (AR67501)	1993-97	Punto 60 TD 1.7	1996-99		
		Punto Van 1.7 D, 1.7 TD	1996-00		
		Strada 1.7 TD	1999 ->		



Reemplaza / Suitable:
Alfa Romeo 60808895
Fiat 7656271

L
320

L1
30

ohm
700





79015

ALFA ROMEO	FIAT	LANCIA
145 1.4 ie	1994-96	1993-96
146 1.4 ie	1994-96	1993-96
	Tempra 1.8 ie	Dedra 1.8 ie
	Tempra SW 1.8 ie	Dedra SW 1.8 ie
	Tipo 1.8 ie	Delta II 1.8 ie
		1993-95
		1994-99
		1994-99
		1993-99

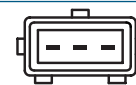


Reemplaza / Suitable:
Alfa Romeo 60810103
Fiat 7733001

L
470

L1
30

ohm
700



79016

ALFA ROMEO	FIAT	LANCIA
155 2.0 16V Turbo Q4	1992-97	1989-99
	Coupe 2.0 16V	Dedra 1.8 ie
	Coupe 2.0 16V Turbo	Dedra 2.0 16V
	Croma 1900 Turbo D id	Dedra 2.0 HF Integrale
	Croma 2500 TD, TDE	Dedra 2.0 ie
	Tempra 1.8 ie, SW	Dedra 2.0 ie Turbo
	Tempra 2.0 ie, SW	Dedra 2.0 ie Turbo Integrale
	Tipo 1.8 ie	Delta II 2.0 16V
	Tipo 1.8 ie 16V Sport	Delta II 2.0 16V Turbo
	Tipo 2.0 ie	1993-99
	Tipo 2.0 ie 16V Sport	1993-95
		1993-99

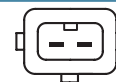


Reemplaza / Suitable:
Alfa Romeo 60806494
Fiat 7741311
7547235

L
470

L1
30

ohm
700



79018

FIAT	FIAT Cont.	INNOCENTI
Fiorino Furgón 70 i.e. 1.4	1994-01	Elba 1.4 i.e.
Fiorino Furgón 75 i.e. 1.6	1993-01	Elba 1.6 i.e.
Fiorino Pick up 1.6	1994-01	1994-96
Fiorino 1.6	1990-93	1994-96
Fiorino 1.4 i.e.	1992-96	1989-94
Fiorino 1.6 i.e.	1990-96	1994-99
Fiorino S.W. 1.6	1990-93	
Fiorino S.W. 1.4 i.e.	1992-96	
Fiorino S.W. 1.6 i.e.	1990-96	
Tipo 1.4	1987-89	
Tipo 1.4 i.e.	1989-95	
Tipo 1.6	1988-91	

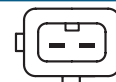


Reemplaza / Suitable:
Fiat 7564592

L
460

L1
13,5

ohm
800



79019

VOLVO
S40 1.6 105 cv.
S40 1.6 109 cv.
S40 1.8 115 cv.
S40 1.8 122 cv.
S40 2.0 140 cv.
V40 1.6 105 cv.
V40 1.6 109 cv.
V40 1.8 115 cv.
V40 1.8 122 cv.
V40 2.0 140 cv.
1995-99
1999-03
1995-99
1999-03
1995-99
1995-99
1999-04
1995-99
1999-04
1995-99

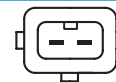


Reemplaza / Suitable:
Volvo 30816491-2

L
850

L1
21

ohm
240



79020

VOLVO
440 1.6
440 1.7, 1.7 Turbo
440 1.8
440 2.0
460 1.6, 1.7
460 1.8
460 2.0
480 1.7
480 1.7 Turbo
480 2.0
1988-96
1988-96
1991-96
1992-96
1989-96
1991-96
1992-96
1986-96
1987-96
1992-95



Reemplaza / Suitable:
Volvo 3436119
3436119-6

L
250

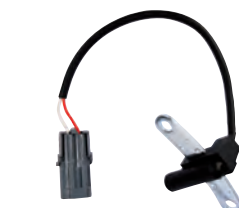
L1
24

ohm
240



79021

RENAULT	RENAULT Cont.
Clio 1.2i	1991-98
Clio 1.4i	1990-98
Clio 1.8i	1991-98
Clio 1.8i 16V	1991-93
Clio 1.9 D	1991-98
Espace 2.0i	1996-00
Express 1.4	1985-92
Laguna 1.8i, Break, Estate	1994-01
Laguna 2.0i	1994-01
Megane 1.4i, Classic	1996-99
Megane 1.6i, Classic	1996-99
Megane Break 1.6i	1998-99
Megane Scénic 1.4	1997-99
Megane Scénic 1.6	1997-99
Megane Scénic 2.0	1997-99
R-19 1.2i	1990-95
R-19 1.4i	1990-95
R-19 1.8i, Cabrio, Chamade	1992-95
Scenic 1.4i	1996-99
Scenic 1.6i	1996-99
Twingo 1.2i	1993-98



Reemplaza / Suitable:
Renault 77 00 855 719
77 00 747 548

L
290

L1
24

ohm
240





79022

RENAULT	
R-19 1.7, Cabrio, Chamade	1988-92
R-19 II 1.8, Chamade	1992-95
R-21	1986-94
Clio I 1.8	1994-98
Espace III 2.0	1994-01
Laguna 2.0, Grandtour	1993-01
Megane 1.6e	1996-99
Megane Classic 1.6e	1996-99
Megane Coupe 1.6e	1996-97
Megane Scenic 1.6e	1997-99
Megane I Grandtour 1.6	1999 ->
Scenic 1.6e	1999 ->

Modelos con cambio Automático.
 Models with automatic gear or Automatic Transmission.
 Modèles avec boîte vitesse automatique.



Reemplaza / Suitable:
Renault 7700 747 549
 7700 850 589

L
280

L1
24

ohm
240



79023

RENAULT	
R-21 2.0 Mot. F337306->	1986-88
R-25 2.8 V6 Injection	1987-92
Espace II 2.2, 4x4	1991-96
Espace II 2.8 V6	1991-96
Megane I 2.0i	1996 ->
Megane Cabriolet 2.0i	1999 ->
Megane Classic 2.0i	1996 ->
Megane Coach 2.0i	1996-03
Megane Scenic 2.0i	1997-99

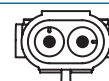


Reemplaza / Suitable:
Renault 7700 742 634
 7700 742 635

L
540

L1
24

ohm
240



79024

RENAULT		RENAULT Cont.		RENAULT Cont.	
Espace II	1991-96	R-19 I	1988-92	Safrane I	1992-96
Espace II 2.2, 4x4	1991-96	R-19 II	1992-96	Safrane 2.2i	1992-96
Espace III	1996-98	R-19 1.8 16V	1989-92	Safrane II	1996-00
Express 1.4i	1985-95	R-21	1986-94	Scenic 1.9 DT	1997-99
Laguna 2.0i 16V	1995-01	R-21 2.0, 4x4	1989-93	Scenic 2.0i	1996-00
Laguna	1993-01	R-21 2.2, 4x4	1990-94	Super 5 1.4 Cat.	1985-96
Megane Classic, Coach	1996-99	R-25 2.0	1987-92	Super 5 1.4 Turbo	1984-90
Megane	1996 ->	R-25 2.2	1986-92	Super 5 1.7	1986-95
Megane 2.0i	1996-02	R-25	1984-93		
Megane Scénic	1997-99				

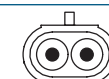


Reemplaza / Suitable:
Renault 7700 728 637
 7700 728 638
 7700 739 794

L
520

L1
24

ohm
240



79025

RENAULT	
Fuego 1.6 (USA)	1982-86
Rapid 1.4 Cat.	1988-98
R-11 1.4	1983-88
R-11 1.7	1983-87
R-18 1.4	1978-86
R-18 1.6 TS	1982-86
R-18 2.0	1982-86
R-25 2.0	1984-92
Super 5 1.4 Cat.	1985-96

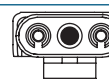


Reemplaza / Suitable:
Renault 7700 722 143
 7700 739 789
 7701 349 559

L
840

L1
24

ohm
240



79026

RENAULT		RENAULT Cont.	VOLVO		
Clio 1.2	1990-98	R-19 1.2, Van	1988-92	340 1.7	1985-91
Clio 1.4	1991-98	R-19 1.4, Chamade, Van	1988-92	360 1.7	1985-91
Clio 1.7	1991-93	R-19 1.7, Chamade	1988-92		
Espace 2.0	1988-90	R-21 1.7, Break	1989-93		
Express 1.2	1985-95	R-21	1986-94		
Express 1.4	1985-98	R-21 Break 1.6	1987-94		
Megane 2.0i	1997-99	R-25 2.0	1984-93		
Rapid 1.2	1991-96	Super 5 1.2	1987-90		
Rapid 1.4	1991-96	Super 5 1.4	1984-89		
R-9 1.7	1984-88	Super 5 1.4 Turbo	1985-90		
R-11	1986-88	Super 5 1.7	1986-95		
R-18	1982-86	Trafic 1.7	1989-94		



Reemplaza / Suitable:
Renault 7700 720 341
 7700 725 811
 7700 728 639
 7700 732 300
 7700 739 792
 3209826-1
Volvo

L
950

L1
24

ohm
240



79027

RENAULT	RENAULT Cont.
Clio II 1.4 16V	1999-00
Clio II 1.6	1998-05
Espace III 2.0 16V	1998-02
Kangoo 1.6 16V	2001 ->
Laguna 1.8 16V	2001 ->
Megane Cabriolet	1999 ->
Megane Classic, Coach	1996 ->
Megane 1.4i	1999-00
Megane 1.4i 16V	1996-99
Megane 1.6e	1996-99
Megane 1.6i	1997-01
Megane 1.6i 16V	2000 ->
Megane 1.8i 16V	1999-02
Megane 2.0i	1997 ->
Megane 2.0i 16V	1999 ->
Scenic 1.6i 16V	1999-03
Scenic 2.0i	1998 ->
Scenic 2.0i 16V	2001-03
Safrane 3.0	1992-96



Reemplaza / Suitable:
Renault 7700 108 073
 7700 108 081

L

L1
24

ohm
250





79028

NISSAN		RENAULT Cont.		RENAULT Cont.	
Kubistar 1.6 16V	2003 ->	Kangoo Express	2001 ->	Megane I 2.0 16V	1999-02
OPEL		Laguna 1.6 16V	2001-01	Megane II 1.4 16V	2003 ->
Arena 1.9 D	1998-01	Laguna 1.8 16V	1998-01	Megane II 1.6 16V	2003 ->
RENAULT		Laguna 2.0 16V	1999-01	Scenic 1.4i	1999 ->
Clio II 1.4 16V	1999 ->	Megane Cabriolet	1996 ->	Scenic 1.6i 16V	1999 ->
Clio II 1.6	2000 ->	Megane Classic, Coach	1996 ->	Scenic 1.9 D	1997-99
Clio II 1.6 16V	1999 ->	Megane I 1.4i, 1.4 16v	1996-02	Scenic 2.0i 16V	2000 ->
Clio II 1.9 D	1998-00	Megane I 1.6e	1996-99	Thalia 1.4	2000 ->
Clio II 2.0 16V	2001 ->	Megane I 1.6i	1997-02	Trafic 1.9 D	1997-01
Espace III 2.0 16V	1999-02	Megane I 1.6i 16V	1997-02		
Kangoo 1.6, 4x4	2000 ->	Megane I 1.8 16V	2000-02		
Kangoo 1.6 16V, 4x4	2001 ->	Megane I 2.0i	1997-99		



Reemplaza / Suitable:
G.M. 09110560
Nissan 01436-00QAB
Opel 4402560
Renault 7700 101 970
7700 103 069A
82 00 468 645

L

L1

24

ohm

250



79029

DACIA		RENAULT Cont.		RENAULT Cont.	
Logan 1.4	2004 ->	Kangoo 1.0	1998 ->	Scenic 1.6 e	1996-99
Logan 1.6	2004 ->	Kangoo 1.2	1998 ->	Scenic 1.6i	1997-99
NISSAN		Kangoo 1.2 16V	2001 ->	Twingo 1.0	2000 ->
Kubistar 1.2 16V	2003 ->	Kangoo 1.4	1998 ->	Twingo 1.0 16V	2001 ->
Kubistar 1.4	2003 ->	Kangoo 1.6	1999 ->	Twingo 1.2	1996-00
RENAULT		Kangoo Express	1998 ->	Twingo 1.2 16V	2001 ->
Clio I 1.2	1996-98	Megane Cabrio 1.6e	1996-99		
Clio I 1.4	1991-98	Megane Classic, Coach	1996-99		
Clio II 1.0	1999 ->	Megane I 1.4 e	1996-99		
Clio II 1.2	1998 ->	Megane I 1.6 e	1996-99		
Clio II 1.4	1998 ->	Megane I 1.6i	1996-99		
Clio II 1.6	1999 ->	Scenic 1.4i	1996-99		



Reemplaza / Suitable:
Nissan 23798-00QAC
Renault 7700 101 969
7700 875 184B
8200 396 919
82 00 436 025

L

L1

24

ohm

250



79030

NISSAN		RENAULT	
Kubistar 1.4	2003 ->	Clio II 1.4	1999 ->
		Clio II 1.6	1998-05
		Kangoo 1.4	1998 ->
		Kangoo Express 1.4	1998 ->
		Megane Classic 1.6e	1996-99
		Megane Coach 1.6e	1996-99
		Megane I 1.6e	1996-99
		Scenic 1.6e	1997-99



Reemplaza / Suitable:
Nissan 23750-00QAE
Renault 7700 101 971
7700 273 419A

L

L1

24

ohm

250



79031

NISSAN		RENAULT		RENAULT Cont.	
Almera II 1.5 dci	2003 ->	Clio II 1.5 dCi 65 cv.	2001 ->	Megane I 1.9 dCi 102 cv.	2001 ->
Kubistar 1.5 dci 65 cv.	2003 ->	Clio II 1.5 dCi 82 cv.	2001 ->	Megane I 1.9 dTi 80 cv.	2001 ->
Kubistar 1.5 dci 82 cv.	2003 ->	Clio II Van 1.5 dCi	2001 ->	Megane I 1.9 dTi 98 cv.	1997-01
Micra 1.5 dci 65 cv.	2003 ->	Clio II 1.9 dTi 80 cv.	2000 ->	Megane Classic 1.9 dCi	2001 ->
Micra 1.5 dci 65 cv.	2003 ->	Espace III 1.9 dTi	1999 ->	Megane Classic 1.9 dTi	1997 ->
		Kangoo 1.5 dCi 65 cv.	2001 ->	Megane Coach 1.9 dCi	2001 ->
		Kangoo 1.5 dCi 82 cv.	2002 ->	Megane Coach 1.9 dTi	1997-01
		Kangoo 1.9 dTi, Express	2000 ->	Megane Grandtour 1.9 dCi	2001 ->
		Laguna 1.9 dTi, Grandtour	1997-01	Megane Grandtour 1.9 dTi	1999 ->
				Megane Scenic 1.9 dTi 98	1997-99
				Scenic 1.9 dCi, RX4. 102 cv.	2000-03
				Scenic I 1.9 dTi	1999-03



Reemplaza / Suitable:
Nissan 23731-BN700
23750-00QAD
Renault 7700 100 566
7700 109 055

L

L1

24

ohm

700



79032

RENAULT	
Laguna 1.9 dTi	1997-01
Laguna Grandtour 1.9 dTi	1997-01
Megane I 1.9 dTi	1997-01
Megane I Classic 1.9 dTi	1997-01
Megane I Coach 1.9 dTi	1997-01
Megane Scenic 1.9 dT	1997-99
Megane Scenic 1.9 dTi	1997-99
Scenic I 1.9 dTi	1999-03



Reemplaza / Suitable:
Renault 77 00 100 650

L

430

L1

24

ohm

900



79033

CITROEN		FIAT		PEUGEOT	
AX 14	1987-97	Ducato 1.9 TD	1998-02	205	1990-98
Berlingo 1.8i	1997 ->	Ducato 2.0i	1994-02	306. Break, Cabriolet	1997-01
BX 19. BX GTI	1986-94	Scudo 1.9 TD, TD Eco	1996-02	309	1989-93
Evasion	1997-02	Ulysse 1.8i, 2.0i	1997-02	405. 405 Break/Coupe	1990-04
Jumper 2.0	1994-02	Ulysse 2.0i 16V, Turbo	1998-00	605	1990-99
Jumpy 1.9 TD	1996-02	Ulysse 2.1 TD	1996-99	806	1995-02
Xantia. Xantia Break	1994-00	LANCIA		Boxer 2.0i	1994-02
XM. XM Break	1994-00	Zeta 2.0i 16V	1998-00	Expert 1.9 TD	1996 ->
XSara. XSara Break	1997-02	Zeta 2.0 Turbo	1995-02	Partner	1996 ->
XSara Coupe	1998-00	Zeta 2.1 TD	1996-99	RENAULT	
ZX. ZX Break	1992-98			Espace III 3.0 V6 24V	1998-02
				Laguna 3.0 24V	1997-01



Reemplaza / Suitable:
Citroen 91.541.075
96.037.097
96.068.168
Fiat 9606816880
9622209880
Peugeot 1920.C3
1920.W9
5918.81
5918.87
5918.90

L

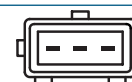
340

L1

24

ohm

370





79034

CITROEN		CITROEN Cont.		PEUGEOT Cont.	
AX 1.1	1986-91	XSara 1.6i, Break	1997-00	306 1.1	1994-00
AX 1.4	1991-93	XSara Coupe 1.4i, 1.6i	1998-00	306 1.4 SL, Break	1994-00
AX 1.4 GTI	1991-96	ZX 1.1, 1.1i	1991-98	306 1.6 SR, Break	1994-00
AX 10. AX 11. AX 14	1986-97	ZX 1.4i, Break	1991-97	306 Cabriolet 1.6i	1996-00
Berlingo 1.1i	1996 ->	PEUGEOT		405 1.4	1992-96
Berlingo 1.4i	1996 ->	106 I Gasolina/Petrol	1991-96	Partner 1.1, 1.4	1996 ->
Saxo 1.0 X	1996-03	106 II 1.0i	1996 ->	Ranch 1.1i, 1.4i	1996 ->
Saxo 1.1 S, SX	1996-03	106 II 1.1i	1997 ->		
Saxo 1.4 VTS	1996-03	106 II 1.4i	1996 ->		
Saxo 1.6 VTL, VTR	1996-03	106 II 1.6i	1996 ->		
Saxo 1.6 VTS	1996-03	106 II 1.6i 16V	1996 ->		
XSara 1.4i, Break	1997-05	205	1989-98		

Reemplaza / Suitable:
Citroen 96.085.170
Peugeot 1920.4A
 1920.J5
 1920.Z3



L
340

L1
24

ohm
370



79036

BMW	
316i	1993-94
316i Touring	1990-95
318i	1991-93
318i Touring	1991-93
518i	1989-95
518i Touring	1992-93

Reemplaza / Suitable:
BMW 12 141 727 554



L
630

L1
24

ohm
900



79037

ALFA ROMEO		ALFA ROMEO Cont.		IVECO	
33 1.5 IE, 1.7 IE	1990-95	164 2.0i Twin Spark	1988-98	Daily II	1999 ->
75 1.6 IE, 1.8 IE	1987-92	164 2.0i Turbo, Super	1988-92	LANCIA	
75 2.0i Twin Spark	1987-92	164 3.0i 24V, Super	1989-98	Kappa 3.0i 24V	1994-01
75 3.0i V6	1990-92	166 2.5i 24V	1998-00	Kappa Coupe 3.0i	1997 ->
145 1.6 ie, 1.7 ie	1994-96	166 3.0i 24V	1998-00		
146 1.6 ie, 1.7 ie	1994-96	GTV 2.0i Turbo	1995 ->		
155 1.7i Twin Spark	1993-96	GTV 3.0i 24V	1996-00		
155 1.8i Twin Spark	1992-96	Spider 2.0i	1990-93		
155 2.0i Twin Spark	1993-95	Spider 2.0i Turbo	1998-05		
155 2.0i 16V	1993-95	Spider 3.0i 12V	1995-05		
156 2.5i 24V	1997-00	Sz 3.0	1998-94		
		Rz 3.0	1992-94		

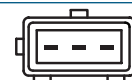
Reemplaza / Suitable:
Alfa Romeo 60513208
 60595754
 46472687
Fiat 60810692
Iveco 99455422



L
650

L1
24

ohm
900



79038

BMW	
320i 24V	1990-95
320i Coupe 24V	1991-95
325i 24V	1990-94
325i Cabrio	1993-95
325i Coupe	1990-95
520i Touring	1991-97
520i Touring 24V	1991-97
525i	1989-95
525i Touring	1991-97
525 ix Touring	1991-97

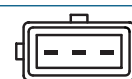
Reemplaza / Suitable:
BMW 12 141 726 066



L
735

L1
24

ohm
900



79039

BMW		BMW Cont.	
316 i, Touring	1988-94	540i	1992-97
318 i, Cabrio, Touring	1987-94	M5 3.6	1988-97
320 i, Cabrio, Touring	1985-91	M5 3.8	1992-95
325 e	1985-87	Z 1 2.5	1988-91
325 i, Cabrio, Touring	1983-91		
325 ix, Cabrio, Touring	1986-91		
518 i, Touring	1989-97		
520 i	1989-97		
525 e	1981-87		
525 i	1989-97		
530 i	1992-97		
535i	1988-95		

Reemplaza / Suitable:
BMW 12 141 713 007
 12 141 720 852
 12 141 720 854
Bosch 0261 210 060



L
735

L1
24

ohm
900



79041

OPEL		VAUXHALL	
Astra F 2.0 i 16V	1995-98	Astra Mk III 2.0 i 16V	1994-98
Astra F Caravan 2.0 i 16V	1995-98	Astra Mk III CC 2.0 i 16V	1994-98
Astra F CC 2.0 i 16V	1995-98	Astra Mk IV 2.0 16V	1998 ->
Astra G Caravan 2.0 16V	1998-04	Astra Mk IV CC 2.0 16V	1998 ->
Astra G CC 2.0 16V	1998-05		
Astra G CC 2.0 16V OPC	1999-02		
Astra G Sedan 2.0 16V	1998-05		

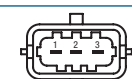
Reemplaza / Suitable:
GM 6238080
 90520855
Opel 6238080



L
820

L1
24

ohm
550





79044

OPEL		SAAB	
Ascona C	1986-88	900 II	1993-98
Astra F	1991-98	9000	1990-98
Calibra A	1990-97	9-3	1993-03
Frontera A	1992-98		
Kadett E	1985-93		
Omega A	1986-94		
Omega B	1994-00		
Vectra A	1988-95		
Vectra B	1995-03		



Reemplaza / Suitable:
Bosch 0261 210 030
G.M. 90493864
Opel 1238358
 6238313
 6238376
 4227203
Saab

L
1027

L1
24

ohm
550



79045

CHEVROLET		DAEWOO		OPEL	
Captiva 2.4	2006 ->	Evanda 2.0	2002 ->	Antara 2.4	2006 ->
Epica	2005-06	Lacetti Fastback 1.8	2004 ->	Frontera B 2.2 i	1998 ->
Evanda 2.0	2005 ->	Leganza 2.0 16V	1997 ->	VAUXHALL	
Lacetti 1.8	2005 ->	Leganza 2.2 16V	1999-02	Frontera Mk II 2.2 i	1998 ->
Nubira Kombi 1.8	2005 ->	Nubira 2.0 16V	1997 ->		
Nubira Sedan 1.8	2005 ->	Nubira Sedan 1.8	2003 ->		
Tacuma 2.0	2005 ->	Nubira Sedan 2.0 16V	1997 ->		
		Nubira Wagon 2.0 16V	1997 ->		
		Tacuma 2.0	2001 ->		



Reemplaza / Suitable:
Daewoo 10456515
 96418382
GM 10456515
 96418382
Isuzu 8-10456-515-0
Opel 4808137
 6238118

L
1000

L1
24

ohm
580



79046

HONDA		LAND ROVER		ROVER	
Accord VI 2.0 TDI	1996-98	Freelander 2.0 DI	1998 ->	220 D, SD	1995-00
Accord VII 2.0	1999-02	M.G.		220 SDI	1995-00
Accord VII 2.0 TDiC	1998-00	MG ZR Turbodiesel	2001 ->	25 2.0 iDT	1999 ->
Civic V 2.0 TDi	1998-00	MG Z5 2.0	2004 ->	420 D	1995-00
Civic V 2.0	1997-01			420 Di	1995-00
				45 2.0 iDT	2000 ->
				620 SDi	1994-99

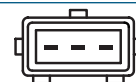


Reemplaza / Suitable:
Honda 78420-P5T-G00
Land Rover NSC100110L
Rover NSC100110

L
190

L1
24

ohm
900



79047

Aislante gris / Grey colour

HYUNDAI		KIA	
Accent 1.3	1994 ->	Cerato 1.6	2004 ->
Accent 1.4	2005 ->	Rio II 1.4	2005 ->
Accent 1.5	1994 ->	Rio II 1.6	2005 ->
Accent 1.6	2002 ->		
Coupe 1.6	1996 ->		
Elantra 1.6	2000 ->		
Getz 1.3	2002 ->		
Getz 1.4	2005 ->		
Getz 1.6	2002 ->		
Matrix 1.6	2001 ->		



Reemplaza / Suitable:
Hyundai 39180-22600
 39180-22900
Kia 39180-22600
 39180-22900

L
210

L1
24

ohm
900



79048

Aislante gris / Grey colour

AUDI		SKODA		VOLKSWAGEN	
A3	1996 ->	Fabia	1999-08	Passat	2000-05
A4	2004 ->	Felicia	1998-01	Polo	2005 ->
A6	2005 ->	Octavia	1996 ->	Touran	2003 ->
TT	1998-06				
SEAT		VOLKSWAGEN			
Altea	2004 ->	Bora	1998-05		
Cordoba	1999 ->	Caddy	1995-00		
Exeo	2009 ->	Golf IV	1997-06		
Ibiza III, IV	1999 ->	Golf V	2004 ->		
Leon	1999 ->	Golf VI	2008 ->		
Toledo	1999-09	Golf Plus	2005 ->		
		Jeta III	2005 ->		
		New Beetle 1.8	2001 ->		

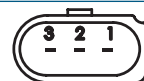


Reemplaza / Suitable:
Seat-VW 06A 906 433 L

L
215

L1
24

ohm
900



79049

HYUNDAI		HYUNDAI Cont.	
Accent 1.3i 12V	1994-99	Lantra 1.5i 12V, SW	1997-00
Accent 1.5i 12V	1994-99	Lantra 1.6i 16V, SW	1995-00
Accent 1.5i 16V	1996-99	Lantra 1.8i 16V, SW	1995-00
Coupe 1.6i 16V	1997-02	Lantra 2.0i 16V, SW	1997-00
Coupe 2.0i 16V	1996-02	Pony 1.3i 12V	1994-99
Elantra 1.6i 16V, SW	1995-00	Pony 1.5i 12V	1994-99
Elantra 1.8i 16V, SW	1995-00	Tiburon 1.6i 16V	1999 ->
Elantra 2.0i 16V	1997-00	Tiburon 2.0i 16V	1999 ->
Excel 1.3i 12V	1994-99		
Excel 1.5i 12V	1994-99		
Excel 1.5i 16V	1996-99		



Reemplaza / Suitable:
Hyundai 39180-22040
 39180-22050
 39180-22060
 39180-23000

L
220

L1
24

ohm
900





79050

AUDI	SEAT	VOLKSWAGEN
A3 2.0 FSI	Alhambra 1.8 T 20V	Eos 2.0 FSI
2003 ->	1998 ->	2006 ->
	Alhambra 2.0i	Golf V 2.0 FSI
	1996 ->	2004 ->
	Altea 2.0 FSI	Golf Plus FSI
	2004 ->	2005 ->
	Leon 2.0 FSI	Jetta 2.0 FSI
	2005 ->	2005 ->
	Toledo 2.0 FSI	Multivan 2.0
	2004 ->	2003 ->
	SKODA	Passat 2.0 FSI
	Octavia 2.0 FSI	2003 ->
	2004 ->	Sharan 1.8 T 20V
	Octavia Combi 2.0 FSI	1997 ->
	2004 ->	Sharan 2.0i
		1995 ->
		Transporter V 2.0i
		2003 ->
		Touareg 3.0 TDI
		2004-10
		2003 ->
		Touran 2.0 FSI
		2003 ->

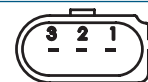
Reemplaza / Suitable:
 Seat-VW 06A 906 433 K



L
255

L1
24

ohm
900



79051

CITROEN	KIA	PEUGEOT
BX 1.9i GTI	Sportage 2.0i (SOHC)	205 1.9 GTI
1987-93	1994-03	1987-94
ZX 1.9i	1991-96	1988-89
HYUNDAI		1989-93
S Coupe 1.5i 12V		1993-97

Reemplaza / Suitable:
 Citroën 913541.027
 Hyundai 39180-22001
 Kia 0K04G-18891
 PSA 5918.80



L
330

L1
24

ohm
900



79052

FORD	VOLKSWAGEN
Galaxy 2.8i V6	Corrado 2.9i VR6
1995-00	1991-95
	Golf III 2.8i VR6
	1992-97
	Golf III 2.9
	1994-99
	Passat 2.8i V6
	1991-97
	Passat 2.9i Syncro
	1994-97
	Passat Variant 2.8i
	1991-97
	Sharan 2.8
	1995-00
	Transporter IV 2.8
	1995-00
	Vento 2.8i VR6
	1992-98

Reemplaza / Suitable:
 Ford 1021187
 95VW-6C315BA
 VW 021 906 433 A
 021 906 433 C



L
390

L1
24

ohm
900



79053

FIAT	KIA	HYUNDAI
Palio 1.4i EL	Clarus 1.8i	H1 2.5 TD
1996 ->	1996 ->	1997 ->
Palio 100 1.6i 16V	Retona 2.0	2000 ->
1998 ->	1999 ->	1997 ->
Palio Weekend 1.4i EL	Retona 2.0 TD	
1997 ->	1999 ->	
Punto GT 1.4i Turbo	Sportage 2.0i	
1994-99	1996 ->	
Siena 1.4i	Sportage 2.0i 16V	
1996 ->	1994-03	
	Sportage 2.0 TDI	
	1997-03	

Reemplaza / Suitable:
 Fiat 7766252
 Hyundai 39650-42110
 Kia 0K08A-18-891
 0K9A0-18891
 0K9AA-18891



L
390

L1
24

ohm
900



79054

CITROEN	INNOCENTI	PEUGEOT
Jumpy 1.6i	Elba 1.4i	Expert 1.6i
1995 ->	1994-96	1996 ->
FIAT	Elba 1.6i	
Fiorino 1.4 ie	1994-96	
1993-01	Elba 1.7 D	
Fiorino 1.6 ie	1991-96	
1996 ->		
Scudo 1.6 ie		

Reemplaza / Suitable:
 Fiat 46411427
 PSA 1920.Y9



L
430

L1
24

ohm
900



79055

AUDI	SEAT	VOLKSWAGEN
A3 3.2, quattro	Leon 1.8 T Cupra R	Golf IV 3.2 R32 qstar
2003 ->	2002-06	2002-05
A4 2.4, quattro, Avant	Leon 1.8 T Cupra R	Golf V 2.0
1997-01	2002-06	2006 ->
A4 2.8, quattro, Avant	Leon 1.8 T Cupra R	2004 ->
1996-00	2003-06	2004 ->
A4 3.0, quattro, Avant	SKODA	New Beetle 2.0
2000-04	Ocatvia 1.6	1998 ->
A4 Cabrio 2.4, 3.0	1997 ->	1998-00
2002-05	Ocatvia 1.8	1997-00
A6 2.4, quattro, Avant	1997 ->	1997-00
1997-05	Ocatvia 2.0	2002 ->
A6 2.8, quattro, Avant	1999 ->	2002-10
2002-05	Super B 2.8 V6	2002-10
A6 3.0, quattro, Avant	2002 ->	2000 ->
2001-04	PORSCHE	
A8 3.0	Cayene 3.2	
2003 ->	2003 ->	
Q7 3.6 FSI		
2006 ->		
TT 1.8 T, quattro, Roadster		
1998-06		

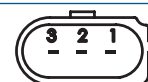
Reemplaza / Suitable:
 Audi-VW 021 906 433 E
 078 906 433 B



L
450

L1
24

ohm
900



Modelos con cambio Manual.
 Models with manual gear.
 Modèles avec boîte vitesse manuelle.



79056

AUDI	SEAT	VOLKSWAGEN
A3 1.6, 1.8, T, S3, Quattro A4 1.6, Avant A4 2.4, 2.8, Quattro, Avant A4 3.0, Quattro, Avant. Aut. A6 1.8, 1.8 T, Avant A6 2.4, Quattro, Avant A6 2.7, Quattro, Avant A6 2.8, Quattro, Avant A6 3.0, Quattro, Avant A8 2.8, Quattro Allroad 2.7 T, Quattro TT 1.8 T, Quattro, Roadster	1996 -> 1997-00 1997-00 2000-04 1997-05 1997-04 1997-04 1997-01 2001-04 1996-02 2000-05 1998-06	Alhambra 1.8 T 20V Cordoba 1.6, Vario Cordoba 1.8 T 20V Ibiza III 1.6 Ibiza III 1.8 T 20V Cupra Leon 1.6, 1.8 20V T Toledo II 1.6, 1.8 20V 1998-00 1999-02 2000-01 1999-02 2000-02 1999-04 1999-06 1999-08 1998-05 1999 -> 2002-08
	SKODA	
	Fabia 2.0, Combi Octavia 1.6, 1.8, 1.8 T, 2.0 Octavia Combi 1.6, 1.8, 2.0 SuperB 2.0, 2.8 V6	Bora 1.6, 1.8, 1.8 T Bora 2.0, 4Motion Golf IV 1.6, 1.8, 1.8 T Golf IV 2.0, 2.0 4Motion Golf IV Variant 1.6, 1.8, 2.0 New Beetle 1.8 T, 2.0 Passat 1.6, Variant Passat 2.0, 4Motion, Variant Passat 2.8 V6, Syncro Polo 100 1.6, Variant Sharan 1.8 T 20 V

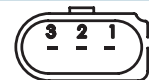


Reemplaza / Suitable:
Bosch 0261 210 147
Audi-VW 06A 906 433 C

L
570

L1
24

ohm
900



79057

FIAT	LANCIA
Tempra 1.4 ie Tempra 1.6, SX Tempra 1.6 ie Tipo 1.4 ie Tipo 1.6 ie Tipo 1.6 ie S Tipo 1.6 SX Uno 1.6 R	1992-96 1990-93 1992-96 1989-95 1990-95 1993-96 1993-95 1992-95
	Dedra 1.6 ie Dedra 1.8 ie Delta 1.4 ie Delta 1.6 ie



Reemplaza / Suitable:
Bosch 0261 210 103
0261 210 118
Fiat 7756924
7799032

L
650

L1
24

ohm
900



79058

FIAT	LANCIA	HYUNDAI
Tempra 1.4 ie Tempra 1.6 ie Tempra 1.8 ie Tempra 2.0 ie Tipo 1.1 Tipo 1.4 ie Tipo 1.6 ie Tipo 1.6 ie S	1991-96 1990-96 1992-96 1991-95 1988-91 1989-95 1988-91 1990-93	Dedra 1.6 ie Dedra 1.8 ie Delta 1.4 ie Delta 1.6 ie
	1993-94 1984-99 1996 -> 1993-96	Terracan 2.5 TD 2001 ->

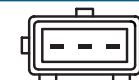


Reemplaza / Suitable:
Bosch 0261 210 102
0261 210 115
Fiat 7756925
7799033
Hyundai 39650-42140

L
750

L1
24

ohm
900



79059

Aislante gris / Grey colour

AUDI	VOLKSWAGEN	VOLKSWAGEN
A4 Avant A4 2.5i 24V A4 Quattro 2.5i A6 Avant A6 Avant Quattro A6 2.5i 24V A6 2.7i 30V A6 Quattro 2.5i, 2.7i A8 2.5i 24V A8 2.8i 30V A8 Quattro 2.5i, 2.8i	1999-04 1999-04 1999-04 1998-05 1998-05 1997-05 1998-05 1997-05 1997-02 1996-02 1995-02	Passat 1.6 Passat 1.8 T Passat 2.5i TDI Passat Variant 1.6 Passat Variant 1.8 T Passat Variant 2.5 TDI 1998-05 2000-05 2000-05 1998-05 2000-05 2000-05 2002-08 2002-08 2001-05
	SEAT	
	Exeo 1.6 Exeo 1.8 T	2009 -> 2009 ->

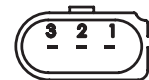


Reemplaza / Suitable:
Bosch 0261 210 223
Audi-VW 078 906 433 A

L
750

L1
24

ohm
900



79060

ALFA ROMEO	FIAT	LANCIA
Alfa 145 1.9 JTD Alfa 145 1.9 TD Alfa 146 1.9 JTD Alfa 146 1.9 TD Alfa 147 1.9 JTD Alfa 156 1.9 JTD, Sw Alfa 156 2.4 JTD, Sw Alfa 166 2.4 JTD	1999-00 1998-99 1999-00 1998-99 2001-03 1997-04 1997-05 1998-03	Brava 1.9 JTD, JTD 105 Bravo 1.9 JTD, JTD 105 Doblo 1.9 D, JTD ,Cargo Marea 1.9 JTD 105, JTD 110 Marea 2.4 JTD 130 Multipla 1.9 JTD 105, 110 Palio 1.9D Punto 1.9 DS 60 Punto 1.9 JTD, JTD 80 Stilo 1.9 JTD, Multi Wagon Strada 1.9 D, Pick-up Strada 1.9 JTD
		1998-01 1998-01 2001 -> 1999-02 1999-02 1999-01 2001 -> 1999-03 1999-03 2001-04 2000-03 2003-04
		OPEL
		Campo 2.5 TD, 4x4 Campo 3.1 TD, 4x4 1994 -> 1992 ->
		ISUZU
		D-Max 2.5 D 2002 ->

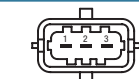


Reemplaza / Suitable:
Alfa Romeo 60814769
60816553
0281 002 214
Bosch 46437264
Fiat 46446873
46481639
46806128
G.M. 97323554
Isuzu 8-97323-554-D
Opel 0851366

L
475

L1
37,5

ohm
900



79061

AUDI	SKODA	VOLKSWAGEN
A3 1.6 A3 1.8, Quattro A3 1.8 T, Quattro A3 1.9 TDI	1996-00 1996 -> 1997 -> 1996-01	Golf IV 1.9 TDI, 4-Motion Golf IV 2.0i, Variant Golf IV 2.3i V5, 4-Motion New Beetle 1.6i New Beetle 1.8 T New Beetle 1.9 TDI New Beetle 2.0i
SEAT	VOLKSWAGEN	
Leon 1.6 Leon 1.8 20 V Toledo 1.6i Toledo 18i 20V	2000-06 2000-06 1999-00 1999-06	Bora 1.6i, Break Bora 1.8i, 4Motion, T Bora 1.9 TDI, 4-Motion Bora 2.0i, Break Bora 2.3 V5, 4-Motion Golf IV 1.6, Variant Golf IV 1.8, T, 4-Motion



Reemplaza / Suitable:
Seat-VW 01M 927 321

L
360

L1
30

ohm
790





79062

AUDI		SKODA		VOLKSWAGEN	
A3 1.6	2000-03	Octavia 1.6i, Combi	1997 ->	Golf IV 1.9 TDI, 4-Motion	1997-01
A3 1.8, Quattro	1996 ->	Octavia 1.8i, Combi	1996 ->	Golf IV 2.0i, Variant	2000-05
A3 1.8 T, Quattro	1997 ->	Octavia 2.0i, Combi	1999 ->	Golf IV 2.3i V5, 4-Motion	1997-00
A3 1.9 TDI	1996-01	Octavia 1.9 TDI, Combi	1996 ->	New Beetle 1.6i	2000 ->
SEAT		VOLKSWAGEN		New Beetle 1.8 T	1999 ->
Leon 1.6	2000-06	Bora 1.6i, Break	1998-05	New Beetle 1.9 TDI	1998 ->
Leon 1.8 20 V	2000-06	Bora 1.8i, 4Motion, T	1999-05	New Beetle 2.0i	1998 ->
Toledo 1.6i	1999-00	Bora 1.9 TDI, 4-Motion	1998-01	Modelos con cambio Automático. Models with automatic gear or Auto- matic Transmission. Modèles avec boîte vitesse automa- tique.	
Toledo 18i 20V	1999-06	Bora 2.0i, Break	1998-05		
		Bora 2.3 V5, 4-Motion	1998-00		
		Golf IV 1.6, Variant	2000-05		
		Golf IV 1.8, T, 4-Motion	1998-05		

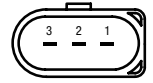
Reemplaza / Suitable:
Seat-VW 01M 927 321 B



L
355

L1
30,5

ohm
800



79063

AUDI		SKODA		VOLKSWAGEN	
A3 1.9 TDI, Quattro	2000 ->	Fabia 1.9 TDI	2000-08	Bora 1.9 TDI, 4-Motion	2000-05
FORD		Fabia 1.9 TDI RS	2003-08	Bora Variant 1.9 TDI	2000 ->
Galaxy 1.9 TDI	2000-06	Fabia Combi 1.9 TDI	2000-07	Golf IV 1.9 TDI, 4-Motion	2000-05
SEAT		Fabia Sedan 1.9 TDI	2000-07	Golf IV Variant 1.9 TDI	2000 ->
Alhambra 1.9 TDI	2000 ->	Octavia 1.9 TDI	2003 ->	Multivan V 1.9 TDI	2003 ->
Ibiza IV 1.9 TDI Cupra R	2004-08	Octavia Combi 1.9 TDI	2000 ->	New Beetle 1.9 TDI	2001 ->
Leon 1.9 TDI	2001-06	Octavia Combi 1.9 TDI 4x4	2000 ->	Sharan 1.9 TDI, 4-Motion	2000 ->
Leon 1.9 TDI Syncro	2002-06			Transporter V Bus 1.9 TDI	2003 ->
Toledo II 1.9 TDI	2000-06			Transporter V Kasten 1.9 TDI	2003 ->
				Transporter V Kasten 1.9 TDI	2003 ->

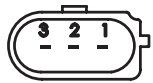
Reemplaza / Suitable:
Ford 1100749
 1358961
 1424270
 1431016
 1431017
 6M21-6C315-CA
Seat-VW 038 907 319 D
 038 957 147 D
 038 957 147 F



L
530

L1
46

ohm
500



79064

AUDI		SKODA		VOLKSWAGEN	
A4 1.9 TDI, Avant, Quattro	2000-04	SuperB 1.9 TDI	2002-08	Passat 1.9 TDI	1998-05
A4 2.0 TDI	2004 ->	SuperB 2.0 TDI	2005-08	Passat Break 1.9 TDI	2000-05
A4 Cabriolet 2.0 TDI	2006 ->			Passat Variant 1.9 TDI	1998-05
A6 1.9 TDI, Avant	2000-05				

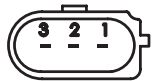
Reemplaza / Suitable:
Audi-VW 038 907 319 E



L
1000

L1
46

ohm
500



79065

AUDI		SEAT		VOLKSWAGEN	
A4 1.9 TDI, Avant, Quattro	1995-01	Alhambra 1.9 TDI	1996-01	Caddy II 1.9 SDI	1996-04
A6 1.9 TDI, Avant	1994-99	Arosa 1.7 SDI	1997-01	Caddy II 1.9 TDI 90 cv.	1996-04
FORD		Cordoba 1.9 SDI, Vario	1996-99	Golf III 1.9 SDI	1997-99
Galaxy 1.9 TDI 90-110 cv	1995-00	Cordoba 1.9 TDI, Vario	1996-99	Golf III 1.9 TDI 90-110 cv.	1994-99
		Ibiza II 1.9 SDI	1996-99	Golf III Variant 1.9 TDI	1996-99
		Ibiza II 1.9 TDI 90 cv.	1996-99	Golf IV 1.9 TDI	1998-02
		Inca 1.9 SDI	1996-99	Lupo 1.7 SDI	1998-01
		Toledo 1.9 TDI 90-110 cv.	1995-99	Passat 1.9 TDI 90-110 cv.	1994-00
				Polo 1.7 SDI, 1.9	1996-99
				Polo 1.9 TDI 90 cv.	1996-01
				Sharan 1.9 TDI 90-110 cv.	1995 ->
				Vento 1.9 TDI 90 cv.	1993-98

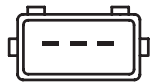
Reemplaza / Suitable:
Ford 1051046
 95VW-6C315-CA
Seat-VW 028 907 319 B



L
521,5

L1
46

ohm
1400



79066

AUDI		SKODA		VOLKSWAGEN	
A3 1.9 TDI 90-110 cv.	1996-01	Octavia 1.9 SDI, Combi	1997-01	Bora 1.9 TDI 90-110 cv.	1998-01
-> Ch. 8L-X-200000		Octavia 1.9 TDI 90-110 cv.	1996-01	-> Ch. 1J-X-800000	
SEAT		Octavia Combi 1.9 TDI	1998-01	Golf IV 1.9 SDI, Variant	1997-01
Cordoba 1.9 SDI, Vario	1999-02	-> Ch. 1U-Y-284729		Golf IV 1.9 TDI 90-110 cv.	1997-01
Cordoba 1.9 TDI, Vario	1999-02			Golf IV Variant 1.9 TDI	1999-01
Ibiza III 1.9 SDI	1999-02			-> Ch. 1J-X-999999	
Ibiza III 1.9 TDI 90-110 cv.	1999-02			New Beetle 1.9 TDI 90 cv.	1998-01
-> Ch. 6K-Y-021000				-> Ch. 1C-X-499000	
Leon 1.9 TDI 90-110 cv.	2000-02			Polo 1.9 SDI, Variant	1999-01
Toledo II 1.9 TDI 90-110 cv.	1999-02			Polo 1.9 TDI 90-110 cv.	1998-01
-> Ch. 1M-X-025000				-> Ch. 6K-Y-507600	

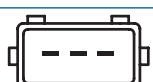
Reemplaza / Suitable:
Seat-VW 038 907 319



L
521,5

L1
46

ohm
1400



79067

AUDI		SKODA		VOLKSWAGEN	
A3 1.9 TDI 90-110 cv.	1996-01	Fabia 1.9 SDI	1999-08	Bora 1.9 SDI	1999 ->
Ch. 8L-Y-000001 ->		Fabia Combi 1.9 SDI	2000-07	Bora 1.9 TDI 90-110 cv.	1998-01
SEAT		Fabia Praktik 1.9 SDI	2001-07	Ch. 1J-Y-000001 ->	
Cordoba 1.9 SDI, Vario	1999-02	Fabia Sedan 1.9 SDI	1999-07	Caddy II 1.9 TDI 90 cv.	1997-04
Cordoba 1.9 TDI, Vario	1999-02	Octavia 1.9 SDI	1997 ->	Golf IV 1.9 SDI	1997-01
Ch. 6K-Y-021001 ->		Octavia 1.9 TDI	1996 ->	Golf IV 1.9 TDI 90-110 cv.	1997-01
Ibiza 1.9 TDI	1999-02	Octavia Combi 1.9 SDI	1998 ->	Golf IV Variant 1.9 TDI	1999-01
Inca 1.9 SDI	1996-01	Octavia Combi 1.9 TDI 4x4	1999-00	Ch. 1J-Y-000001 ->	
Leon 1.9 SDI	2000 ->			New Beetle 1.9 TDI	1998-04
Leon 1.9 TDI 90-110 cv.	2000-02			Polo 1.9 SDI, Variant	1999-01
Toledo II 1.9 TDI 90-110 cv.	1999-02			Polo 1.9 TDI 90-110 cv.	1998-01
Ch. 1M-Y-000001 ->				Ch. 6K-Y-507601 ->	

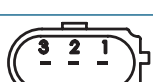
Reemplaza / Suitable:
Seat-VW 038 907 319 F



L
535

L1
46

ohm
1200





79069

OPEL	
Astra G 1.8i 16V	1998-00
Astra G Combo 1.8 16V	1998-00
Astra G Coupe 1.8 16V	2000-00
Vectra B 1.6i 16V	1995-02
Vectra B 1.8i 16V	1995-00
Vectra B Combo1.6 16V	1997-00
Vectra B Combo1.8 16V	1997-00
Zafira 1.8i 16V	1999-00

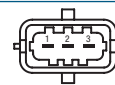


Reemplaza / Suitable:
G.M. 90520856
Opel 6238459

L
350

L1
34,5

ohm
550



79070

OPEL	
Astra F 1.4 SI	1992-98
Astra F 1.6i, SI	1992-98
Astra F Cabrio 1.4 SI, 1.6i	1993-01
Astra F Break 1.4i, 1.6i	1993-98
Combo 1.4i	1994-99
Corsa A 1.4 SI	1991-93
Corsa A 1.6 GSI Cat.	1992-93
Corsa B 1.2i	1993-00
Corsa B 1.4i, SI	1993-00
Corsa B Combo 1.4i	1999-00
Vectra A 1.6i	1993-95
Vectra B 1.6i, Break	1995-02

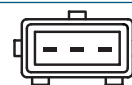


Reemplaza / Suitable:
G.M. 90357491
90451442
Opel 1238983
6238325

L
660

L1
34,5

ohm
550



79071

OPEL	
Astra F TD	1994-98
Astra F Classie 1.7 TD	1998-00
Astra F Fastback 1.7 TD	1994-98
Astra F Uan 1.7 TD	1999-99
Astra G 1.7 TD	1998-00
Astra G Break 1.7 TD	1998-00
Astra G Combo 1.7 TD	1998-00
Astra G Van 1.7 TD	1999-02



Reemplaza / Suitable:
Bosch 0281 002 285
G.M. 09118150
Opel 6238101

L
300

L1
34,5

ohm
900



79072

FIAT		LANCIA	
Barchetta 1.8 16V	1995 ->	Dedra 1.8 16V LE	1996-99
Brava 1.8 GT 16V	1995-01	Dedra 1.8 GT 16V	1996-99
Bravo 1.8 GT	1995-01	Dedra SW 1.8 16V	1996-99
Coupe 1.8 16V	1996-00	Delta II 1.8 ie 16V	1996-99
Marea 1.8 115 16V	1996 ->	Delta II 1.8 ie 16V GT	1996-99
Marea Weekend 1.8 16V	1996 ->		

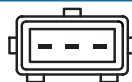


Reemplaza / Suitable:
Fiat 46432909
60601207

L
400

L1
34,5

ohm
600



79073

FIAT		LANCIA	
Brava 1.4, 1.4i	1995-01	Y 1.2	1996-03
Brava 1.9 TD	1996-01	Y 1.4 12V	1996-03
Bravo 1.4, 1.4i	1995-01		
Bravo 1.9 TD	1996-01		
Bravo 2.0 HGT 20V	1995-98		
Coupe 2.0 20V, Turbo	1996-98		
Marea 1.4i 80	1996 ->		
Marea 1.9 TD 100	1996 ->		
Marea 1.9 TD 75	1996 ->		
Marea 2.0i 20V	1996 ->		
Marea 2.4 TD 125	1996-99		
Marea Weekend	1996 ->		

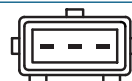


Reemplaza / Suitable:
Bosch 0281 002 102
Fiat 7766251

L
420

L1
34,5

ohm
900



79074

OPEL		OPEL Cont.		SAAB	
Astra G 2.0 DI	1998-04	Vectra B 2.0 DI 16V	1997-02	9-3 2.2 TiD	1998 ->
Astra G 2.0 DTI 16V	1999-04	Vectra B 2.0 DTI 16V	1997-02	9-5 2.2 Tid	2002 ->
Astra G Combo DI, DTI	1999-05	Vectra B 2.2 DTI 16V	2000-02		
Astra G Van DI, DTI	1999-05	Vectra B Combo DTI 16V	1998-02		
Frontera B 2.2 DTI	1998 ->	Vectra C 2.0 DTI 16V	2002 ->		
Omega B 2.0 DTI 16V	1997-00	Vectra C 2.2 DTI 16V	2002 ->		
Omega B 2.2 DTI 16V	2000-03	Zafira 2.0 DI 16V	1999 ->		
Signum 2.0 DTI	2003 ->	Zafira 2.0 DTI 16V	2000 ->		
Signum 2.2 DTI	2003 ->	Zafira 2.2 DTI	2003 ->		
Sintra 2.2 DTI	1997-99				



Reemplaza / Suitable:
Bosch 0281 002 138
G.M. 90540188
Opel 6238395
Saab 90 464 741
95 445 60
4772232

L
450

L1
34,5

ohm
900





79075

OPEL	
Astra F 1.4	1996-98
Astra F 1.6	1991-98
Astra G 1.4i 16V	1998-04
Astra G 1.6i	1998-00
Astra G 1.6i 16V	1998-05
Astra G Break 1.4i 16V	1998-05
Astra G Break 1.6i	1998-00
Astra G Combo 1.4i 16V	1998-05
Astra G Combo 1.6i	1998-00
Vectra B 1.6	1995-02
Zafira 1.6i 16V	1999-05

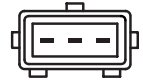


Reemplaza / Suitable:
G.M. 90520854
Opel 6238098

L
580

L1
34,5

ohm
550



79076

ALFA ROMEO		ALFA ROMEO Cont.	
145 1.4 ie 16V TS	1997-01	156 1.6i 16V TS	1997-05
145 1.6 ie 16V TS	1997-01	156 SportWagon 1.6i 16V	2000-06
145 1.8 ie 16V TS	1996-98	GTV 2.0i 16V TS	1995 ->
145 2.0i 16V TS	1995-01	Spider 2.0i 16V TS	1995-05
146 1.4 ie 16V TS	1997-01		
146 1.6 ie 16V TS	1997-01		
146 1.8 ie 16V TS	1996-01		
146 2.0i 16V TS	1996-01		
155 1.6i 16V TS	1996-98		
155 1.7 TS 16V	1996-97		
155 2.0i 16V TS	1995-97		

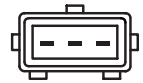


Reemplaza / Suitable:
Bosch 0261 210 129
Alfa Romeo 46411135

L
640

L1
34,5

ohm
900



79077

Aislante marrón / Brown colour

ALFA ROMEO		FIAT		LANCIA	
145 1.4 ie, 1.6ie, 16V T.S.	1997-01	Bravo 2.0 HGT 20V	1998-01	Kappa 2.0 20V	1996-01
145 1.8 ie 16V, 2.0 16V	1998-01	Coupe 2.0 20V	1998-00	Kappa 2.4 20V	1998 ->
146 1.4 ie, 1.6 ie, 16V T.S.	1997-01	Marea 2.0 150 20V	2001 ->	Kappa Coupe 2.4 20V	1998-00
146 1.8 ie 16V, 2.0 16V	1998-01	Marea 2.0 155 20V	1999-01	Kappa SW 2.0, 2.4 20V	1996-01
147 1.6 16V T.S.	2001 ->	Marea Weekend 2.0 20V	1999 ->	Lybra 2.0 20V	1999 ->
147 2.0 16V T.S.	2001 ->	Stilo 2.4 20V	2001 ->	Lybra 2.4 20V Blindata	2001 ->
156 1.6 16V TS, Sportwagon	1997-05			Lybra SW 2.0 20V	1999 ->
156 1.8 16V TS, Sportwagon	1997-05			Thesis 2.0 Turbo	2002 ->
156 2.0 16V TS, Sportwagon	1997-02			Thesis 2.4	2002 ->
166 2.0 T.S.	1998 ->				
GTV 1.8 16V, 2.0 16V TS	1998 ->				
Spider 1.8 16V, 2.0 16V TS	1998-05				



Reemplaza / Suitable:
Alfa Romeo 46469866
Bosch 0 261 210 160
Fiat 60814589

L
710

L1
34,5

ohm
900



79078

OPEL		OPEL Cont.	
Astra F 1.4 i 16V	1996-98	Corsa B 1.4i 16V	1994-00
Astra F 1.6 i 16V	1994-98	Corsa B 1.6 GSi 16V	1993-00
Astra F Cabriolet 1.4 i 16V	1996-01	Corsa B 1.6i 16V	1994-00
Astra F Caravan 1.4 i 16V	1996-98	Omega A 3.0i 24V	1989-94
Astra F Caravan 1.6 i 16V	1994-98	Senator B 3.0 24V	1989-93
Astra F Wagon 1.4i 16V	1996-98	Tigra 1.4i 16V	1994-00
Astra F Wagon 1.6i 16V	1994-98	Tigra 1.6i 16V	1994-98
Astra F CC 1.4 i 16V	1996-98	Vectra B 1.6i 16V	1995-02
Astra F CC 1.6 i 16V	1994-98	Vectra B Combo 1.6i 16V	1995-02
Astra F Caravan 1.6 i 16V	1998-05		
Astra F CC 1.6 i 16V	1998-02		
Astra F Stufenheck 1.6 i 16V	1998-02		

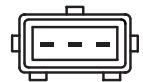


Reemplaza / Suitable:
Bosch 0261 210 048
G.M. 90337650
Opel 90483739
 6238393
 1238782

L
885

L1
34,5

ohm
550



NEW 79079

Aislante azul / Blue colour

AUSTIN		LAND ROVER		ROVER	
Maestro 1.6 MG	1983-90	Discovery 2.0 16V	1993-98	111 C, L, S, Cabrio	1990-98
Montego 1.6 LS, HL	1984-88			114 GSi	1994-95
				114 GTi 16V	1990-98
				114 S, L, GTA, Cabrio	1990-98
				214, Si, GSi	1993-95
				216 GSi, GTi	1989-95
				414, GSi, Si	1990-95
				416 GTi, GTE	1990-95
				Maestro 1.6	1990-95
				Mini 1300, Cabrio	1991-95
				Montego 1.6	1990-92



Reemplaza / Suitable:
Land Rover ADU 7340L
Rover ADU 7340
 ERR 3006

L
250

L1
31

ohm
1400



NEW 79080

Aislante azul / Blue colour

ROVER	
820	1988-91
820 16V Turbo	1992-99
820 i, Si	1992-99
820 Si	1988-91
820 Sport	1994-96
Montego 2.0 GTi	1988-91
Montego Estate 2.0 GTi	1988-91



Reemplaza / Suitable:
Rover ADU 7343

L
250

L1
25

ohm
1400





NEW 79081

Aislante azul / Blue colour

ROVER	
220 GTI (20M4F)	1991-95
220 GTI (20T4H)	1993-95
220 Turbo	1993-95
220 Coupe 16V, GSI	1992-99
220 Coupe Turbo	1992-99
420 GSI, SLI, GTI, Vitesse	1992-95
420 Turbo	1993-95
620 TI Vitesse	1994-99
820 16V Turbo	1992-99
820 i, SI	1993-99
820 Sport	1994-96

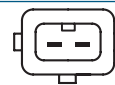


Reemplaza / Suitable:
Rover NSC10003
WSC 10003

L
250

L1
21

ohm
1400



79084

RENAULT		VOLVO		VOLVO Cont.	
Safrane II 2.5 20 V (N7U)	1996-00	850 2.0, 2.0 Turbo	1991-96	S70 2.5, 2.5 Bifuel	1997-00
		850 2.3 T5, T5-R	1993-96	S90 2.90	1997-98
		850 2.5	1991-96	V70 2.0, 2.0 Turbo	1997-00
		960 2.9, Kombi	1990-94	V70 2.3, T-5, Turbo, AWD	1997-98
		960 II 2.5, 2.9	1994-96	V70 2.4, 2.4 Turbo	1997-98
		C70 Coupe 2.0, 2.0 T	1997-02	V70 2.5, Bifuel, Turbo AWD	1997-00
		C70 Coupe 2.3 T-5, 2.5 T	1997-98	V90 2.90	1997-98
		C70 Cabrio 2.0, 2.0 T	1998-02		
		C70 Cabrio 2.3 T-5, 2.5 T	1997-98		
		S70 2.0, 2.0 Turbo	1997-00		
		S70 2.3 T-5, 2.3 Turbo	1997-98		
		S70 2.4, 2.4 Turbo	1997-98		

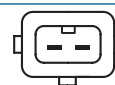


Reemplaza / Suitable:
Renault 7433 547 699
Volvo 3507941-7
3547699
3547699-3

L
310

L1
32,3

ohm
300



79085

SEAT		SKODA		VOLKSWAGEN	
Arosa 1.4	1997-04	Fabia 1.4 16V	1999-08	Lupo 1.4 16V	1998-05
Ibiza IV 1.4 16V	2002-07	Fabia Combi 1.4 16V	2000-07	Polo 1.4	1999-01
Cordoba 1.4 161V	2002 ->	Fabia Sedan 1.4 16V	1999-07	Polo 1.4 16V	1999-08
				Polo 1.4 16 V (BBY)	2001 ->
				Polo 55 1.4	1995-99
				Polo 60 1.4	1995-99
				Polo 75 1.6	1994-99
				Polo Classic 60 1.4	1995-01
				Polo Classic 75 1.4	1999-01
				Polo Classic 75 1.6	1995-01
				Polo Furgon 1.4	1998-99
				Polo Sedan 1.4	2003 ->

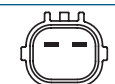


Reemplaza / Suitable:
Seat-VW 001 927 321 A

L
230

L1
37

ohm
600



79086

SEAT		SKODA		VOLKSWAGEN	
Arosa 1.4	1997 ->	Fabia 1.4 16V	1999-08	Lupo 1.4 16V	1998-05
Ibiza IV 1.4 16V	2002-07	Fabia Combi 1.4 16V	2000-07	Polo 1.4	1999-01
Cordoba 1.4 161V	2002 ->	Fabia Sedan 1.4 16V	1999-07	Polo 1.4 16V	1999-08
				Polo 1.4 16 V (BBY)	2001 ->
				Polo 55 1.4	1995-99
				Polo 60 1.4	1995-99
				Polo 75 1.6	1994-99
				Polo Classic 60 1.4	1995-01
				Polo Classic 75 1.4	1999-01
				Polo Classic 75 1.6	1995-01
				Polo Furgon 1.4	1998-99
				Polo Sedan 1.4	2003 ->

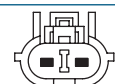


Reemplaza / Suitable:
Seat-VW 001 927 321

L
260

L1
37

ohm
600



79087

FORD		FORD Cont.			
Cougar 2.0 16V	1998-01	Mondeo II 1.6i, 1.8i, 2.0i	1996-00		
Cougar 2.5 V6 24 V.	1998-01	Mondeo II 1.6i 16V	1998-00		
Maverick 2.0 16V	2001 ->	Mondeo II 1.8 TD	1996-00		
Maverick 3.0 V6 24V	2001 ->	Mondeo II 2.5i 24V, ST 200	1996-00		
Mondeo I 1.6i 16V	1993-96	Mondeo III 1.8i 16V	2001-07		
Mondeo I 1.8i 16V, 4x4	1993-96	Mondeo III 2.0i 16V	2001-07		
Mondeo I 1.8 TD	1993-96	Mondeo III 2.5i V6 24V	2001-07		
Mondeo I 2.0i 16V, 4x4	1993-96	Mondeo III 2.0 16V DI	2001-07		
Mondeo I 2.5i 24V	1994-96	Mondeo III 2.0 16V TDDi	2001-07		
		Mondeo III 2.0 TDCi	2001-07		
		Mondeo III 3.0	2004-07		
		Mondeo III ST220	2002-07		

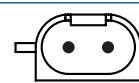


Reemplaza / Suitable:
Ford 3009084
4040494
4047431
4383679
4383693
6873316
F3RP7H062AA
F7RP7M101AA
XS7P7M101AA
XS7Z7M101KA

L

L1
29

ohm
680



79088

FORD		FORD Cont.		VOLVO	
C-Max 1.8, 2.0	2007 ->	Mondeo III Sedan 1.8	2000-07	C 30 1.8, 2.0	2006 ->
Fiesta V ST 150	2005 ->	Mondeo III Sedan 2.0	2000-07	S 40 II 1.8, 2.0	2004 ->
Focus C-Max 1.8	2003-07	Mondeo IV 2.0	2007 ->	S 80 II 2.0	2008 ->
Focus C-Max 2.0	2004-07	S-Max 2.0	2006 ->	V50 1.8, 2.0	2004 ->
Focus II 1.8	2006 ->	Transit 2.3	2006 ->	V70 III 2.0	2008 ->
Focus II 2.0	2004 ->				
Galaxy 2.0	2006 ->	3 2.0	2003 ->		
Maverick 2.3	2004 ->	5 1.8, 2.0	2005 ->		
Mondeo III 1.8	2000-07	6 1.8, 2.0, 2.3	2002 ->		
Mondeo III 2.0	2000-07	MPV II 2.3	2002 ->		
Mondeo III Ranchera 1.8	2000-07	Tribute 2.3	2004 ->		
Mondeo III Ranchera 2.0	2000-07				



Reemplaza / Suitable:
Ford 1119942
1S7F12K073AD
Mazda LF01-18-230
Volvo 30658182

L

L1
33,5

ohm
450





79089

FORD		FORD Cont.		MAZDA	
Cougar 2.0 16V	1998-01	Mondeo I 1.6i 16V	1993-96	Tribute 2.0i (USA)	2000 ->
Escort V 1.8 16V XR3i	1991-92	Mondeo I 1.8i 16V	1993-96	Tribute 2.0i 4x4 (USA)	2000 ->
Escort VI 1.6i 16V	1992-95	Mondeo I 2.0i 16V	1993-96		
Escort VI 1.8i 16V	1992-95	Mondeo II 1.6i	1996-00		
Escort VII 1.6 16V	1995-99	Mondeo II 1.6i 16V	1998-00		
Escort VII 1.8 16V	1995-99	Mondeo II 1.8i	1996-00		
Fiesta III 1.6i 16V	1992-95	Mondeo II 2.0i	1996-00		
Fiesta III 1.8i 16V	1992-95	Orion III 1.6i 16V	1992-93		
Focus 1.8 16V	1998-04	Orion III 1.8i 16V	1992-93		
Focus 1.8 TDCi	2002-04	Scorpio II 2.9	1994-98		
Focus 2.0 16V	1998-04	Tourneo Connect 1.8 16V	2002 ->		
Maverick 2.0 16V	2001 ->	Transit Connect 1.8 16V	2002 ->		

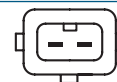


Reemplaza / Suitable:
Ford
6602999
6859706
7033372
928F12K073A1C
928F12K073A1D
928F12K073A1E
Mazda
YF09 18 230

L

L1
34

ohm
500



79090

NISSAN	
Almera 2.2 16V Di	2000 ->
Almera 2.2 dci	2003 ->
Almera Tino 2.2 16V Di	2000 ->
Almera Tino 2.2 dci	2003 ->

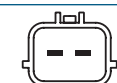


Reemplaza / Suitable:
Nissan
23731-AD200
23731-AD100
23731-AA 010

L

L1
34

ohm
600



79091

FIAT		LANCIA	
Barchetta 1.8 16V	1995 ->	Dedra 1.8 16V LE	1996-99
Brava 115 1.8 GT 16V	1995-01	Dedra 1.8 GT 16V	1996-99
Bravo 1.8 i 16V	1995-01	Dedra SW 1.8 16V	1996-99
Coupe 1.8 i 16V	1996-00	Delta II 1.8 ie 16V GT	1996-99
Marea 1.8 115 16V	1996 ->	Delta II HPE 1.8 ie 16V	1996-99
Marea Weekend 1.2 16V	1998 ->	Lybra 1.8 i 16V	1999 ->
Marea Weekend 1.8 16V	1996 ->		
Punto 1.8i 16V HGT	1999 ->		
Stilo 1.8	1995-98		



Reemplaza / Suitable:
Fiat
46479456

L

L1
34,5

ohm
600



79092

FORD		FORD Cont.		FORD Cont.	
Escort VII	1995-98	Galaxy 2.0 i	1995-06	Transit 2.4 DI	2000-06
Fiesta IV 1.25 i 16V	1995-02	Galaxy 2.3 16V	1997-06	Transit 2.4 DI [RWD]	2000-06
Fiesta IV 1.3 i	1995-02	Ka 1.3 i	1996-08	Transit 2.4 TDCi	2004-06
Fiesta IV 1.4 i 16V	1996-02	Puma 1.4 16V	1997-00	Transit 2.4 TDE	2001-06
Fiesta IV 1.6 16V Sport	2000-02	Puma 1.6 16V	2000 ->	FORD USA	
Fiesta Furgón 1.3	1996 ->	Puma 1.7 16V	1997 ->	Explorer 4.0 V6 Allrad	1998 ->
Focus 1.4 16V	1998-04	Sierra 2.0	1987-93	Explorer 4.9 V6	1996 ->
Focus 1.6 16V	1998-04	Scorpio II 2.0 i 16V	1994-98	Mustang 4.0 V6	2004 ->
Focus Kombi 1.4 16V	1999-04	Scorpio II 2.3 i 16V	1996-98	MAZDA	
Focus Kombi 1.6 16V	1999-04	Transit 2.0 DI	2000-06	121 III 1.25	1996 ->
Focus Sedan 1.4 16V	1999-04	Transit 2.0 TDCi	2002-06	121 III 1.3	1996 ->
Focus Sedan 1.6 16V	1999-04	Transit 2.3 16V [RWD]	2000-06		

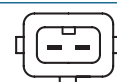


Reemplaza / Suitable:
Ford
1037465
1L2E-6B288-AA
4091961
5L2Z-6B288-A
7009579
95BF12K073-AA
95BF12K073-AB
Mazda
1 E03 18 194 A
1 E03-18 194

L

L1
33,5

ohm
450



79093

OPEL		OPEL Cont.		MAN	
Agila 1.0, 1.2	2000 ->	Zafira 2.0, 2.2	2000-05	RENAULT TRUCKS	
Astra G	1998-95			VOLVO TRUCKS	
Astra H	2004 ->				
Combo 1.4	2004 ->				
Corsa B 1.0, 1.2	1996-00				
Corsa C 1.0, 1.2, 1.4	2000 ->				
Corsa D 1.0, 1.2, 1.4	2006 ->				
Meriva 1.4	2004 ->				
Tigra 1.4	2004 ->				
Signum 2.0, 2.2	2003 ->				
Vectra B 2.0, 2.2	1997-03				
Vectra C 2.0, 2.2	2002 ->				

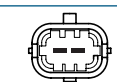


Reemplaza / Suitable:
G.M.
09118368
90532619
93179850
Man
51.27120.7038
Opel
6238095
6238109
6238050
RVI
7420513343
Volvo
20513343

L

L1
34,5

ohm
900



79094

FORD		FORD Cont.		MAZDA	
Cougar 2.0	1998-01	Ka 1.0, 1.3	1996-08	121 III 1.2	1996 ->
Escort '95 1.8	1995 ->	Maverick 2.0	2001 ->	121 III 1.3	1996 ->
Escort CLASSIC 1.6, 1.8	1198-00	Mondeo I 1.6, 1.8, 2.0	1993-96	121 III 1.8 D	1996 ->
Escort V 1.8	1992-92	Mondeo II 1.6, 1.8, 2.0	1996-00	Tribute 2.0i (USA)	2000 ->
Escort VI 1.6, 1.8	1992-95	Mondeo III 2.0	2000-07	Tribute 2.0i 4x4 (USA)	2000 ->
Escort VII	1995-99	Orion III 1.6, 1.8	1990-93		
Fiesta Furgon	1991 ->	Puma 1.4, 1.6, 1.7	1997 ->		
Fiesta III	1989-95	Transit 2.0, 2.4	2000-06		
Fiesta IV	1995-02	Tourneo Connect 1.8	2002 ->		
Fiesta V	2001 ->				
Focus	1998-04				

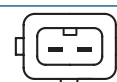


Reemplaza / Suitable:
Ford
6602998
6740816
6859705
928F6C315A1F
928F6C315AA
FSRZ-6C315-AA
Mazda
1E00 18 221
YF09 18 221

L

L1
37,5

ohm
400





79095

FORD		FORD Cont.	
Escort IV 1.1, 1.3	1985-90	Fiesta Van 1.3	1991-96
Escort V 1.3	1990-94	Fiesta III 1.0	1989-95
Escort V 1.4, Cabrio	1990-92	Fiesta III 1.1	1989-95
Escort V 1.6, Cabrio	1990-92	Fiesta III 1.3, 1.3 Cat.	1989-75
Escort V Nomade	1990-92	Fiesta III 1.4, 1.4 Cat.	1989-95
Escort VI 1.3, Cabrio	1992-95	Fiesta III 1.6, Turbo	1989-94
Escort VI 1.4, Cabrio	1992-95	Fiesta III 1.6 XR2i	1989-93
Escort VI Nomade	1992-95	Orion II 1.3	1985-90
Escort VII	1995-99	Orion III 1.3	1990-93
Escort '86 1.1, 1.3	1986-90	Orion III 1.4	1990-93
Escort '91 1.3, 1.4	1990-94	Orion III 1.6, 1.6i	1990-92
Escort '95 1.4	1995 ->	Sierra 1.6i	1989-93

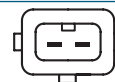


Reemplaza / Suitable:
Ford
6502253
6859702
89BF6C315AC

L

L1
40

ohm
290



79096

FIAT		OPEL		IVECO	
Croma 2500 TD	1989-96	Movano 2.8 DTI	1998-01	Daily I	1989-98
		RENAULT			
		Master I 2.5 TD	1989-98		
		Master II 2.8 dTI	1998-01		



Reemplaza / Suitable:
Bosch 0 281 002 093
Fiat 7721274
G.M. 9160445
Opel 4500145
Renault 7700 306 256

L
300

L1
40

ohm
750



79097

FIAT	
Ducato 2.5 TDI	1994-02
Ducato 2.8 TDI	1997-02



Reemplaza / Suitable:
Bosch 0281 002 108
Fiat 7788905

L
540

L1
40

ohm
930



79098

AUDI		AUDI Cont.		AUDI Cont.	
100 2.2 E Turbo quattro	1986-90	80 Avant 2.6, 2.8	1991-96	A6 Avant 2.6, quattro	1994-97
100 2.2 Turbo	1986-90	80 Avant RS2 quattro	1994-95	A6 Avant 2.8, quattro	1994-97
100 2.5 TDI	1990-94	90 2.0 20V	1989-91	A6 Avant S6 4.2 quattro	1994-97
100 2.6, quattro	1992-94	90 2.3 E 20V, quattro	1988-91	A6 Avant S6 Turbo quattro	1994-97
100 2.8 E, quattro	1990-94	A4 2.6, quattro	1995-00	A6 S6 4.2 quattro	1994-97
100 Avant 2.2 Turbo	1986-90	A4 2.8, quattro	1995-97	A6 S6 Turbo quattro	1994-97
100 Avant 2.5 TDI	1990-94	A4 Avant 2.6, quattro	1996-01	A8 2.8, quattro	1994-96
100 Avant 2.6, quattro	1992-94	A4 Avant 2.8, quattro	1996-96	CABRIOLET 2.6, 2.8	1992-00
100 Avant 2.8 E, quattro	1991-94	A6 2.5 TDI, quattro	1994-97	COUPE 2.3 20V, quattro	1988-96
200 2.2 Turbo	1985-91	A6 2.6, quattro	1994-97	COUPE 2.6, quattro	1992-96
80 2.6	1992-94	A6 2.8, quattro	1994-97	COUPE 2.8, quattro	1991-96
80 2.8, quattro	1991-94	A6 Avant 2.5 TDI, quattro	1994-97	COUPE S2 quattro	1990-96



Reemplaza / Suitable:
Volkswagen 034 905 381
034 905 381 A
035 905 381 B
078 905 375
078 905 381
078 905 381 A

L
680

L1
41

ohm
1000



79099

DAEWOO		MERCEDES BENZ Cont.		PUCH	
Korando 3.2	1999 ->	E 60 AMG	1994-95	G-Modell G 320	1994-97
Musso 3.2	1999 ->	G 320	1994-97	G-Modell G 36	1995 ->
MERCEDES BENZ		G 36 AMG	1995 ->	SSANGYONG	
C 220	1993-00	S 280	1993-98	Korando 3.2	1996 ->
C 280	1993-00	S 300 SE 2.8	1993-98	Korando Cabrio 3.2	1997 ->
C 36 AMG	1994-00	S 300 SE, SEL / S 320	1991-98	Musso 3.2	1996 ->
E 36 T AMG	1994-96	S 420	1993-98		
E 220. E 220 T	1993-95	S 400 SE, SEL / S 420	1991-98		
E 280. E 280 T	1993-95	S 500	1993-98		
E 320. E 320 T	1993-97	S 500 SE, SEL	1991-98		
E 420	1993-95	SL 280. SL 300. SL 320	1993-01		
E 500	1993-95	SL 500. SL 500 AMG	1989-01		



Reemplaza / Suitable:
Daewoo 0021539528
Mercedes 002 153 95 28

L

L1
24

ohm
1100



79100

CITROEN		PEUGEOT	
Saxo 1.4i VTS	1996-03	106 1.4i	1996 ->
Saxo 1.6i VTL, VTR	1996-03	106 1.6i	1996 ->
Saxo 1.6 VTS	2000-03	206 1.4 i	1998 ->
XSara 1.6i, Break	1997-00	306 1.6 SR	1994-00
XSara Coupe 1.6i	1998-00	306 1.6 Break	1997-00
		306 Cabrio 1.6i	1996-00
		306 Fastback 1.6	1993-00



Reemplaza / Suitable:
Citroën 96.266.356.80
PSA 1920.5V

L

L1
33

ohm
550





79101

CITROEN		PEUGEOT	
AX 10	1986-98	106 II 1.0i	1996 ->
AX 14	1987-97	106 ii 1.1i	1996 ->
Berlingo 1.1, 1.4	1996 ->	106 II 1.4i	1996 ->
Saxo	1996-03	106 II 1.6i	1996 ->
Xsara 1.4, 1.6	1997-05	106 II 1.6i S16	1996 ->
		206 1.1i, SW	1998 ->
		206 1.4i, SW	1998-02
		206 1.6i, SW	1998-00
		306 1.4 SL, Break	1994-02
		306 1.6 SR, Break	1994-00
		306 Cabrio 1.6	1996-00
		Partner 1.1, 1.4	1996 ->

Reemplaza / Suitable:
Citröen 96.234.238.80
PSA 1920.5T



L

L1
38,5

ohm
550



79102

Aislante azul / Blue colour

CITROEN		PEUGEOT	
Berlingo 1.4i	1996 ->	106 1.4i	1996 ->
Berlingo 1.4i Multispace	1997 ->	206 1.4i	1998 ->
Saxo 1.4i	1996-03	306 1.4i	1997-01
Xantia 2.0i 16V	1993-97	306 2.0i 16V	1993-01
XSara 1.4i	1997-05	405 2.0i 16V	1993-96
XSara 2.0i 16V	1998-05	405 2.0i Turbo	1993-96
ZX 2.0i 16V	1992-96	Partner 1.4i	1996 ->
		Ranch 1.4i	1996 ->

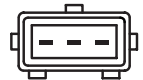
Reemplaza / Suitable:
Electricfil 144308
Citröen 9613173380
PSA 1920.L1



L

L1
28

Hall
Effect



79103

SEAT		VOLKSWAGEN	
Alhambra 2.0i	1996 ->	Corrado 2.0i	1993-95
Cordoba 1.6i, Vario	1996-99	Colf III 1.6i, Cabrio	1995-97
Cordoba 2.0i	1993-99	Golf III 2.0i, Syncro, Cabrio	1992-97
Cordoba 2.0i 16V	1996-99	Golf III 2.0 GTI 16V	1992-97
Ibiza II 1.6i	1996-99	Golf III Variant 1.6, 2.0	1994-99
Ibiza II 2.0i	1993-99	Golf IV Cabrio 1.6, 2.0	1998 ->
Ibiza II 2.0i 16V	1996-99	Passat 1.6i, Variant	1994-96
Toledo I 1.6, 2.0i 16V	1994-99	Passat 2.0i, Syncro, Variant	1990-96
		Passat 2.0i 16V	1994-96
		Polo 1.6i, Variant	1996-01
		Sharan 2.0i	1995 ->
		Vento 1.6, 2.0i	1992-98

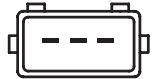
Reemplaza / Suitable:
Seat-VW 037 906 433 A
 037 906 433 B
 037 906 433 C



L
585

L1
24

Hall
Effect



79104

CITROEN		FIAT		PEUGEOT	
Evasion 2.0i 16V	1998-00	Ulysse 2.0i 16V	1998-00	306 1.8i 16V	1997-01
Xantia 1.8i 16V	1998-03	LANCIA		306 Break 1.8i 16V	1997-02
Xantia Break 1.8i 16V	1998-03	Zeta 2.0i 16V	1998-00	306 Cabrio 1.8i 16V	2000-02
				406 1.8i 16V	1996-00
				406 Break 1.8i 16V	1996-00
				806 2.0i 16V	1998-00

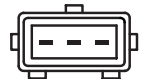
Reemplaza / Suitable:
Electricfil 144321
Citröen 96.296.843
Fiat 9629684380
PSA 1920.6T



L

L1
29

Hall
Effect



NEW 79105

ALFA ROMEO		FIAT		LANCIA	
145/146 1.4 i.e. 16V T.S.	1996-01	Barchetta 1.8 16V	1995-98	Dedra 1.8 16V LE, GT, SW	1996-99
145/146 1.6 i.e. 16V T.S.	1996-01	Brava 1.8 GT 16V	1995-01	Delta II 1.8 i.e. 16V, GT	1996-99
145/146 1.8 i.e. 16V T.S.	1996-98	Bravo 1.8 GT	1995-01	Lybra 1.8 16V, SW	1999 ->
145/146 2.0 16V T.S.	1995-01	Bravo 2.0 HGT 20V	1995-98	Kappa 2.0 20V, Coupe, SW	1994-01
155 1.6 16V T.S.	1996-97	Coupe 1.8 16V	1996-00	Kappa 2.0 20V Turbo	1998-01
155 1.7 T.S. 16V	1996-97	Coupe 2.0 20V, Turbo	1996-98	Kappa 2.4 20V, Coupe, SW	1994-01
155 2.0 T.S. 16V	1995-97	Marea 1.8 115 16V	1996-99		
156 1.6 16V T.S., SW	1997-05	Marea 2.0 150 20V	1996-99		
GTV 2.0 T.S. 16V	1995-98	Punto 1.8 130 HGT	1999 ->		
Spider 2.0 T.S. 16V	1995-05	Stilo 1.8 16V, SW	2002 ->		

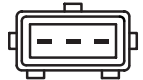
Reemplaza / Suitable:
Alfa Romeo 60811201
Fiat 7777344
 46522739



L
420

L1

Hall
Effect



NEW 79106

ALFA ROMEO		FIAT Cont.		OPEL	
145 1.9 JTD	1999-01	Idea 1.9 JTD	2004 ->	Astra H 1.9 CDTI	2004 ->
146 1.9	1994-01	Marea 1.9, 2.4	1996 ->	Signum 1.9 CDTI	2004 ->
147 1.9	2001 ->	Multipia 1.9 JTD	1999 ->	Vectra C 1.9 CDTI	2004 ->
156 1.9 JTD, 2.4 JTD	1997-06	Punto 1.9 JTD	1999 ->	Zafira 1.9 CDTI	2005 ->
159 1.9 JTD 8V	2005 ->	Sedici 1.9 D Multijet	2006 ->		
166 2.4 JTD	1998 ->	Stilo 1.9	2001 ->	SAAB	
		Strada 1.9 JTD	2003 ->	9-3 1.9 TiD	2004 ->
				SUZUKI	
				SX4 1.6 DDIS, 1.9 DDIS	2006 ->
		LANCIA			
		Kappa 2.4 JTD	1998-01		
		Lybra 1.9 JTD, 2.4 JTD	1999 ->		
		Musa 1.9 D Multijet	2004 ->		
		Thesis 2.4 JTD	2002 ->		

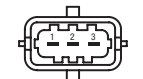
Reemplaza / Suitable:
Alfa Romeo 46481640
Fiat 46432103
 46481640
 60814770
 93179513
G.M. 6235667
Opel 93 179 513
Saab 3322079JU0000
Suzuki



L
770

L1

Hall
Effect





NEW 79107

ALFA ROMEO		ALFA ROMEO Cont.		ALFA ROMEO Cont.	
145 1.4 i.e. 16V T.S.	1996-01	156 1.8 16V T.SPARK	1997-06	Spider 2.0 T.SPARK 16V	1995-05
145 1.6 i.e. 16V T.S.	1996-01	156 2.0 16V T.SPARK	1997-02		
145 1.8 i.e. 16V	1998-01	156 2.0 JTS	2002-05		
145 2.0 16V Quadrifoglio	1998-01	156 Sportwagon 2.0 JTS	2002-06		
146 1.4 i.e. 16V T.S.	1996-01	166 2.0 T.SPARK	1998 ->		
146 1.6 i.e. 16V T.S.	1996-01	GT 1.8 TS	2003 ->		
146 1.8 i.e. 16V T.S.	1998-01	GT 2.0 JTS	2003 ->		
146 2.0 16V Quadrifoglio	1998-01	GTV 1.8 16V	1998 ->		
147 1.6 16V T.SPARK	2001 ->	GTV 2.0 JTS	2003 ->		
147 1.6 16V T.SPARK ECO	2001 ->	GTV 2.0 T.SPARK 16V	1995 ->		
147 2.0 16V T.SPARK	2001 ->	Spider 1.8 16V	1998-05		
156 1.6 16V T.SPARK	1997-06	Spider 2.0 JTS	2003-05		

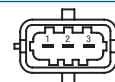


Reemplaza / Suitable:
Alfa Romeo 46469912
Bosch 0 232 101 035

L
725

L1

Hall
Effect



NEW 79108

FIAT		LANCIA	
Bravo 2.0 HGT 20V	1998-01	Kappa 2.0 20V	1996-01
Coupe 2.0 20V	1998-00	Kappa 2.4 20V	1994-01
Marea 2.0 150 20V	2001 ->	Kappa Coupe 2.4 20V	1996-01
Marea 2.0 155 20V	1999-01	Kappa SW 2.0 20V	1996-01
Stilo 2.4 20V	2001 ->	Kappa SW 2.4 20V	1996-01
		Lybra 2.0 20V	1999 ->
		Lybra SW 2.0 20V	1999 ->
		Thesis 2.0 Turbo	2002 ->
		Thesis 2.4	2002 ->

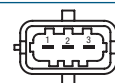


Reemplaza / Suitable:
Bosch 0 232 101 036
Fiat 46520138

L
500

L1

Hall
Effect



NEW 79109

FIAT		LANCIA	
Brava 1.6 16V	1995-01	Delta II 1.6 i.e.	1996-99
Bravo 1.6 16V	1995-01	Lybra 1.6 16V	1999 ->
Doblo 1.6 16V	2001 ->		
Doblo Cargo 1.6 16V	2002 ->		
Marea 1.6 100 16V	1996 ->		
Marea Weekend 1.6 16V	1996 ->		
Multipla 1.6 16V	1999 ->		
Palio 1.6 16V	1996 ->		
Palio Weekend 1.6 16V	1996 ->		
Siena 1.6 16V	1998 ->		
Stilo 1.6 16V	2001 ->		
Stilo Wagon 1.6 16V	2003 ->		



Reemplaza / Suitable:
Fiat 46440840
46454057
46462120
46481306
7760493

L
430

L1

Hall
Effect



NEW 79112

AUDI		SKODA		VOLKSWAGEN	
A3 1.6	1996-01	Fabia 2.0, Kombi	2000 ->	Bora 1.6, 2.0, Variant	1999-05
A4 1.6, Avant	1995-01	Octavia 1.6, Kombi	1997 ->	Caddy III 2.0, Van	2006 ->
		Octavia 2.0, 4x4, Kombi	1999 ->	Golf IV 1.6, 2.0, Variant	1997-05
		SuperB 2.0	2002 ->	Golf V 2.0	1999 ->
				Multivan 2.0	2004 ->
				New Beetle 1.6, 2.0	1999 ->
				Passat 1.6, 2.0, Variant	1997-05
				Polo 1.8 GTI	2005 ->
				Polo 100 1.6, Classic, Variant	1996-01
				Sharan 2.0	1995 ->
				Touran 2.0 EcoFuel	2006 ->
				Transporter T5 2.0	2003 ->

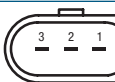


Reemplaza / Suitable:
Bosch 0 232 101 031
0 232 101 032
0 232 101 038
0 232 101 039
VW 06A 905 161 B
06A 905 161 C

L

L1

Hall
Effect



79113

OPEL	
Astra F 1.8i	1991-94
Astra F Cabrio 1.8i 16V	1994-01
Astra F 2.0i 16V	1991-98
Astra G 2.0 16V	1998-05
Calibra A 2.0i 16V, 4x4	1994-97
Omega B 2.0i 16V	1994-99
Vectra A 2.0i 16V	1994-95
Vectra B 1.8i 16V	1995-00
Vectra B 2.0i 16V	1995-00
Vectra B 2.2 i	2000-02



Reemplaza / Suitable:
G.M. 90506103
9174621
Opel 1238228
6238377

L
840

L1
24

Hall
Effect



79114

CITROEN		FIAT		PEUGEOT	
C8 2.0	2002 ->	Scudo 2.0 JTD	2000 ->	307 2.0	2003 ->
C8 2.0 HDI	2002 ->	Ulysse 2.0 JTD	1999-02	806 2.0 HDI	1999-02
C8 2.2	2002 ->	Ulysse 2.2	2002 ->	807 2.0	2002 ->
C8 2.2 HDI	2002 ->			807 2.2	2002 ->
Evasion 2.0i 16V	2000-02	Zeta 2.0 JTD	1999-02	Expert 1.9	1998 ->
Evasion 2.0 HDI	1999-02	Phedra 2.0	2002 ->	Expert 2.0i 16V	2000 ->
Jumpy 1.9	2000 ->	Phedra 2.2	2002 ->	Expert 2.0 HDI	1999 ->
Jumpy 2.0 HDI	2000 ->			Expert 2.0 HDI 16V	2000 ->
Jumpy 2.0i 16V	2000 ->				

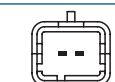


Reemplaza / Suitable:
Citroen 96.357.329
Fiat 9635732980
Peugeot 1920.9C

L

L1
24

ohm
400





79115

Aislante gris / Grey colour

AUDI		SEAT		VOLKSWAGEN	
A2 1.2 TDI	2001-05	Arosa 1.4 TDI	2000-04	Fox 1.4 TDI	2005 ->
A2 1.4 TDI	2000-05	Cordoba 1.4 TDI	2002 ->	Lupo 1.2 TDI	1999-05
		Ibiza IV 1.4 TDI	2002-05	Lupo 1.4 TDI	1999-05
		SKODA		Polo 1.4 TDI	1999 ->
		Fabia 1.4 TDI	2003-08		
		Praktik 1.4 TDI	2006 ->		
		Roomster 1.4 TDI	2007 ->		

Reemplaza / Suitable:
 Seat-VW 045 907 319 A
 045 957 147
 045 957 147 C

 L
610

 L1
46

 ohm
500


79116

CITROËN		LANCIA		SUZUKI	
Berlingo 2.0 HDI 90	1999 ->	Zeta 2.0	2000-02	Vitara 2.0 TDI	1995-98
C35 Autobus 2.2	1973-80	PEUGEOT			
C5 1.8, 2.0 HDI	2001-04	206 2.0	1999 ->		
Evasion 2.0	2000-02	307 2.0	2000 ->		
Jumper 2.0, 2.2	2002 ->	406 1.8, 2.0	1998-04		
Jumpy 2.0	2000 ->	607 2.2	2000 ->		
XSara 2.0	1999-05	806 2.0	2000-02		
XSara Picasso 1.8, 2.0	1999 ->	Boxer 2.0, 2.2	2001 ->		
FIAT		Expert 2.0	2000 ->		
Ducato 2.0	2001 ->	Partner 2.0	2000 ->		
Scudo 2.0	2000 ->				
Ulysse 2.0	2000-02				

Reemplaza / Suitable:
 Citroën 96.324.005
 Fiat 9632400580
 Peugeot 1920.7N
 Suzuki 3546686eA0000

 L

 L1
24

 ohm
400


79117

CITROËN		FIAT		PEUGEOT	
Berlingo 2.0 HDI 90	1999 ->	Ulysse 2.0, 3.0	2002 ->	607 3.0 v6	2000 ->
C4 2.0 16V	2004 ->	LANCIA		807 2.0 v6	2005 ->
C5 1.8 16V	2001 ->	Phedra 2.0, 3.0	2002 ->	807 3.0 v6	2002 ->
C5 2.0 16V	2001 ->	PEUGEOT		Expert 2.0 16v	2007 ->
C5 2.2 HDi	2001 ->	206 2.0	1999 ->	Partner 2.0 HDI	2000 ->
C5 3.0 V6	2004 ->	307 2.0	2000 ->	SUZUKI	
C6 3.0 V6	2005 ->	407 1.8	2004 ->	Grand Vitara 2.0 HDI	2001 ->
C8 2.0, 3.0	2002 ->	407 2.0	2004 ->		
Jumpy 2.0i	2007 ->	407 2.2	2004 ->		
XSara 2.0	2000-05	407 3.0	2004 ->		
XSara Picasso 2.0	1999 ->	607 2.0	2000 ->		
		607 2.2	2000 ->		

Reemplaza / Suitable:
 Citroën 96.406.277
 96.468.233
 Fiat 9640627780
 9646823380
 Peugeot 1920.EN
 1920.FP
 Suzuki 3322067601000

 L

 L1
24

 ohm
470


79118

CITROËN		FIAT		PEUGEOT	
Berlingo 1.1	1996 ->	Fiorino Furgon 1.4	2008 ->	1007 1.4, 1.6	2005 ->
Berlingo 1.4	1996 ->	Qubo 1.4	2008 ->	106 II 1.1, 1.4, 1.6	1996 ->
C2 1.1, 1.4, 1.6	2003 ->			205 II 1.4	1988-98
C3 1.1, 1.4, 1.6	2002 ->			206 1.1, 1.4, 1.6	1998 ->
C4 1.4, 1.6	2004 ->			207 1.4, 1.6	2006 ->
Nemo 1.4	2009 ->			306 1.4, 1.6	1993 ->
Saxo 1.0, 1.1	1996-03			307 1.4, 1.6	2000 ->
Saxo 1.4, 1.6	1996-03			Bipper 1.4	2008 ->
XSara 1.4, 1.6	1997-05			Partner 1.1, 1.4	1996 ->

Reemplaza / Suitable:
 Citroën 96.399.998
 Fiat 9837465980
 Peugeot 1920.AW

 L

 L1
38

 ohm
500


79119

CITROËN		PEUGEOT	
C3 1.4, 1.6	2002 ->	106 1.4, 1.6	1996 ->
C4 1.6	2004 ->	206 1.4i	1998 ->
Saxo 1.4 VTS	1996-03	206 1.6i 16V	2000 ->
XSara 1.6i 16V	2000 ->	206 CC 1.6 16V	2000 ->
XSara Break 1.6 16V	2000-05	306 1.6i	2000-01
XSara Coupe 1.6 16V	2000-05	306 Break 1.6i	2000-02
XSara Picasso 1.6	1999 ->	306 Cabrio 1.6i	2000-02
		307 1.6	2000 ->
		307 Break 1.6	2002 ->
		307 SW 1.6	2002 ->

Reemplaza / Suitable:
 Citroën 96.399.999
 96.374.660.30
 Peugeot 1920.AV

 L

 L1
32,5

 ohm
500


79120

CITROËN		PEUGEOT		RENAULT	
Berlingo 1.9 D	1998 ->	306 1.9 D, Break	1998-01	Laguna 3.0 V6 24V	2001 ->
Berlingo 2.0 HDI 90	2000 ->	306 2.0 HDI 90, Break	1999-02	Laguna Grandtour 3.0 V6	2001 ->
C5 2.0 HDI	2000 ->	406 2.0 HDI 90, Break	1999-04		
C5 2.2 HDI, Break	2001-04	406 2.0 HDI 110	1998-01		
C5 3.0 V6, Break	2001-04	406 2.2 HDI, Coupe	2000-04		
XSara 2.0 HDI 90	1999-05	406 3.0 V6, Break	2000-04		
XSara 2.0 HDI 109	2001-05	406 Coupe 3.0 V6	2000-04		
XSara Break 2.0 HDI 90	1999-05	607 2.0 HDI	2000 ->		
XSara 2.0 HDI 109	2001-05	607 2.2 HDI	2000 ->		
XSara Coupe 2.0 HDI 90	1999-05	607 3.0 V6 24V	2000 ->		
XSara Coupe 2.0 HDI 109	2001-05	Partner 1.9 D	1999 ->		
		Partner 2.0 HDI	2000 ->		

Reemplaza / Suitable:
 Citroën 96.328.897
 1920.8S
 Renault 96 32 889 780

 L

 L1
24

 ohm
400




79122

VOLVO		VOLVO Cont.	
S40 1.6	1993-03	V40 1.6	1999-04
S40 1.8 115 cv.	1995-99	V40 1.8 Automatic	1995-99
S40 1.8 122 cv.	1999-03	V40 1.9 T4	1997-00
S40 1.8 Automatics	1995-03	V40 2.0 T 160 cv.	1997-00
S40 1.9 T4	1997-00	V40 2.0 T 163 cv.	2001-04
S40 2.0 136 cv.	1995-03	V40 2.0 T 165 cv.	1999-01
S40 2.0 T 160 cv.	1997-00	V40 2.0 T4	2000-04
S40 2.0 T 163 cv.	2001-03		
S40 2.0 T4 200 cv.	2000-03		

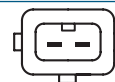


Reemplaza / Suitable:
Volvo 1270603

L
970

L1
32,3

ohm
300



79123

VOLVO	
S40 1.8 115 cv.	1995-99
S40 1.8 122 cv.	1999-03
S40 1.9 T4	1997-00
S40 2.0 136 cv.	1995-03
S40 2.0 140 cv.	1995-99
S40 2.0 T 160 cv.	1997-00
V40 1.8 115 cv.	1995-99
V40 1.9 T4	1997-00
V40 2.0 140 cv.	1995-99
V40 2.0 T 160 cv.	1997-00
V40 2.0 T 165 cv.	2000-01

Caja de cambios Automática AW50-42.
Automatic gear box type AW50-42.
Boite de vitesse automatique AW5042.



Reemplaza / Suitable:
Volvo 30613400

L
280

L1
28

ohm
430



79124

ALFA ROMEO		LANCIA Cont.		VOLVO Cont.	
Alfa 156 1.8 16V TS	2000-05	Lybra SW 2.0 20V	2000 ->	V40 2.0 T 165 cv.	2000-01
Alfa 156 1.9 JTD	2001-05	VOLVO			
Alfa 156 1.9 JTD 16V	2003-05	S40 1.8 115 cv.	1995-99		
Alfa 156 2.0 16V TS	2000-05	S40 1.8 122 cv.	1999-03		
Alfa 156 2.0 JTS	2002-05	S40 1.9 T4	1997-00		
Alfa 156 2.4 JTD	2002-05	S40 2.0 136 cv.	1995-03		
Alfa 156 2.6 V6	2000-05	S40 2.0 140 cv.	1995-99		
Alfa 156 3.2 GTA	2002-05	S40 2.0 T 160 cv.	1997-00		
LANCIA		V40 1.8 115 cv.	1995-99		
Lybra 1.8 16V	1999 ->	V40 1.9 T4	1997-00		
Lybra 2.0 20V	2000 ->	V40 2.0 140 cv.	1995-99		
Lybra SW 1.8 16V	1999 ->	V40 2.0 T 160 cv.	1997-00		

Tipo de caja de cambios AW50-42.
Gear box type AW50-42.
Type de boite de vitesse AW50-42.



Reemplaza / Suitable:
Fiat 9949501
Volvo 30865935

L
250

L1
28

ohm
430



79125

VOLVO		VOLVO	
850 2.0, 2.0 Turbo	1991-96	S70 2.0, 2.0 Turbo	1997-00
850 2.3 T5, 2.3 T5-R	1993-96	S70 2.3 T-5	1997-00
850 2.5	1991-96	S70 2.4, 2.4 Turbo	1997-00
850 2.5 TDI	1995-96	S70 2.5, 2.Bifuel	1997-00
C70 Cabrio 2.0, 2.0 T	1998-05	S70 2.5 TDI -> Ch.596595	1997-00
C70 Cabrio 2.3 T-5, 2.5 T	1998-05	V70 2.0, 2.0 Turbo	1997-00
C70 Coupe 2.0, 2.0 T	1997-02	V70 2.3 T-5, T-5 AWD	1997-00
C70 Coupe 2.3 T-5, 2.5 T	1998-05	V70 2.4, 2.4 Turbo	1997-00
		V70 2.5, 2.Bifuel	1997-00
		V70 2.5 TDI -> Ch.596595	1997-00

Tipo de caja de cambios AW50-42.
Gear box type AW50-42.
Type de boite de vitesse AW50-42.

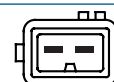


Reemplaza / Suitable:
Volvo 9168039

L
180

L1
28

ohm
430



79126

VOLVO		VOLVO Cont.	
850 2.0, 2.0 Turbo	1991-96	S70 2.0, 2.0 Turbo	1997-00
850 2.3 T5, 2.3 T5-R	1993-96	S70 2.3 T-5	1997-00
850 2.5	1991-96	S70 2.4, 2.4 Turbo	1997-00
850 2.5 TDI	1995-96	S70 2.5, 2.Bifuel	1997-00
C70 Cabrio 2.0, 2.0 T	1997-02	S70 2.5 TDI -> Ch.596595	1997-00
C70 Cabrio 2.3 T-5, 2.5 T	1997-02	V70 2.0, 2.0 Turbo	1997-00
C70 Coupe 2.0, 2.0 T	1997-05	V70 2.3 T-5, T-5 AWD	1997 ->
C70 Coupe 2.3 T-5, 2.5 T	1997-05	V70 2.4, 2.4 Turbo	1997 ->
		V70 2.5, 2.Bifuel	1997-00
		V70 2.5 TDI -> Ch.596595	1997-00

Caja de cambios Automática AW50-42.
Automatic gear box type AW50-42.
Boite de vitesse automatique AW5042.



Reemplaza / Suitable:
Volvo 3515266

L
450

L1
28

ohm
430



79127

KIA	
Carens II 1.6	2002 ->
Sephia 1.6i	1995 ->
Sephia Sedan 1.6i	1993 ->
Shuma II 1.6i	2001-04
Spectra 1.6i 16V	2000 ->



Reemplaza / Suitable:
Kia OK2N1 18891

L
230

L1
24

ohm
900





79128

FIAT		OPEL Cont.		VAUXHALL	
Stilo 1.6 16V	2005 ->	Vectra C 1.6 16V	2004 ->	Astra MK IV 1.4 16V	1998 ->
OPEL		Zafira 1.6 105 cv.	2005 ->	Astra MK IV 1.6 62 kw.	2000 ->
Astra G 1.4 16V	1998-05	Zafira 1.6 16V 101 cv.	1999 ->	Astra MK IV 1.6 16V	1998 ->
Astra G 1.6 103 cv.	2003-05			Astra Van MK IV 1.6i	2000 ->
Astra G 1.6 84 cv.	2000-05			Corsa MK II 1.4 16V	2000 ->
Astra G 1.6 16V	1998-05			Vectra 1.6i 16V	1996 ->
Astra H 1.6, GTC, Wagon	2004 ->				
Combo 1.6	2001 ->				
Corsa C 1.4	2000 ->				
Meriva 1.6, 1.6 16V	2003 ->				
Vectra B 1.6i 16V	1996-02				
Vectra C 1.6, GTS	2006 ->				

Reemplaza / Suitable:
Fiat 71739726
G.M. 10456604
Opel 1238938



L

L1
39

ohm
2300



79129

AUDI		SKODA		VOLKSWAGEN Cont.	
A2 1.4	2000-05	Fabia 1.4 16V	2000-07	Golf V 1.4 16V	2003 ->
SEAT		Fabia Combi 1.4 16V	2000 ->	Golf VI 1.4	2008 ->
Altea 1.4	2006 ->	Octavia 1.4	2000 ->	Golf Plus 1.4 16V	2005 ->
Arosa 1.4i 16V	1998-05	Octavia Combi 1.4	2000 ->	Lupo 1.4 16V	1998-05
Cordoba 1.4i 16V	2000 ->	Roomster 1.4	2006 ->	New Beetle 1.4, Cabrio	2001 ->
Cordoba Vario 1.4i 16V	1999-02	Praktik 1.4	2007 ->	Polo 1.4i 16V	1999 ->
Ibiza III 1.4i 16V	1999-02	VOLKSWAGEN		Polo 120 1.6 GTi 16V	1998-99
Ibiza IV 1.4	2008 ->	Bora 1.4i 16V, Variant	2000-05	Polo Classic 75 1.4 16V	1999-01
Ibiza V 1.4	2006 ->	Bora 1.6i 16V, Variant	2000-05	Polo Variant 1.4 16V	1999-01
Inca 1.4	2000-03	Caddy II 1.4i	2000-04	Touareg 2.5 R5 TDI	2003-10
Leon 1.4, 1.6 16V	2000 ->	Caddy III 1.4	2004 ->	Touareg 3.0 V6 TDI	2004-10
Toledo II 1.4, 1.6 16V	1999-06	Golf IV 1.4, 1.6 16V	1997-03		

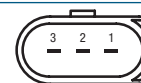
Reemplaza / Suitable:
Audi 036 907 601 A
Seat-VW 036 907 601
036 907 601 B
036 907 601 C
036 907 601 D
Skoda 036 907 601 E



L

L1
24

Hall
Effect



79130

SKODA	
Fabia 1.0	1999-02
Fabia 1.4 60 cv.	1999-08
Fabia 1.4 68 cv.	1999-08
Fabia Combi 1.4	2000-07
Fabia Sedan 1.4	2000-07
Octavia 1.4 60 cv.	1999 ->

Reemplaza / Suitable:
Skoda 047 906 433



L

L1
15,3

ohm
400



79131

SEAT		SKODA		VOLKSWAGEN	
Cordoba 1.9 SDI	2002 ->	Fabia 1.9 SDI	1999-08	Bora 1.9 TDI (AHF, ALH)	1998-01
Ibiza III 1.9 SDI	1999-02	Fabia Combi 1.9 SDI	2000-07	Polo 1.9 SDI	2001 ->
Ibiza IV 1.9 SDI	2002-05	Octavia 1.9 SDI	1997 ->	Polo Sedan 1.9 SDI	2002 ->
Leon 1.9 TDI (AHF, ALH)	1999-06				
Toledo 1.9 TDI (AFH, ALH)	1999-06				

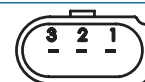
Reemplaza / Suitable:
Seat-VW 038 907 319 A
038 957 147
038 957 147 C



L
535

L1
46

ohm
1400



79132

SEAT		SKODA		VOLKSWAGEN	
Alhambra 1.9 TDI	2002 ->	Fabia 1.9 TDI	2000-08	Polo 1.9 TDI	2001 ->
Cordoba 1.9 TDI	2002 ->	Fabia Combi 1.9 TDI	2000-07	Polo Classic 1.9 TDI	2002 ->
Ibiza IV 1.9 TDI	2002 ->	Octavia Combi 1.9 TDI	2000 ->	Sharan 1.9 TDI	2002 ->

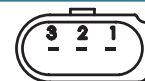
Reemplaza / Suitable:
Seat-VW 038 957 147 B



L
555

L1
46

ohm
500



79133

FORD		FORD Cont.		VOLVO	
C-Max 1.6	2007 ->	Fusion 1.4 80 cv.	2002 ->	C 30 1.6	2006 ->
Fiesta IV 1.25i 16V	2000-02	Fusion 1.6 100 cv.	2002 ->	S 40 II 1.6	2005 ->
Fiesta V 1.25 16V	2002 ->	KA 1.3i	2002-08	V 50 1.6	2005 ->
Fiesta V 1.3 69 cv.	2002 ->	KA 1.6i	2003-08		
Fiesta V 1.4 16V	2002 ->	Street KA 1.6 95 cv.	2003-05		
Fiesta V 1.6 16V	2002 ->	MAZDA			
Fiesta VI 1.25	2008 ->	2 1.25	2003->		
Fiesta VI 1.4	2008 ->	2 1.4	2003 ->		
Focus C-Max 1.6 100 cv.	2003-07	2 1.6	2003 ->		
Focus C-Max 1.6 Ti 115 cv.	2004-07				
Focus II 1.4, Turnier	2004 ->				
Focus II 1.6, Turnier. 100 cv.	2004 ->				

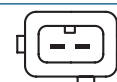
Reemplaza / Suitable:
Ford 1111037
YS6A12K073AB
Mazda C201-18-230
Volvo 30711663



L

L1
33,5

ohm
500





79134

FORD		FORD Cont.		FORD Cont.	
C-MAX 1.6	2007 ->	Focus II 1.4	2004 ->	KA 1.3, 1.6 i	2003-08
Fiesta IV 1.25i 16V	2000-02	Focus II 1.6	2004 ->	Mondeo IV 1.6	2007 ->
Fiesta IV 1.4i 16V	2000-02	Focus II 1.6 Ti	2004 ->	Street KA 1.6	2003-05
Fiesta IV 1.6 16V Sport	2000-02	Focus II Stufenheck 1.4	2005 ->	MAZDA	
Fiesta V 1.3 60 cv.	2002 ->	Focus II Stufenheck 1.6	2005 ->	2 1.25	2003 ->
Fiesta V 1.4 16V 80 cv.	2002 ->	Focus II Stufenheck 1.6 Ti	2005 ->	2 1.4	2003 ->
Fiesta V 1.6 16V 100 cv.	2002 ->	Focus II Turnier 1.4	2004 ->	2 1.6	2003 ->
Fiesta VI 1.25	2008 ->	Focus II Turnier 1.6	2004 ->	VOLVO	
Fiesta VI 1.4	2008 ->	Focus II Turnier 1.6 Ti	2004 ->	C 30 1.6	2006 ->
Fiesta VI 1.6	2008 ->	Fusion 1.25	2004 ->	S 40 1.6	2005 ->
Focus C-MAX 1.6	2003-07	Fusion 1.4	2002 ->	V 50 1.6	2005 ->
Focus C-MAX 1.6 Ti	2004-07	Fusion 1.6	2002 ->		

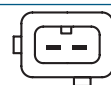


Reemplaza / Suitable:
Ford 1110834
 YS6AGC315AB
Mazda C201-18-221
Volvo 30711660

L

L1
37,5

ohm
400



79135

CITROEN		PEUGEOT	
Berlingo 1.6i 16V	2000 ->	307 1.6 16V	2000 ->
C4 1.6 16V	2004 ->	307 Break 1.6 16V	2002 ->
XSara 2.0 HDI 90	1999-05	307 CC 1.6 16V	2005 ->
XSara Break 2.0 HDI 90	1999-05	307 SW 1.6 16V	2002 ->
XSara Coupe 2.0 HDI 90	1999-05	406 2.2	2000-04
XSara Picasso 1.6i	1999 ->	406 Break 2.2	2000-04
		607 2.0i 16V	2000 ->
		607 2.2i 16V	2000 ->
		Partner 1.6i 16V	2001 ->
		Partner Furgon 1.6	2008 ->
		Partner Tepee 1.6	2008 ->



Reemplaza / Suitable:
Citroen 96.334.757.80
Peugeot 1920.7P

L

L1
24

ohm
400



79136

FORD		FORD Cont.	
C-MAX 1.6 TDCi	2007 ->	Focus II 1.6	2004 ->
C-MAX 1.8 TDCi	2007 ->	Focus II 1.8	2005 ->
C-MAX 2.0 TDCi	2007 ->	Focus II 2.0	2004 ->
Focus 1.4 16V	1998-04	Focus II 2.5	2005 ->
Focus 1.6 16V	1998-04	Focus RS	2002-04
Focus 1.8 16V	1998-04	Focus ST170	2002-04
Focus 1.8 Di, TDDi	1999-04	Focus C-Max 1.6	2003-07
Focus 1.8 TDCi 100 cv.	2002-04	Focus C-Max 1.8	2003-07
Focus 1.8 TDCi 115 cv.	2001-04	Focus C-Max 2.0	2003-07
Focus 1.8 Turbo Di, TDDi	1998-04		
Focus 2.0 16V	1998-04		
Focus II 1.4	2004 ->		

Tipo de caja de cambios 4F27E.
 Gear box type 4F27E.
 Type boîte de vitesse 4F27E.



Reemplaza / Suitable:
Ford 3043996
 XS4P7M101AB
 4617388
 4900624
 554P-7M101-AA
 854P-7M101-AA

L

L1
27

ohm
350



79137

OPEL		VAUXHALL	
Astra F 1.4i 16V	1996-98	Astra MKIII 1.4i 16V	1996-98
Astra F 1.6i 16V	1994-98	Astra MKIII 1.6i 16V	1994-98
Astra G 1.4 16V	1998-05	Astra MKIV 1.4 16V	1998-05
Astra G 1.6 16V	1998-05	Astra MKIV 1.6 16V	1998-05
Corsa B 1.4i 16V	1994-00	Corsa 1.4i 16V	1994-00
Corsa B 1.6 GSi 16V	1993-00	Corsa 1.6 GSi 16V	1993-00
Corsa B 1.6i 16V	1994-00	Corsa 1.6i 16V	1994-00
Tigra 1.4 16V	1994-00	Tigra 1.4 16V	1994-00
Tigra 1.6 16V	1994-98	Tigra 1.6 16V	1994-98
Vectra B 1.6i 16V	1996-02	Vectra B 1.6i 16V	1996-02
Zafira 1.6 16V	1999-05	Zafira 1.6 16V	1999-05



Reemplaza / Suitable:
G.M. 90412795
Opel 6238000

L
590

L1
14,5

Hall
Effect



79139

OPEL	
Astra G 1.7 DTI 16V	2000-05
Astra G Wagon 1.7 DTI	2000-05
Combo 1.7 DI 16V	2000 ->
Combo 1.7 DTI 16V	2000 ->
Corsa C 1.7 DI	2000 ->
Corsa C 1.7 DTI	2000 ->
Corsa C Van 1.7 DI 16V	2000 ->
Corsa C Van 1.7 DTI 16V	2000 ->
Mervia 1.7 DTI	2003 ->

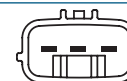


Reemplaza / Suitable:
G.M. 97180388
Opel 6238153

L

L1
26,7

Hall
Effect



79140

MITSUBISHI		SMART	
Colt VI 1.1	2004 ->	City Coupe 0.6	1998-04
Colt VI 1.3	2004 ->	City Coupe 0.8 CDI	1999-04
Colt VI 1.5	2004 ->	Cabrio 0.6	2000-04
		Cabrio 0.7	2003-04
		Cabrio 0.8 CDI	2001-04
		City-Coupe 0.7	2003-04
		Crossblade 0.6	2002 ->
		Fortwo 0.7	2004 ->
		Fortwo 0.8	2004 ->
		Roadster 0.7	2003 ->

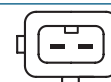


Reemplaza / Suitable:
Mitsubishi MN-902313
Smart 0003228V002
 0015145V00100000

L

L1
34

ohm
750





79142

AUDI		SEAT Cont.		VOLKSWAGEN Cont.	
A2 1.6 FSI	2002-05	Inca 1.4i	1995-03	Caddy 1.4	1995-04
A3 1.2 TSI	2010 ->	Leon TSI	1999 ->	Eos	2006 ->
A3 1.4 TFSI	2007 ->	Toledo II 1.4	1999-06	Fox 1.2, 1.4	2005 ->
A3 1.6 FSI	2003 ->	SKODA		Golf IV, Plus, V	2002 ->
A3 3.2 V6	2003 ->	Fabia 1.2, 1.6	2001 ->	Jetta III 1.4 TSI, 1.6 FSI	2005 ->
Q7 3.6 FSI	2006 ->	Octavia 1.4 TSI, 1.6 FSI	2004 ->	Lupo 1.0, 1.4 FSI	1998-05
TT 3.2 V6	2006 ->	Praktik 1.2	2007 ->	Passat	2005 ->
SEAT					
Altea 1.4 TSI	2007 ->	Roomster 1.2, 1.6	2006 ->	Polo	1995 ->
Arosa 1.0, 1.4	1995-03	Superb 1.4 TSI, 3.6 V6	2008 ->	Scirocco 1.4 TSI	2008 ->
Cordoba	1999 ->	Yeti 1.2 TSI	2009 ->	Tiguan 1.4 TSI	2007 ->
Ibiza III, IV, V	1999 ->	VOLKSWAGEN		Touareg 3.6 V6 FSI	2006-10
		Bora 1.4, 1.6	2000-05	Touran 1.4, 1.6 FSI	2003 ->



Reemplaza / Suitable:
Audi-VW
 030 907 601 C
 030 907 601 D
 030 907 601 E
 03D 907 601
 090 307 601 E

L	L1	Hall	
---	24	Effect	

79143

FORD		FORD Cont.	
Escort IV 1.4	1986-90	Orion II 1.4	1985-90
Escort IV 1.6	1989-90	Orion II 1.4 KAT	1987-90
Escort IV 1.6 i	1986-90	Orion II 1.6 i	1985-90
Escort IV 1.6 Turbo RS	1986-90	Orion II 1.6 i KAT	1986-90
Escort IV Cabriolet 1.4	1986-90	Scorpio I Kombi 2.0 i	1991-94
Escort IV Cabriolet 1.6 i	1986-90	Scorpio I Sedan 2.0 i	1989-94
Escort IV Kombi 1.4	1986-90	Scorpio I 2.0i	1989-94
Escort IV Kombi 1.6 i	1986-90	Sierra 1.6i	1989-93
Fiesta III 1.4i	1989-95	Sierra Van 1.6i	1990-93
Fiesta III 1.6i	1989-94		
Fiesta III 1.6 Turbo	1990-92		
Fiesta III 1.6 XR2i	1989-94		



Reemplaza / Suitable:
Ford
 6502252
 6859701
 88WF6C315AC
 88WF6C315AD

L	L1	ohm	
---	52	290	

79144

MITSUBISHI		RENAULT	
Carisma 1.6	1995-06	Clio I 1.2	1996-96
Carisma 1.8	1995-06	Express 1.2 RN	1991-98
Carisma 1.8 16V	1995-06	Twingo 1.2	1993-98
Carisma Sedan 1.6	1996-06		
Carisma Sedan 1.8	1996-06		



Reemplaza / Suitable:
Mitsubishi MD-321888
Renault 7700 859 831

L	L1	ohm	
180	24	240	

Motor / Engine / Moteur:
 C3G.

79145

RENAULT	
Clio 1.4	1991-98
Express Furgon 1.4	1991-98
R-19 I 1.4	1989-89
R-19 I Cabriolet 1.7	1991-92
R-19 I Chamade 1.4	1988-92
R-19 I Chamade 1.7	1989-92
R-19 II 1.4	1992-95
R-19 II 1.7	1992-95
R-19 II Cabriolet 1.7	1992-93
R-19 II Chamade 1.4	1992-95
R-19 II Chamade 1.7	1992-95



Reemplaza / Suitable:
Renault 7700 739 787
 7700 739 791

L	L1	ohm	
775	24	240	

79146

RENAULT		VOLVO	
Espace I 2.0 (J6R)	1984-90	340 1.3 (B13)	1988-90
		340 1.4 (B14)	1983-86
		340 2.0 (B200E)	1984-86
		340 2.0 (B200F)	1986-88
		340 2.0 Cat. (B200K)	1984-87
		360 1.3 (B13)	1988-90
		360 Sedan 1.4 (B14)	1983-86
		360 2.0 (B200E)	1984-90
		360 2.0 (B200F)	1986-88
		360 2.0 Cat. (B200K)	1984-86



Reemplaza / Suitable:
Renault 6025 003 234
 7700 739 591
 7700 850 591
Volvo 3204141-0

L	L1	ohm	
1410	24	240	

79147

FORD		CITROEN		PEUGEOT	
Fiesta V 1.4 TDCI	2001 ->	C1 1.4 HDi	2005 ->	1007 1.4 HDi	2005 ->
Fiesta Van 1.4 TDCI	2003 ->	C2 1.4 HDi	2003 ->	107 1.4 HDi	2005 ->
Fiesta VI 1.4 TDCI	2009 ->	C3 1.4 HDi	2002 ->	206 1.4 HDi	2002 ->
Fusion 1.4 TDCI	2002 ->	C3 1.4 HDi 16V	2002 ->	307 1.4 HDi	2002 ->
		Nemo Furgon 1.4	2008 ->	Bipper 1.4 HDi	2008 ->
		Xsara 1.4 HDi	2003-05	TOYOTA	
		Xsara Break 1.4 HDi	2003-05	Aygo 1.4 HDi	2005 ->
		Xsara Coupe 1.4 HDi	2003-05		
		MAZDA			
		2 1.4 CD	2003 ->		



Reemplaza / Suitable:
Citroen 96.374.991.80
 96.605.820.80
Ford 1148056
Mazda Y401-18-230
PSA 1920.EJ
Toyota SUDD1-00641

L	L1	Hall	
---	---	Effect	

Motores/Engines/Moteurs:
 DV4TD, DV4TED4



79148

CITROEN		FORD Cont.		PEUGEOT Cont.	
BERLINGO 1.6 HDi	2005 ->	GALAXY 2.2 TDCi	2008 ->	308 1.6 HDi	2007 ->
C2, C4, C5 1.6 HDi	2004 ->	MONDEO IV 2.2 TDCi	2008 ->	4007 2.2 HDi	2007 ->
C3 1.4 HDi, 1.6	2002 ->	S-MAX 2.2 TDCi	2008 ->	407 1.6 HDi, 2.2	2004 ->
C5, C6, C8 2.2 HDi	2004 ->	MAZDA		607, 807 2.2 HDi	2006 ->
C-CROSSER 2.2 HDi	2007 ->	2 1.4 CD	2003 ->	EXPERT 1.6 HDi 90	2007 ->
JUMPY 1.6 HDi 90	2007 ->	3 1.6 DI Turbo	2004 ->	PARTNER 1.6 HDi	2006 ->
XSARA 1.4 HDi, 1.6	2003 ->	MINI		TOYOTA	
FORD		MINI CLUBMAN Cooper D	2007 ->	AYGO 1.4 HDi	2005 ->
C-MAX 1.6 TDCi	2007 ->	MINI Cooper D	2007 ->	VOLVO	
FIESTA V 1.4 TDCi, 1.6	2001 ->	PEUGEOT		C30 1.6 D	2006 ->
FOCUS C-MAX 1.6 TDCi	2003-07	1007 1.6 HDi	2007 ->	S40 II 1.6 D	2005 ->
FOCUS II 1.6 TDCi	2004 ->	207 1.6 HDi	2006 ->	V50 1.6 D	2005 ->



Reemplaza / Suitable:
BMW 13 62 7 805 004
Citroën 96.372.208
 96.372.208.80
 96.374.669
Ford 1148073
 256Q-9E731-AA
Mazda Y401-18-221
PSA 1920.EH
Toyota SU001-00640
Volvo 30711104

L

L1

Hall
Effect



79149

CITROEN		PEUGEOT		RENAULT	
C5 2.0 16V	2001-04	406 2.0 16V HPI	2001-04	Avantime 3.0 V6	2001-03
C5 3.0 V6	2001 ->	406 3.0 V6	2000-04	Clio II 3.0 V6	2000 ->
C6 3.0 V6	2005 ->	406 Coupé 3.0 V6	2000-04	Laguna II 3.0 V6	2001 ->
C8 3.0 V6	2002 ->	407 3.0	2004 ->		
FIAT		407 Coupé 3.0 V6	2005 ->		
Ulysse 3.0 V6	2002 ->	407 SW 3.0	2005 ->		
LANCIA		607 3.0 V6 24V	2000 ->		
Phedra 3.0 V6	2002 ->	807 3.0 V6	2002 ->		

Motores/Engines/Moteurs:
ES9T4S.

Motores/Engines/Moteurs:
L7X.



Reemplaza / Suitable:
Citroën 96.346.055
 96.346.055.80
 96.346.059.80
Fiat 9634605580
PSA 1920.AE
Renault 96 34 605 580

L

L1
19,5

Hall
Effect



79150

CITROËN		FIAT		PEUGEOT Cont.	
C4 2.0 16V	2004 ->	Ducato 2.0	2002 ->	407 1.8, 2.0, 2.2	2004 ->
C4 2.0 16V	2004 ->	Scudo 2.0	2000 ->	607 2.0, 2.2	2000 ->
C4 Coupe 2.0 16V	2004 ->	Ulyssei 2.0	2000 ->	806 2.0	2000 ->
C4 Coupe 2.0 16V	2004 ->	LANCIA		807 2.0, 2.2	2000 ->
C5 1.8, 2.0 16V	2001 ->	Phedra 2.0	2002 ->	Boxer Bus 2.0	2002 ->
C8 2.0, 2.2	2002 ->	Zeta 2.0	2000-02	Expert 2.0	2000 ->
Evasion 2.0 16V	2000-02	PEUGEOT			
Jumper Bus 2.0	2002 ->	206 2.0	2000 ->		
Jumpy 2.0 i 16V	2000 ->	307 2.0	2000 ->		
Xsara 2.0 i (EW10J4)	2002 ->	406 1.8	2000 ->		
Xsara Picasso 2.0i (EW10J4)	2002 ->	406 2.0 16V	2000 ->		
		406 2.0	2000 ->		

Motores/Engines/Moteurs:
EW10J4.



Reemplaza / Suitable:
Citroen 96.291.398.80
 96.305.956.80
Fiat 9629139880
PSA 1920.8W

L

L1
30

Hall
Effect



79151

CITROËN		LANCIA		PEUGEOT	
FIAT		MAZDA		SUZUKI	
FORD		MINI		VOLVO	



Reemplaza / Suitable:
Citroen 96.285.598
 96.285.599
Fiat 9663752580
 9665443680
Ford 1229954
Mazda Y601-18-230A
Mini 13 62 7 805 005
PSA 1920.7V
Suzuki 3328067610000
Volvo 30711105

L

L1
29

Hall
Effect



79152

CITROEN		CITROEN Cont.		PEUGEOT	
AX 1.5 Diesel	1994-97	Xsara Break 1.9 D	1998-05	106 1.4 D	1992-96
Berlingo 1.9 D	1998 ->			106 1.5 Diesel	1994-96
Berlingo 1.9 D 4WD	1998 ->			206 1.9 D	1998-01
Berlingo 1.9 D 70	1999 ->			306 1.9 D	1998-01
Berlingo 1.9 D 70 4WD	1998 ->			306 Break 1.9 D	1998-02
Jumpy 1.9 D 70	1998 ->			306 1.9 D	1998-01
Jumpy Kasten 1.9 D 70	1996-03			605 2.1 Turbo D	1989-99
Saxo 1.5 D	1996-01			Expert 1.9 D 70	1998 ->
XM 2.1 Turbo D	1998-00			Partner Combispace 1.9 D	1998 ->
Xsara 1.5 D	1997-00				
Xsara 1.9 D	1997-05				
Xsara Break 1.5 D	1997-00				



Reemplaza / Suitable:
Citroen 96.168.062
 96.140.045.00
Peugeot 5918.91
 5918.93

L
375

L1
39

ohm
110



79153

CITROEN		CITROEN Cont.		PEUGEOT Cont.	
Berlingo 1.8 D	1998 ->	Xantia 1.9 D	1995-98	405 1.9 Turbo D	1994-98
Berlingo 1.9 D	1996 ->	Xsara 1.8 D	1997-00	406 1.9 TD	1996-04
Berlingo 1.8 D	1996 ->	Xsara 1.9 D	1997-00	806 1.9 TD	1995-02
Berlingo 1.9 D	1996 ->	ZX 1.8 D	1993-97	Boxer Bus 1.9 D	1994-02
C15 1.8 D	1986-00	ZX 1.9 D	1991-97	Boxer Bus 2.5 D	1994-02
Evasion 1.9 TD	1994-02	FIAT		Boxer 1.9 D	1994-02
Jumper Bus 1.9 TD	1994-02	Scudo 1.9 D	1996 ->	Boxer 2.5 D	1994-02
Jumper Bus 2.5 D	1994-02	Ulysse 1.9 TD	1995-02	Boxer 1.9 TD	1996-02
Jumper 1.9 TD	1994-02	PEUGEOT		Boxer 2.5 D	1994-02
Jumper 2.5 D	1994-02	306 1.9 Diesel	1993-96	Expert 1.9 D	1996 ->
Jumpy 1.9 TD	1995 ->	306 1.9 Turbo D	1993-97	Expert 1.9 D	1996 ->
ZX 1.9 Diesel	1994-97	405 1.9 D	1994-98	Partner 1.8, 1.9 D	1996 ->



Reemplaza / Suitable:
Citroen 96.168.063
Fiat 9616806380
Peugeot 5918.94

L
615

L1
39

ohm
110





79154

CITROEN		PEUGEOT	
BX 16 E	1989-93	405 1.6	1987-92
BX Break 16	1989-94	405 1.6i	1989-92
BX 16	1982-92	405 I Break 1.6 SRI	1988-92
XM 3.0 V6	1990-94	405 II 1.6	1992-95
XM 3.0 V6 24V	1994-00	405 II Break 1.6	1992-96
		605 3.0 SV 24	1989-99

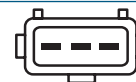


Reemplaza / Suitable:
Citroen 96.067.317
Peugeot 1920.E2
1920.F5

L
230

L1
24

ohm
370



79156

CITROEN		PEUGEOT	
AX	1986-97	104	1985-88
BX	1982-94	106	1991-96
C15	1986-00	205	1984-96
XM 2.0 T	1994-00	305	1985-89
ZX	1991-97	309	1985-93
		405	1987-92
		505	1980-93
		605	1989-93
		J5 Bus	1981 ->

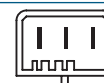


Reemplaza / Suitable:
Citroën 91.537.677.80
Peugeot 5918.75

L
820

L1
39

ohm
710



79158

CITROEN		PEUGEOT	
AX 14 D, 15 D	1988-97	106 1.4, 1.5 D	1992 ->
Jumper Furgon	1994 ->	306 1.7 Diesel	1994-97
Saxo 1.5 D	1996-04	306 1.9 SLD	1994-01
Xsara 1.9 TD	1997-00	306 1.9 D	1994-02
Xantia 1.9 D	1994-03	405 1.7 Turbo D	1988-92
Xantia 1.9 Turbo D	1994-03	405 1.9 Diesel	1988-92
ZX 1.8 Diesel	1993-97	406 1.8 TD	1996-04
ZX 1.9 Diesel	1991-97	Boxer furgon	1994 ->
ZX 1.9 Turbo D	1992-97		

Motores/Engines/Moteurs:
XUD7, XUD9A, XUD9T.



Reemplaza / Suitable:
Citroen 96.140.044.80
Peugeot 5918.92

L
600

L1
39

ohm
70



79159

MITSUBISHI		RENAULT		SUZUKI	
Carisma 1.9 DI-D	2000-06	Avantime 2.2 DCI	2002-03	Grand Vitara 1.9 DDIS	2005 ->
Space star 1.9 DI-D	2001 ->	Espace III, IV DCI	2000 ->	VOLVO	
NISSAN		Grand Scenic II, III 1.9 DCI	2004 ->	S 40 1.9 DI	2000-03
Interstar Furgon DCI	2002 ->	Kangoo 1.9 DCI	2001 ->	V40 Ranchera 1.9 DI	2000-04
Primastar Furgón	2001 ->	Laguna 1.9 DCI	1999-01		
OPEL		Laguna II 1.9, 2.2 DCI	2001 ->		
Movano DTI, CDTI	1998 ->	Master Furgón II, III DCI	2000 ->		
Vivaro Furgón DTI, CDTI	2001 ->	Megane I, II DCI	2002 ->		
		Scenic I, II, III 1.9 DCI	2003 ->		
		Trafic II Furgon DCI	2001 ->		
		Vel Satis 2.2 DCI	2002 ->		



Reemplaza / Suitable:
Opel 4413789
4435050
GM 9201843
Mitsubishi MW-30652288
Nissan 23760-00QAC
Renault 7700 103 486
8200 038 472
8200 370 572
3322067J11000
Suzuki 300883794
Volvo

L

L1
28

Hall
Effect



79161

FORD		FORD Cont.		VOLVO	
C-Max 1.8, 2.0, 2.3	2007 ->	S-Max 2.0	2006 ->	C30 1.8	2006 ->
C-Max 2.0	2007 ->	MAZDA		C30 2.0	2006 ->
Fiesta V ST 150	2005 ->	3 2.0	2003 ->	S40 II 1.8	2004 ->
Focus C-Max 1.8	2003-07	5 1.8	2005 ->	S40 II 2.0	2006 ->
Focus C-Max 2.0	2004-07	5 2.0	2005 ->	V50 1.8	2004 ->
Focus II 1.8	2006 ->			V50 2.0	2006 ->
Focus II 2.0	2004 ->			V70 III 2.0	2007 ->
Galaxy 2.0	2006 ->				
Maverick 2.3 16V	2004 ->				
Mondeo III 1.8 16V	2000-07				
Mondeo III 2.0 16V	2000-07				
Mondeo IV 2.0	2007 ->				



Reemplaza / Suitable:
Ford 1119150
1129988
1S7F6C315AD
Mazda LF01-18-221
Volvo 30658179

L

L1
10

ohm
450



79162

FORD	
C-Max 1.8 TDCI	2007 ->
Focus 1.8 TDCI	2001-04
Focus C-Max 1.8 TDCI	2005-07
Focus II 1.8 TDCI	2004 ->
Focus Kombi 1.8 TDCI	2001-04
Focus Sedan 1.8 TDCI	2001-04
Galaxy 1.8 TDCI	2006 ->
Mondeo IV 1.8 TDCI	2007 ->
S-Max 1.8 TDCI	2006 ->
Tourneo Connect 1.8 TDCI	2002 ->
Transit Connect 1.8 TDCI	2002 ->

Motores/Engines/Moteurs:
Lynx Common Rail.

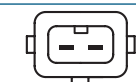


Reemplaza / Suitable:
Ford 1131913
1135856
1323872
1M5A-6C315-AC
1M5A-6C315-AD
1385381
1385382
1M5A-6C315-AE

L

L1
38

ohm
450





79163

RENAULT		RENAULT Cont.	
Laguna 1.9 TDI	1997-01	Scenic 1.9 dTi 98 cv.	1999-03
Megane I 1.9 dCi 102 cv.	2001 ->		
Megane I 1.9 dTi 98 cv.	1997-01		
Megane I Classic 1.9 dCi	2001 ->		
Megane I Classic 1.9 TDI	1996 ->		
Megane Classic 1.9 dTi	1997-01		
Megane Coach 1.9 dCi	2001-03		
Megane Coach 1.9 dTi	1997-01		
Megane Grandtour 1.9 dCi	2001 ->		
Megane Grandtour 1.9 dTi	1999-01		
Megane Scenic 1.9 TDI	1997-99		
Scenic 1.9 dCi 102 cv.	1999-03		



Reemplaza / Suitable:
Renault 7700 300 992

L

L1
24

ohm
700



79164

AUDI		SEAT Cont.		VOLKSWAGEN	
A2 1.2 TDI	2001-05	Cordoba 1.9 TDI 100/131 cv.	2002 ->	Bora 1.9 TDI	1999-02
A2 1.4 TDI 75 cv.	2000-05	Ibiza IV 1.4 TDI	2002 ->	Golf IV 1.9 TDI	1999-02
A2 1.4 TDI 90 cv.	2003-05	Ibiza IV 1.9 TDI	2002 ->	Lupo 1.2 TDI	1999-05
A3 1.9 TDI 100/130 cv.	2000 ->	Leon 1.9 TDI	2001-06	Lupo 1.4 TDI	1999-05
FORD		Toledo II 1.9 TDI 130-150 cv.	2001-06	New Beetle 1.9 TDI	2001 ->
Galaxy 1.9 TDI	1995-06	SKODA		Polo 1.4 TDI	2000 ->
SEAT		Fabia 1.4 TDI	2003 ->	Polo 1.9 TDI	2001 ->
Alhambra 1.9 TDI 90 cv.	1996 ->	Fabia 1.9 TDI 100 cv.	2000-08	Sharan 1.9 TDI	1995 ->
Alhambra 1.9 TDI 115 cv.	2000 ->	Ocatvia 1.9 TDI	2000 ->	Transporter V 1.9 TDI 85-105	2003 ->
Alhambra 1.9 TDI 130 cv.	2003 ->	Praktik 1.4 TDI	2007 ->		
Arosa 1.4 TDI	2000 ->	Roomster 1.4, 1.9 TDI	2006 ->		
Cordoba 1.4 TDI	2002 ->				

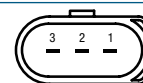


Reemplaza / Suitable:
Ford 1100748
XM216B288AA
Seat-VW 038 957 147 A
038 957 147 G
045 957 147 A
045 957 147 B

L
445

L1

Hall
Effect



79166

OPEL		VAUXHALL	
Astra F 1.8i 16V 125 cv.	1993-94	Astra MKIII 1.8i 16V 125 cv.	1993-94
Astra F 1.8i 16V 116 cv.	1994-98	Astra MKIII 1.8i 16V 115 cv.	1994-96
Astra F 2.0i 16V 136 cv.	1995-98	Astra MKIII 2.0i 16V 136 cv.	1995-98
Astra G 2.0	1998-05	Astra MKIV 2.0 16V	1998-00
Calibra A 2.0i 16V, 4x4	1994-97	Calibra 2.0i 16V, 4x4	1994-97
Omega B 2.0 16V	1994-99	Cavalier MKIII 2.0 SRi 16V	1993-95
Vectra A 2.0i 16V, 4x4	1994-95	Omega 2.0 16V	1994-99
Vectra B 1.8i 16V	1995-00	Vectra 1.8i 16V	1995-00
Vectra B 2.0i 16V	1995-00	Vectra 2.0i 16V	1995-00



Reemplaza / Suitable:
G.M. 90458252
Opel 1238915

L

L1

ohm



NEW 79167

OPEL		VAUXHALL	
Astra F 1.8i 16V 125 cv.	1993-94	Astra MKIII 1.8i 16V 125 cv.	1993-94
Astra F 1.8i 16V 116 cv.	1994-98	Astra MKIII 1.8i 16V 115 cv.	1994-96
Astra F 2.0i 16V 136 cv.	1995-98	Astra MKIII 2.0i 16V 136 cv.	1995-98
Astra G 2.0	1998-05	Astra MKIV 2.0 16V	1998-00
Calibra A 2.0i 16V, 4x4	1994-97	Calibra 2.0i 16V, 4x4	1994-97
Omega B 2.0 16V	1994-99	Cavalier MKIII 2.0 SRi 16V	1993-95
Vectra A 2.0i 16V, 4x4	1994-95	Omega 2.0 16V	1994-99
Vectra B 1.8i 16V	1995-00	Vectra 1.8i 16V	1995-00
Vectra B 2.0i 16V	1995-00	Vectra 2.0i 16V	1995-00

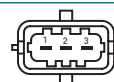


Reemplaza / Suitable:
G.M. 9012039
Opel 93171450
9012039

L

L1

ohm



NEW 79168

OPEL	
Astra F 2.0 i 16V	1995-98
Astra F Caravan 2.0 i 16V	1995-98
Astra F CC 2.0 i 16V	1995-98
Astra G Caravan 2.0 16V	1998-04
Astra G CC 2.0 16V	1998-05
Astra G CC 2.0 16V OPC	1999-02
Astra G Sedan 2.0 16V	1998-05
Omega B 2.2 16V	1999-03
Omega B Caravan 2.2 16V	1999-03

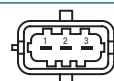


Reemplaza / Suitable:
G.M. 90520850
Opel 6238079

L

L1

Hall
Effect



79170

ALFA ROMEO		FIAT		LANCIA Cont.	
147 1.9 JTD 16V	2003 ->	Croma 1.9 D Multijet	2005 ->	Thesis 2.4 JTD	2003 ->
147 1.9 JTDM 16V	2005 ->	Croma 2.4 D Multijet	2005 ->	OPEL	
156 1.9 JTD 16V, SW	2002-06	Stilo 1.9 D Multijet	2005 ->	Astra H 1.9 CDTI	2004 ->
156 2.4 JTD, SW	2003-06	Stilo 1.9 JTD 140 cv.	2004 ->	Signum 1.9 CDTI 150 cv.	2004 ->
159 1.9 JTDM 16V, SW	2005 ->	Stilo Multi Wagon 1.9 JTD	2004 ->	Vectra C 1.9 CDTI, GTS	2004 ->
159 2.4 JTDM, SW	2005 ->	Bravo 1.6 D	2008 ->	Zafira 1.9 CDTI	2005 ->
166 2.4 JTD	2003 ->	Bravo 1.9 D	2007 ->	SAAB	
GT 1.9 JTD	2003 ->	LANCIA		9-3 1.9 TiD	2004 ->
Brera 2.4 JTDM	2006 ->	Delta III 1.6 D	2008 ->	9-3 Cabriolet 1.9 TiD	2006 ->
Mito 1.6 JTDM	2008 ->	Delta III 1.9 D, 2.0 D	2008 ->	9-3 Kombi 1.9 TiD	2005 ->
Spider 2.4 JTDM	2007 ->	Musa 1.6 D	2008 ->	9-5 1.9 TiD	2006 ->



Reemplaza / Suitable:
Fiat 46798345
G.M. 6235666
Opel 93179391
Saab 6235666
93179391

L

L1
36,5

ohm
900





79171

FIAT		OPEL		SUZUKI	
500 1.3 D	2007 ->	Combo 1.3 CDTI	2004 ->	Ignis II 1.3 DDIS	2003 ->
Fiorino Furgon 1.3 D	2008 ->	Corsa D 1.3 CDTI	2006 ->	Swift III 1.3 DDIS	2005 ->
Linea 1.3 D	2007 ->			Wagon RT 1.3 DDIS	2003 ->
Qubo 1.3 D	2008 ->				
Strada 1.3 D	2006 ->				
LANCIA					
Ypsilon 1.3 D	2006 ->				

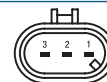


Reemplaza / Suitable:	
Fiat	46798365 55201874
G.M.	93178046 93190703 93193371
Opel	6238646 1235269 4708542
Suzuki	3322085E00000

L

L1
27,6

Hall
Effect



79172

ALFA ROMEO		FIAT		OPEL	
147 1.9 JTD 16V	2003 ->	Bravo 1.9 D	2007 ->	Astra H 1.9 CDTI 100 cv.	2005 ->
147 1.9 JTDM 16V	2005 ->	Croma 1.9 D, 2.4	2005 ->	Astra H 1.9 CDTI 150 cv.	2004 ->
156 1.9 JTD 16V, SW	2002 ->	Stilo 1.9 D, JTD	2004 ->	Astra H 1.9 CDTI 16V 101 cv.	2006 ->
156 2.4 JTD, SW	2003 ->	Stilo Multi Wagon 1.9 JTD	2004 ->	Astra H 1.9 CDTI 16V 120 cv.	2004 ->
159 1.9 JTDM 16V, SW	2005 ->	LANCIA		Astra H GTC 1.9 CDTI	2005 ->
159 2.4 JTDM, SW	2005 ->	Thesis 2.4 JTD	2003 ->	Astra H GTC 1.9 CDTI 16V	2005 ->
166 2.4 JTD	2003 ->	SAAB		Signum 1.9 CDTI 150 cv.	2004 ->
Brera 2.4 JTDM	2006 ->	9-3 1.9 TID	2004 ->	Vectra C 1.9 CDTI, GTS	2004 ->
GT 1.9 JTD	2004 ->	9-3 1.9 TTID	2007 ->	Zafira 1.9 CDTI	2005 ->
Spider 2.4 JTDM	2007 ->	9-5 1.9 TID	2006 ->		

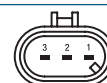


Reemplaza / Suitable:	
Fiat	46798364 55201876
G.M.	93179392
Opel	6235665 1235268
Saab	93190702

L

L1
27,6

Hall
Effect



79173

FIAT		FIAT Cont.		OPEL	
500 1.3 D	2007 ->	Qubo 1.3 D	2008 ->	Agila 1.3 CDTI	2003 ->
Doblo 1.3 D Multijet	2005 ->	Strada 1.3 D	2006 ->	Astra H 1.3 CDTI, GTC	2005 ->
Doblo Cargo 1.3 D Multijet	2005 ->	FORD		Corsa C 1.3 CDTI	2003 ->
Doblo Cargo 1.3 JTD 16V	2004 ->	Ka 1.3 TDCI	2009 ->	Meriva 1.3 CDTI	2003 ->
Fiorino Furgon 1.3 D	2008 ->	LANCIA		Tigra 1.3 CDTI	2004 ->
Grande Punto 1.3 D 75 cv.	2005 ->	Musa 1.3 D Multijet	2004 ->	SUZUKI	
Grande Punto 1.3 D 90 cv.	2005 ->	Ypsilon 1.3 D	2006 ->	Ignis II 1.3 DDIS	2003 ->
Idea 1.3 D	2005 ->	Ypsilon 1.3 JTD	2003 ->	Swift III 1.3 DDIS	2005 ->
Idea 1.3 JTD	2004 ->			Wagon R+ 1.3 DDIS	2003 ->
Linea 1.3 D	2007 ->				
Panda 1.3 JTD, 4x4	2003 ->				
Punto 1.3 JTD 16V	2003 ->				

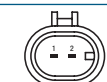


Reemplaza / Suitable:	
Fiat	73502752
Ford	1547993 1564860
G.M.	6235645 93178045
Opel	6235645 4708543
Suzuki	3322085E10000

L

L1
36,3

ohm
780



79175

AUDI		AUDI Cont.		SKODA Cont.	
A3 1.9 TDI 105 cv.	2003 ->	All Road 4.2 V8	2002-05	Octavia Combi 2.0 FSI, 4x4	2004 ->
A3 2.0 FSI	2003 ->	TT 2.0 TFSI	2006 ->	Octavia Combi 2.0 TDI	2004 ->
A3 2.0 TDI, Quattro	2003 ->	SEAT		VOLKSWAGEN	
A3 2.0 TFSI, Quattro	2004 ->	Altea 2.0 TFSI	2004 ->	Eos 2.0 FSI, TFSI	2006 ->
A3 S3	2006 ->	Altea 2.0 FSI, TDI	2004 ->	Golf V 2.0 FSI, 4Motion	2004 ->
A4 2.0 FSI, Avant	2002 ->	Leon 2.0 FSI, TDI	2004 ->	Golf V 2.0 GTI	2004 ->
A4 2.0 TFSI, Quattro, Avant	2004 ->	Toledo III 2.0 FSI, TDI	2004 ->	Golf V Plus 2.0 FSI	2005 ->
A4 3.0, Quattro, Avant, Cabrio	2001-05	SKODA		Golf Plus 2.0 FSI	2005 ->
A4 S4 Quattro, Avant, Cabrio	2003 ->	Octavia 1.9 TDI 105 cv.	2004 ->	Jetta III 2.0 FSI	2005 ->
A6 2.0 TFSI, Avant	2005 ->	Octavia 2.0 FSI	2005 ->	Jeta III 2.0 TFSI	2005 ->
A6 3.0, Quattro, Avant	2001-05	Octavia 2.0 TDI	2004 ->	Passat 2.0 FSI, TFSI Variant	2005 ->
A6 4.2 Quattro, Avant	2004 ->	Octavia Combi 1.9 TDI, 4x4	2004 ->	Touran 2.0 FSI	2003 ->

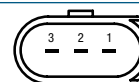


Reemplaza / Suitable:	
Audi-Seat-VW	06C 905 163 B

L

L1
23,8

Hall
Effect



79176

AUDI		SEAT		VOLKSWAGEN	
A3 1.6 102 cv.	2003 ->	Altea 1.6 102 cv.	2004 ->	Bora 1.6 102 cv.	2000-05
A3 Sportback 1.6	2004 ->	Altea XL 1.6	2006 ->	Caddy III 1.6 102 cv.	2004 ->
A4 1.6 102 cv.	2000 ->	Leon 1.6	2005 ->	Golf V 1.6 102 cv.	2004 ->
A4 Avant 1.6	2001 ->	Toledo III 1.6 102 cv.	2004-09	Golf Plus 1.6	2005 ->
		SKODA		Jetta III 1.6 102 cv.	2005 ->
		Octavia 1.6 102 cv.	2000 ->	New Beetle 1.6 102 cv.	2000 ->
		Octavia Combi 1.6	2000 ->	New Beetle Cabrio 1.6	2003 ->
				Passat 1.6 102 cv.	2001-00
				Passat Variant 1.6	2001-00
				Touran 1.6 102 cv.	2003 ->

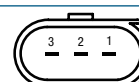


Reemplaza / Suitable:	
Audi-Seat-VW	06B 905 163 A

L

L1
42,3

Hall
Effect



79177

AUDI		SEAT Cont.		VOLKSWAGEN Cont.	
A3 FSI, TDI	2003 ->	Toledo III 1.9 TDI, 2.0	2004 ->	Golf Plus FSI, TSI, TDI	2005 ->
A4 2.0 TDI	2004 ->	SKODA		Golf V FSI, SDI, TDI, TSI	2003 ->
A6 2.0 TDI	2004 ->	Fabia 1.4 TDI, 1.9	1999 ->	Jeta III FSI, TDI, TSI	2005 ->
MITSUBISHI		Octavia FSI, TDI	2004 ->	Multivan 1.9 TDI	2006 ->
Grandis 2.0 DI-D	2005 ->	Praktik 1.4 TDI	2007 ->	Passat FSI, TDI	2005 ->
Outlander 2.0 DI-D	2007 ->	Roomster TDI	2006 ->	Polo FSI, TDI	2001 ->
SEAT		Superb 1.9 TDI, 2.0	2008 ->	Sharan 2.0 TDI	2005 ->
Alhambra 2.0 TDI	2005 ->	VOLKSWAGEN		Touran FSI, TDI	2003 ->
Altea TDI	2004 ->	Caddy III SDI, TDI	2004 ->	Transporter 1.9 TDI	2006 ->
Cordoba 1.4 TDI, 1.9	2002 ->	Crafter 2.5 TDI	2006 ->		
Ibiza IV, V TDI	2002 ->	Eos FSI, TDI	2006 ->		
Leon TDI	2005 ->	Fox 1.4	2005 ->		

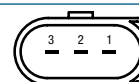


Reemplaza / Suitable:	
Mitsubishi	MN-980249 MN-980339 MN-980415
Seat	045 906 433 A
Skoda	036 906 433 E
VW	036 906 433 036 906 433 A

L
445

L1

Hall
Effect





79178

SEAT		SKODA		VOLKSWAGEN	
Cordoba 1.2	2003 ->	Fabia 1.2 54 cv.	2002-08	Fox 1.2 55 cv.	2005 ->
Ibiza IV 1.2	2002 ->	Fabia 1.2 60 cv.	2006 ->	Polo 1.2 54 cv.	2002-07
Ibiza V 1.2	2008 ->	Fabia 1.2 64 cv.	2003-08	Polo 1.2 60 cv.	2007 ->
Ibiza V 1.4	2008 ->	Fabia 1.2 70 cv.	2007 ->	Polo 1.2 64 cv.	2001-07
Ibiza V Sportcoupe	2009 ->	Fabia Combi 1.2 64 cv.	2003-07	Polo 1.2 69 cv.	2007 ->
		Fabia Combi 1.2 70 cv.	2007 ->		
		Fabia Praktik 1.2	2001-07		
		Fabia Sedan 1.2	2001-07		
		Roomster 1.2	2006 ->		
		Praktik 1.2	2007 ->		

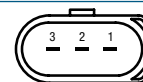


Reemplaza / Suitable:
Seat-VW 03D 906 433

L

L1

Hall
Effect



79179

FORD		FORD Cont.		FORD Cont.	
Escort '91 1.3	1990-94	Escort VII 1.6	1995-99	Transit 2.5 Di, TD	1994-00
Escort '91 1.4	1990-94	Escort VII 1.8	1995-00	Transit 2.3	2000-06
Escort '91 1.8 D	1990-94	Escort VII RS	1995-98	Transit 2.4	2000-06
Escort '95 1.4	1995 ->	Galaxy 1.9 TDI	1995-06		
Escort '95 1.8 D, TD	1995 ->	Galaxy 2.0 i	1995-06		
Escort VI 1.3	1992-95	Galaxy 2.3	1997-06		
Escort VI 1.4	1992-95	Galaxy 2.8 i	1995-00		
Escort VI 1.6	1992-95	Scorpio II 2.0 i	1994-98		
Escort VI 1.8	1992-95	Scorpio II 2.3 i	1996-98		
Escort VI RS	1992-95	Scorpio II 2.5 TD	1994-98		
Escort VII 1.3	1995-99	Scorpio II 2.9 i	1994-98		
Escort VII 1.4	1995-99	Transit 2.0	1994-06		

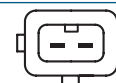


Reemplaza / Suitable:
Ford 7009578
95WF6C315AA

L

L1
37,5

ohm
400



79180

FORD	
Mondeo III 2.0 Di	2000-07
Mondeo III 2.0 16V TDDi	2000-07
Mondeo III 2.0 16V TDCi	2000-07
Mondeo III 2.0 TDCi 130 cv.	2000-07
Mondeo III 2.2 TDCi	2004-07
Transit 2.0 TDCi	2002-06
Transit 2.4 TDCi	2006 ->
Transit 2.2 TDCi	2006 ->
Transit 3.2 TDCi	2007 ->

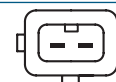


Reemplaza / Suitable:
Ford 1143723
2S7Q6C315AC

L

L1
37,5

ohm
400



79181

FORD		FORD Cont.	
C-Max 1.6, TDCi	2007 ->	Focus II 1.4	2004 ->
C-Max 1.8, TDCi	2007 ->	Focus II 1.6, TDCi, Ti	2004 ->
C-Max 2.0, TDCi	2007 ->	Focus II 1.8, TDCi	2005 ->
Focus 1.4	1998-04	Focus II 2.0, TDCi	2004 ->
Focus 1.6	1998-04	Focus II 2.5 RS, ST	2005 ->
Focus 1.8, Di, TDDi, TDCi	1998-04		
Focus 2.0	1998-04		
Focus RS	2002-04		
Focus ST170	2002-04		
Focus C-Max 1.6, Ti, TDCi	2003-07		
Focus C-Max 1.8, Ti, TDCi	2003-07		
Focus C-Max 2.0, Ti, TDCi	2003-07		

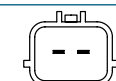


Reemplaza / Suitable:
Ford 3043998
4617387
4882780
5S4P-7H108-AA
BS4P-7H103-AA
XS4P-7H103-AB
G.M. 10456576

L

L1
30

ohm
850



79182

OPEL		OPEL Cont.		SAAB	
Astra G 1.8 16V	2000-05	Vectra B 1.8 i 16V	1995-03	9-3 1.8i	2004 ->
Astra G Cabriolet 1.8 16V	2001-05	Vectra C 1.8 16V	2002 ->	9-3 Kombi 1.8i	2005 ->
Astra G Coupe 1.8 16V	2000-05	Vectra C GTS 1.8 16V	2002 ->		
Astra H 1.8	2004 ->	Zafira 1.8 16V	2000-05		
Astra H Cabriolet 1.8	2005 ->				
Astra H GTC 1.8	2005 ->				
Corsa C 1.8	2000 ->				
Meriva 1.8	2003 ->				
Signum 1.8	2003 ->				
Tigra TwinTop 1.8	2004 ->				



Reemplaza / Suitable:
G.M. 9115115
Opel 1238223
Saab 91 15 115

L

L1
39

ohm
1400



79183

MITSUBISHI		RENAULT		SUZUKI	
Carisma 1.9 Di-D	2000-06	Espace IV 1.9 DCi	2002 ->	Grand Vitara 1.9 DDIS	2005 ->
Space Star 1.9 Di-D	2001 ->	Grans Scénic II 1.9 DCi	2004 ->		
MITSUBISHI				VOLVO	
Interstar dCi 80	2002 ->	Laguna 1.9 DCi	1999-01	S40 I 1.9 DI	2000-03
Primastar dCi	2001 ->	Laguna II 1.9 DCi	2001 ->	V40 1.9 DI	2000-04
Primera 1.9 dCi	2003 ->	Master II 1.9 DCi, DTi	2000 ->		
OPEL		Megane II 1.9 DCi	2002 ->		
Movano 1.9 DTi	2000 ->	Megane III 1.9 DCi	2009 ->		
Vivaro 1.9 DTi	2001 ->	Scénic II 1.9 DCi	2003 ->		
		Trafic II 1.9 DCi	2001 ->		



Reemplaza / Suitable:
Mitsubishi M-617112
Nissan 23731-AW300
23750-00QAB
23750-00QAJ
Opel 1232268
4414098
Renault 7700 113 552
8200 443 891
Suzuki 33220-67J00
Volvo 30617112

L

L1
32

ohm
700





79184

NISSAN		RENAULT		RENAULT Cont.	
Primastar 2.0	2001 ->	Espace III 2.2 12V TD	1996-00	Safrane II 2.2 dT	1996-00
OPEL		Espace III 2.2 D	1997-00	Trafic II 2.0	2001 ->
Arena 2.5 D	1998-01	Espace III 2.2 DCi	2000-02	Trafic 2.5 D	1989-01
Movano 2.5 D	1998-00	Laguna II 2.0 16V	2002 ->		
Movano 2.8 DTi	1998-01	Laguna 2.2 D	1993-01		
Vivaro 2.0 16V	2001 ->	Laguna 2.2 dT	1996-01		
		Laguna Grandtour 2.2 D	1995-01		
		Laguna Grandtour 2.2 DT	1996-01		
		Master II 2.5 D	1998-01		
		Master II 2.8 d	2001 ->		
		Master II 2.8 DTi	1998 ->		
		Megane I 2.0i 16V	1999-02		



Reemplaza / Suitable:
G.M. 9108457
Nissan 23750-00QAC
Opel 4400457
Renault 77 00 863 523

L
430

L1
32,5

ohm
250



79185

RENAULT		RENAULT Cont.	
Avantime 2.0 16V Turbo	2001-03	Scénic II 2.0	2003 ->
Espace IV 2.0	2002 ->	Vel Satis 2.0 16V Turbo	2002 ->
Espace IV 2.0 Turbo	2002 ->	Vel Satis 2.0i 16V	2002 ->
Grand Scénic II 2.0	2004 ->		
Laguna I 1.8 16V	2001 ->		
Laguna II 2.0 16V	2002 ->		
Laguna II Grandtour 1.8 16V	2001 ->		
Megane I 1.8i 16V	1999-02		
Megane I 2.0 16V	2002 ->		
Megane I 2.0i 16V	1999-02		
Megane II 2.0 16V	2002 ->		

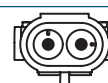


Reemplaza / Suitable:
Renault 82 00 128 449

L
340

L1
32,5

ohm
250



79186

Aislante azul / Blue colour

FORD		FORD Cont.		FORD Cont.	
Cougar 2.0 16V	1998-01	Mondeo II 2.5 ST 200	1999-00	Mondeo III ST220	2002-07
Cougar 2.5 V6 24V	1998-01	Mondeo III 1.8 16V 110 cv.	2000-07		
Maverick 2.0 16V	2001 ->	Mondeo III 1.8 16V 125 cv.	2000-07		
Maverick 2.3 16V	2004 ->	Mondeo III 1.8 SCI	2003-07		
Maverick 3.0 24V	2004 ->	Mondeo III 2.0 16V	2001-07		
Maverick 3.0 V6 24V	2001 ->	Mondeo III 2.0 DI	2000-07		
Mondeo II 1.6 i	1996-00	Mondeo III TDDI 2.0	2000-07		
Mondeo II 1.6i 16V	1998-00	Mondeo III TDCi 115 cv.	2000-07		
Mondeo II 1.8 i	1996-00	Mondeo III 2.0 TDCi	2000-07		
Mondeo II 1.8 TD	1996-00	Mondeo III 2.2 TDCi	2004-07		
Mondeo II 2.0 i	1996-00	Mondeo III 2.5 V6 24V	2000-07		
Mondeo II 2.5 24V	1996-00	Mondeo III 3.0 V6 24V	2004-07		



Reemplaza / Suitable:
Ford 3023785
 4628032
 6L8P-7H103-AA
 F8RP-7H103-AA
 6L8Z-7H103-AA
G.M. 10456574

L

L1
37

ohm
680



79187

DAEWOO		MERCEDES BENZ Cont.		PUCH	
Korando 3.2	1999 ->	E 60 AMG	1994-95	G-Modell G 320	1994-97
Musso 3.2	1999 ->	G 320	1994-97	G-Modell G 636 AMG	1995 ->
MERCEDES BENZ		G 36 AMG	1995 ->	SSANGYONG	
C 220	1993-00	S 280	1993-98	Korando 3.2	1999 ->
C 280	1993-00	S 300 SE 2.8	1993-98	Korando Cabrio 3.2	1999 ->
C 36 AMG	1994-00	S 300 SE, SEL / S 320	1991-98	Musso 3.2	1996 ->
E 36 T AMG	1994-96	S 420	1993-98		
E 220. E 220 T	1993-95	S 400 SE, SEL / S 420	1991-98		
E 280. E 280 T	1993-95	S 500	1193-98		
E 320. E 320 T	1993-97	S 500 SE, SEL	1991-98		
E 420	1993-95	SL 280. SL 300. SL 320	1993-01		
E 500	1993-95	SL 500. SL 500 AMG	1989-01		



Reemplaza / Suitable:
Bosch 0 261 210 122
 0 261 210 123
Daewoo 0031537328
 0031537528
Mercedes 003 153 73 28
 003 153 75 28
Ssangyong 0031537328
 0031537528

L

L1
40

ohm
1150



79188

DAEWOO		MERCEDES BENZ Cont.		PUCH	
Korando 2.3	1999 ->	SLK	1996-00	G-Modell G 290 TD	1997 ->
Musso 2.3	1999 ->	Sprinter 210 D	1997-00	G-Modell G 300 TD	1996 ->
Musso 3.2	1999 ->	Sprinter 212 D	1995-00	G-Modell G 320	1994-97
MERCEDES BENZ		Sprinter 310 D	1997-02	G-Modell G 36 AMG	1995 ->
Clase A	1997-04	Sprinter 312 D	1995-00	SSANGYONG	
Clase C	1993-01	Sprinter 410 D	1996-06	Korando 2.0	1997 ->
Clase E	1995-02	Sprinter 412 D	1997-06	Korando 2.3	1997 ->
Clase G	1994 ->	Unimog UX	1996 ->	Korando Cabrio 2.3	1998 ->
Clase S	1991-99	Vario 512 D	1996 ->	Musso 2.0	1996 ->
Clase V	1993-99	Vario 612 D	1996 ->	Musso 2.3	1996 ->
CLK	1997-02	Vario 812 D	1996 ->		
SL	1992-01	Vito 2.2 16V Cdi	1999 ->		



Reemplaza / Suitable:
Bosch 0 281 002 124
Daewoo 0031537228
 0031537428
Mercedes 003 153 72 28
 003 153 74 28
Ssangyong 0031537228
 0031537428

L

L1
40

ohm
1150



79189

ALFA ROMEO		HYUNDAI		OPEL	
156 T.S., JTD, JTS, GTA	2000-06	Terracan 2.5 TD	2001 ->	Astra F	1991-05
DAEWOO		Terracan 2.9 CRDi	2001 ->	Astra G	1998-05
Leganza 2.2 16v	1999-02	Terracan 3.5 i v6 4WD	2001 ->	Astra H	2004 ->
FIAT		LANCIA		Combo 1.4	1994-01
Brava 1.6 16v	1996-01	Lybra 1.6 16v, SW	1999 ->	Cosra A,B Gasolina/Petrol	1989-00
Bravo 1.6 16v	1996-01	Lybra 1.8 16v, SW	1999 ->	Tigra 1.4, 1.6	1994-00
Marea 1.6 16v	1996 ->	Lybra 2.0 20v, SW	2000 ->	Vectra B 1.8i 16v	1995-00
				Zafira	1999 ->
				SUZUKI	
				Liana 1.3	2001 ->
				Liana 1.6, AWD	2001 ->



Reemplaza / Suitable:
Alfa Romeo 9947855
Daewoo 8941160A030
Fiat 9947855
G.M. 90512494
Hyundai 45584-H1070
Opel 1238113
Suzuki 2614360G10000

L

L1
28

ohm
500





79190

OPEL		OPEL Cont.	
Astra F 1.4 SI	1992-98	Corsa B 1.4 i 16V	1994-00
Astra F 1.6	1995-98	Corsa B Combo 1.4i	1999-00
Astra F 1.6 i	1992-98	Tigra 1.4 16V	1994-00
Astra F Cabriolet	1993-01		
Astra F Classic	1998-05		
Astra F Combo	1995-98		
Astra F Wagon	1991-98		
Astra F Van 1.6 i	1991-96		
Astra G 1.6	1998-00		
Combo 1.4	1994-01		
Corsa A 1.4 i	1989-93		
Corsa B 1.4 i	1993-00		

Reemplaza / Suitable:
G.M. 90486210
Opel 1238110



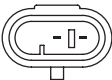
L 430	L1 28	ohm 430	
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79191

OPEL		OPEL Cont.	
Astra F 1.4 SI	1992-98	Corsa B 1.4 i 16V	1994-00
Astra F 1.6	1995-98	Corsa B Combo 1.4i	1999-00
Astra F 1.6 i	1992-98	Tigra 1.4 16V	1994-00
Astra F Cabriolet	1993-01		
Astra F Classic	1998-05		
Astra F Combo	1991-98		
Astra F Wagon	1991-98		
Astra F Van 1.6 i	1991-96		
Astra G 1.6	1998-00		
Combo 1.4	1994-01		
Corsa A 1.4 i	1989-93		
Corsa B 1.4 i	1993-00		

Reemplaza / Suitable:
G.M. 90486211
Opel 1238111



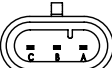
L 255	L1 28	ohm 700	
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79192

OPEL		VAUXHALL	
Astra G Caravan 1.6	2000-04	Astra Mk IV 1.6	2000 ->
Astra G CC 1.6	2000-05	Astra Mk IV CC 1.6	2000 ->
Astra G Furgón 1.6	2000-05	Astra Mk IV Estate 1.6	2000 ->
Astra G Sedan 1.6	2000-05	Astravan Mk IV 1.6 i	2000 ->
Combo Furgón/Kombi 1.6	2001 ->	Combo 1.6	2001 ->
Combo Tour 1.6	2001 ->	Meriva 1.6 i	2003 ->
Meriva 1.6	2003 ->		

Reemplaza / Suitable:
GM 10456592
465926034
Opel 1236308



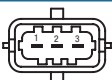
L ---	L1 24	Hall Effect	
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79193

FIAT		OPEL	
Stilo 1.6 16V	2005 ->	Astra G 1.6	2002-05
		Astra G Cabriolet 1.6	2003-05
		Astra G Coupe 1.6 16V	2000-05
		Astra G Wagon 1.6	2002-05
		Astra H 1.6	2004 ->
		Astra H Twintop 1.6	2005 ->
		Astra H GTC 1.6	2005 ->
		Meriva 1.6	2006 ->
		Vectra C 1.6	2006 ->
		Vectra C GTS 1.6	2006 ->
		Zafira 1.6	2005 ->

Reemplaza / Suitable:
Fiat 71739799
G.M. 24435096
Opel 25337265
6238282



L ---	L1 8,3	Hall Effect	
----------	-----------	----------------	---

79194

ALFA ROMEO		FIAT Cont.		OPEL	
147 1.9 JTD	2001 ->	Idea 1.9 JTD	2004 ->	Astra H 1.9 CDTI	2004 ->
147 1.9 JTDM 8V	2005 ->	Multipia 1.9 JTD	2002 ->	Astra H GTC 1.9 CDTI	2005 ->
156 1.9 JTD	2001-06	Punto 1.9 JTD	2000 ->	Signum 1.9 CDTI	2004 ->
159 1.9 JTDM 8V	2005 ->	Sedici 1.9 D	2006 ->	Vectra C 1.9 CDTI	2004 ->
166 2.4 JTD	2002 ->	Stilo 1.9 D, JTD	2001 ->	Vectra C GTS 1.9 CDTI	2004 ->
Brera 1.8 TBI	2009 ->	Strada 1.9 JTD	2003 ->	Zafira 1.9 CDTI	2005 ->
Guilietta 1.8 TBI	2010 ->				
FIAT		LANCIA		SUZUKI	
Bravo 1.9 D	2007 ->	Delta III 1.8	2009 ->	SX4 1.9 DIS	2006 ->
Croma 1.9 D	2005 ->	Lybra 1.9 JTD, SW	2001 ->		
Doblo 1.9 D, JTD	2001 ->	Lybra 2.4 JTD, SW	2000 ->	SAAB	
Grande Punto 1.9 D	2005 ->	Musa 1.9 D	2004 ->	9-3 1.9 TID	2004 ->
		Thesis 2.4 JTD	2002 ->		

Reemplaza / Suitable:
Alfa Romeo 46798352
Bosch 0 281 002 603
Fiat 46798352
G.M. 6235664
Opel 6235664
Saab 93179433
Suzuki 3322079JR0000



L ---	L1 36,5	ohm 900	
----------	------------	------------	---

79195

ALFA ROMEO		FIAT Cont.		LANCIA	
Mito 1.4	2008 ->	Punto 1.4	2003 ->	Delta III 1.4	2008 ->
FIAT		Punto 1.4 16V	2003 ->	Delta III 1.8	2009 ->
500 1.4	2007 ->	Stilo 1.4 16V	2001 ->	Musa 1.4	2004 ->
Bravo 1.4	2007 ->	Stilo Multi Wagon 1.4 16V	2004 ->	Ypsilon 1.2	2003 ->
Bravo 1.4 T-JET	2007 ->			Ypsilon 1.4	2003 ->
Doblo 1.4	2000 ->				
Grande Punto 1.4	2005 ->				
Idea 1.2	2004 ->				
Idea 1.4	2004 ->				
Linea 1.4 T-JET	2007 ->				
Panda 1.4	2006 ->				
Punto 1.2 16V	2003 ->				

Reemplaza / Suitable:
Alfa Romeo 46815160
Bosch 0261 210 238
Fiat 46815160



L ---	L1 34,5	ohm 900	
----------	------------	------------	---



79196

FIAT		FIAT Cont.		LANCIA	
500 1.2	2007 ->	Panda 1.1	2003 ->	Musa 1.4	2005 ->
Doblo 1.2	2001 ->	Panda 1.2	2003 ->	Ypsilon 1.2	2003 ->
Doblo 1.4	2005 ->	Panda 1.2 4x4	2004 ->	Ypsilon 1.4	2006 ->
Doblo 1.4 MPI	2005 ->	Punto 1.2 60, Van	1999 ->		
Doblo Cargo 1.4, MPI	2005 ->	Siena 1.4	1996 ->		
Grande Punto 1.2	2005 ->	Strada 1.2	1999 ->		
Grande Punto 1.4	2005 ->	FORD			
Grande Punto 1.4 MPI	2005 ->	Ka 1.2	2009 ->		
Idea 1.4	2004 ->				
Linea 1.4	2007 ->				
Palio 1.0	1996 ->				
Palio 1.4	1996 ->				



Reemplaza / Suitable:
Fiat 55187380
Ford 1535716
 1564811
 9551-9E731-BA

L

L1
34,5

ohm
1100



79197

IVECO		IVECO Cont.		KIA	
Daily II 29 L 10	2002 ->	Daily II 35 C 14, S 14	2005-06	Sorento 2.5 CRDi	2002 ->
Daily II 29 L 10 V	2002-06				
Daily II 29 L 12	2002 ->				
Daily II 29 L 12 V	2002 ->				
Daily II 29 L 14	2005-06				
Daily II 35 C 10 V	2002 ->				
Daily II 35 C 12	2002 ->				
Daily II 35 C 12 V	2002 ->				
Daily II 35 S 10	2002 ->				
Daily II 35 S 10 V	2002 ->				
Daily II 35 S 12	2002 ->				
Daily II 35 S 12 V	2002 ->				

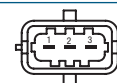


Reemplaza / Suitable:
Bosch 0261 002 512
Hyundai 39180-4A111
Iveco 500371540
Kia 39180 4A111

L
260

L1
24

ohm
900



79198

AUDI		FORD		VOLKSWAGEN	
A3 3.2	2006 ->	Galaxy 2.8 V6	2000 ->	Bora 2.3 V5, 4Motion	2000-05
A3 3.2 V6 Quattro	2003 ->	SEAT		Bora 2.8 V6 4Motion	1999-05
A4 2.0 FSI, Avant, Cabrio	2002-04	Alhambra 2.8 V6, 4Motion	2000 ->	Eos 3.2, 3.2 FSI	2006 ->
A4 2.7 TDI, Avant, Cabrio	2006 ->	Leon 2.3 16V	2000-03	Golf IV 2.3 V5, 4Motion	2000-05
A4 3.0 TDI Quattro, Cabrio	2005 ->	Leon 2.8 24V	2001-04	Golf IV 2.8 V6 4Motion	1999-05
A6 2.7 TDI, Avant, Quattro	2005 ->	Leon 2.8 Cupra 4	2001-04	Golf V 3.2 R32 4Motion	2006 ->
A6 3.0 TDI, Avant, quattro	2004 ->	Toledo II 2.3 V5 20V	2001-06	New Beetle 2.3 V5	2001 ->
A8 3.0 TDI Quattro	2003 ->	SKODA		Passat 3.2 FSI, 4Motion	2006 ->
TT 3.2 Quattro	2004-05	Superb 3.6 V6	2008 ->	Passat 3.6 FSI	2005-07
TT 3.2 V6 Quattro	2006 ->			Phaeton 3.0 V6 TDI	2004 ->
TT 3.2 VR6 Quattro	2003 ->			Sharan 2.8 V6 24V, 4Motion	2000 ->
TT Roadster	2003 ->				

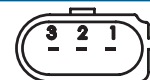


Reemplaza / Suitable:
Bosch 0 261 210 145
 0 261 210 146
Ford 1120193
VW YM21 12A54 AA
 022 957 147
 06A 906 433 A
 06A 906 433 E

L
343

L1
24

ohm
900



79199

AUDI		VOLKSWAGEN		PORSCHE	
Q7 3.6 FSI Quattro	2006 ->	Golf IV 3.2 R32 4Motion	2002-05	Cayene 3.2	2003 ->
		Multivan V 3.2 V6	2004 ->		
		Multivan V 3.2 V6 4motion	2004 ->		
		Phaeton 3.2 V6	2002 ->		
		Touareg 3.2 V6	2002-06		
		Touareg 3.6 V6 FSI	2006-10		
		Transporter V 3.2 V6	2003 ->		
		Transporter V 3.2 V6 Quattro	2003 ->		
		Transporter IV 2.6 V6	2000-03		

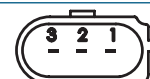


Reemplaza / Suitable:
VW 021 957 147
 022 957 147 A
Porsche 955 606 147 00
 955 606 433 00

L
420

L1
24

ohm
900



79200

ALFA ROMEO		ALFA ROMEO Cont.	
147 1.6 16V T.S.	2001 ->	Spider 2.0 JTS	2003-05
147 2.0 16V T.S.	2001 ->	Spider 2.0 16V T.S.	1995-05
156 1.8 16V T.S.	2000-05		
156 2.0 16V T.S.	2000-02		
156 2.0 JTS	2002-05		
156 Sportwagon	2000-06		
166 2.0 T.S.	1998 ->		
GT 1.8 TS	2004 ->		
GT 2.0 JTS	2004 ->		
GTV 2.0 JTS	2003 ->		
GTV 2.0 16V T.S.	1995 ->		



Reemplaza / Suitable:
Alfa Romeo 46798363
Bosch 0261 210 227

L

L1
34,5

ohm
900



79201

MERCEDES BENZ		SMART	
C 240. C240 T	1997-00	Cabrio 0.6	2000-04
C 280. C 280 T	1993-00	Cabrio 0.7	2003-04
C 36 AMG	1994-00	Cabrio 0.8 CDI	2001-04
C 43 AMG	1997-00	City-Coupe 0.6	1998-04
CLK 320, Cabrio	1997-02	City-Coupe 0.7	2003-04
E 240. E 240 T	1997-00	City-Coupe 0.8 CDI	1999-04
E 280. E 280 T	1997-02	Crossblade 0.6	2002 ->
E 320. E 320 T	1997-02	Fortwo Cabrio 0.7	2004 ->
E 430	1997-02	Fortwo Cabrio 0.8 CDI	2004 ->
E 55 AMG	1997-02	Fortwo Coupe 0.7	2004 ->
ML 320	1998-02	Fortwo Coupe 0.8 CDI	2004 ->
		Roadster 0.7, Coupe	2003 ->

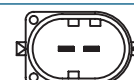


Reemplaza / Suitable:
Bosch 0 261 210 141
 0 261 210 142
Mercedes 003 153 9528
Smart 003 3117 V002

L

L1
40

ohm
1150





79202

MERCEDES BENZ		MERCEDES BENZ Cont.		MERCEDES BENZ Cont.	
Citaro G, N, NG	2000 ->	CLS	2004 ->	Viano 3.7	2004 ->
Clase A	1997 ->	SL	1998 ->	Viano 2.2 CDI	2003 ->
Clase B	2005 ->	SLK	1996 ->	Viano CDI 2.2 4-matic	2005 ->
Clase C	1993 ->	SLR	2004 ->	Vito	1996 ->
Clase E	1995 ->	Sprinter	1995 ->	MITSUBISHI	
Clase G	1995 ->	Vaneo 1.6	2002 ->	Colt VI 1.5 DI-D	2004 ->
Clase M	1998 ->	Vaneo 1.7 CDI	2002 ->	SMART	
Clase R	2006 ->	Vaneo 1.9	2002 ->	Forfour 1.5 CDI	2004 ->
Clase S	1998 ->	Vario 512 D	1996 ->		
Clase V	1999-03	Vario 612 D	1996 ->		
CLC	2008 ->	Vario 812 D	1996 ->		
CLK	1997 ->	Viano 3.2	2003 ->		

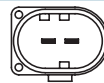


Reemplaza / Suitable:
Bosch 0261 210 171
Mercedes 003 153 2728
 003 153 2828
Mitsubishi MN-960274
 MN-960372

L

L1
40

ohm
1150



79203

LEXUS		TOYOTA	
ES300	1994-03	Avalon	1995-04
ES330	2004-06	Avenis 2.0 D-4D	1999 ->
RX300	1999-03	Camry 3.0	1996 ->
RX330	2004-06	Corolla 2.0 D-4D	1994 ->
RX400 H	2006 ->	Highlander	2001-06
		Previa 2.0 D-4D	2001 ->
		Rav 4 II 2.0 D-4D	2001 ->
		Sienna	1998-06
		Solara	1999-06



Reemplaza / Suitable:
Toyota 90080-19009
 90919-05012

L

L1
28

ohm
2100



79204

DAIHATSU		TOYOTA	
YRV 1.3	2001 ->	Avenis 1.6	1997-00
YRV 1.3 4WD	2001 ->	Avenis 1.8	1997-00
		Avenis Station Wagon	1997-00
		Echo 1.5i 16V	1999 ->
		IQ 1.0	2009 ->
		Prius 1.5	2000 ->
		Yaris 1.0 16V	1999 ->
		Yaris 1.3 16V	2000 ->
		Yaris 1.5 TS	2003 ->
		Yaris 1.5 WT-i TS	2001 ->
		Yaris Verso 1.3	2000 ->
		Yaris Verso 1.5	2000 ->



Reemplaza / Suitable:
Daihatsu 9091905024000
Toyota 90919-05024

L

L1
30

ohm
2200



79205

FIAT		OPEL	
Croma 2.2 16V	2005 ->	Astra G 2.2 16V	2001 ->
		Astra G Cabrio 2.2 16V	2001 ->
		Astra G Coupe 2.2 16V	2000 ->
		Astra G Wagon 2.2 16V	2001 ->
		Signum 2.2 direct	2003 ->
		Speedster 2.2	2000 ->
		Vectra B 2.2 i 16V	2000-02
		Vectra C 2.2 16V	2002 ->
		Vectra C 2.2 Direct	2003 ->
		Vectra C GTS 2.2 16V	2002 ->
		Zafira 2.2	2005 ->
		Zafira 2.2 16V	2000 ->



Reemplaza / Suitable:
Fiat 71739267
G.M. 12567712
 24576398
Opel 6238158
 6238186

L

L1
34,7

ohm
700



79206

FIAT		HONDA Cont.		TOYOTA	
Doblo 1.2, 1.6	2001 ->	FR-V 2.2 i CTDI	2005 ->	Auris 1.4 D-4D	2007 ->
Panda 1100	1995-04	MINI		Corolla 1.4 D	2004 ->
Seicento 1.1	1998 ->	Mini One D	2003 ->	Yaris 1.4 D-4D	2001 ->
Palio 1.2	1996 ->	OPEL		VOLVO	
Punto 1.2	1999 ->	Astra H 1.7 CDTi	2004 ->	S60 2.4 D, D5	2001 ->
Strada 1.2, 1.7 TD	1999 ->	Astra H GTC 1.7 CDTi	2005 ->	S80 2.4 D, D5	2001-06
Strada 1.9 D, JTD	2001 ->	Astra G 1.7 CDTi	2003-05	V70 II 2.4 D, D5	2002 ->
FORD		PORSCHE		XC 70 Cross Country 2.5 D5	2002 ->
Mondeo III 1.8 SCI	2003-07	911 3.4, 3.6, 3.8	2001 ->	XC 90 D5	2002 ->
HONDA		Boxster 2.7, 3.2	2002 ->		
Accord VIII 2.2 I-CTDI	2004 ->	Carrera GT 5.7	2003 ->		
Civic VI 1.7 CTDi	2002 ->				

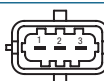


Reemplaza / Suitable:
Fiat 46786049
Ford 1222677
G.M. 97306560
Honda 37501-PLZ-D00
Mini 13 627 791 127
Opel 6235604
Porsche 996 606 106 03
Toyota 90080-19026
 90919-05055
Volvo 8631533

L

L1
24

Hall
Effect



79208

BMW		FORD		PORSCHE	
325 e 2.7	1983-88	Scorpio I, II 2.5 TD	1993-98	924 2.5 5	1985-88
325 i 171 cv.	1983-89	LAND ROVER		928	1983-95
325 i 170 cv.	1987-91	Discovery II 2.5 TDI	1995 ->	944	1981-91
325 ix 171 cv.	1986-87	OPEL		959 2.8	1986-91
325 ix 170 cv.	1987-91	Frontera A 2.5 TDS	1996-98	968 3.0	1991-95
325 i Cabrio 171 cv.	1986-87			VOLVO	
325 i Cabrio 170 cv.	1987-93			740 2.0	1985-90
325 i Touring	1987-93			740 2.3	1985-88
325 ix touring	1988-93			760 2.3	1982-90
525 e 2.7 122 cv.	1981-87				
525 e 2.7 125 cv.	1983-87				
525 e 2.7 129 cv.	1985-87				

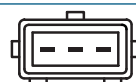


Reemplaza / Suitable:
BMW 12 141 710 668
Bosch 0 281 002 096
Ford 7072657
 V94DD6C315-AA
G.M. 91153898
Land Rover ERR2079
Opel 6238423
Porsche 944 606 115 00
Volvo 1317030-3

L
493

L1
56

ohm
900





79209

AUDI	SEAT	VOLKSWAGEN Cont.
A3 3.2 V6 quattro 2003 ->	Alhambra 2.8 V6 2000 ->	Golf IV 3.2 R32 4motion 2002-05
A8 6.0 W12 quattro 2001-10	Leon 2.8 Cupra 4 2001-06	Golf IV Variant 2.3, 2.8 1999-06
TT 3.2 VR6 quattro 2003-06	Toledo II 2.3 V5, 20V 1999-06	Golf V 3.2 R32 4motion 2005 ->
FORD	VOLKSWAGEN	
Galaxy 2.8 i V6 1995-00	Bora 2.3 V5, 4motion 1998-05	Multivan V 3.2 V6 2004 ->
Galaxy 2.8 i V6 4x4 1996-00	Bora 2.8 V6 4motion 1999-05	New Beetle 2.3 V5 2000 ->
Galaxy 2.8 V6 2000-06	Bora Kombi 2.3, 2.8 1999-05	New Beetle RSI 3.2 2000-01
PORSCHE	Eos 3.2 V6 2006 ->	Passat 2.3, 4.0 1997-05
Cayenne 3.2 2003 ->	Golf III 2.9 VR6 Syncro 1994-97	Phaeton 3.2, 6.0 2002 ->
	Golf III Variant 2.9 VR6 1994-99	Sharan 2.8 1995 ->
	Golf IV 2.3 V5 1997-05	Touareg 3.2, 6.0 2002-10
	Golf IV 2.8 V6 4motion 1999-05	Transporter IV 2.8 1995-03
		Transporter V 3.2 2003 ->



Reemplaza / Suitable:

Ford	1072303
	95VW9P986-BA
Porsche	955 606 106 00
Volkswagen	06A 905 161 A

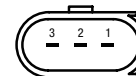
L

L1

22,5

Hall

Effect



79210

OPEL	OPEL Cont.	VAUXHALL Cont.
Agila 1.0 12V 2000 ->	Corsa C 1.2 Twinport 2004 ->	Combo 1.4 2004 ->
Agila 1.2 16V 2000 ->	Corsa C 1.4 Twinport 2003 ->	Corsa 1.0 i 12V 1996-00
Astra G Caravan 1.2 16V 1998-04	Corsa C Furgón 1.2 2005 ->	Corsa 1.2 i 16V 1998-00
Astra G CC 1.2 16V 1998-05	Corsa C Furgón 1.2 16V 2000 ->	Corsa Mk II 1.0 12V 2000 ->
Astra G Sedan 1.2 16V 1998-05	Meriva 1.4 16V Twinport 2004 ->	Corsa Mk II 1.2 16V 2000 ->
Astra H 1.4 2004 ->	Tigra TwinTop 1.4 2004 ->	Corsa Mk III 1.0 2006 ->
Combo Kombi 1.4 16V 2005 ->	VAUXHALL	Corsa Mk III 1.2 2006 ->
Combo Tour 1.4 2004 ->	Agila 1.0 12V 2000 ->	Corsa Mk III 1.4 2006 ->
Combo B 1.0 i 12V 1996-00	Agila 1.2 16V 2000 ->	Corsavan MK II 1.2 16V 2000 ->
Corsa B 1.2 i 16V 1998-00	Agila 1.2 16V Twinport 2004 ->	Meriva 1.4 16V Twinport 2004 ->
Corsa C 1.0 2000 ->	Astra MK V CC 1.4 2004 ->	Tigra TwinTop 1.4 2004 ->
Corsa C 1.2 2000 ->	Astra MK V Estate 1.4 2004 ->	



Reemplaza / Suitable:

GM	09118374
Opel	6238110

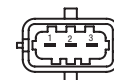
L

L1

24

Hall

Effect



79211

OPEL	SAAB
Astra F 1.8 i 1992-98	900 II 2.0 -16 Turbo 1993-98
Astra F 2.0 i 1992-98	900 II 2.0 i 1994-98
Astra F Cabriolet 2.0 i 1993-94	900 II 2.3 -16 1993-98
Astra F Caravan 1.8 i 1991-98	900 II 2.5 -24 V6 1993-98
Astra F Caravan 2.0 i 1991-94	900 II Cabriolet 2.0 1993-98
Astra F CC 1.8 i 1991-98	900 II Cabriolet 2.0 i 1993-98
Astra F CC 2.0 i 1991-98	900 II Cabriolet 2.3 16 1993-98
Calibra A 2.0 i 1990-97	900 II Cabriolet 2.5 1993-98
	900 II Coupe 2.0 16 Turbo 1993-98
	900 II Coupe 2.0 i 1993-98
	900 II Coupe 2.3 16 1993-98
	900 II Coupe 2.5 24 V6 1993-98



Reemplaza / Suitable:

GM	90348929
Opel	1238405
Saab	44 90 991

L

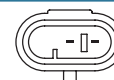
210

L1

28

ohm

430



79212

OPEL
Astra F 1.8 i 1992-98
Astra F 2.0 i 1992-98
Astra F Cabriolet 2.0 i 1993-94
Astra F Caravan 1.8 i 1991-98
Astra F Caravan 2.0 i 1991-94
Astra F CC 1.8 i 1991-98
Astra F CC 2.0 i 1991-98
Calibra A 2.0 i 1990-97



Reemplaza / Suitable:

GM	90348930
Opel	1238406

L

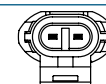
410

L1

28

ohm

430



79213

IVECO	IVECO Cont.
Daily I 30-8 1998 ->	Daily I 35-8 V,35-8 C 1991-98
Daily I 30-8 1992-98	
Daily I 30-8 1998 ->	
Daily I 30-8 V 1998 ->	
Daily I 30-8 V,30-8 C 1998 ->	
Daily I 30-8 V,30-8 C 1989-98	
Daily I 35-10 1989-96	
Daily I 35-10 V,35-10 C 1989-98	
Daily I 35-8 1998 ->	
Daily I 35-8 1989-98	
Daily I 35-8 K 1998 ->	
Daily I 35-8 V,35-8 C 1998 ->	



Reemplaza / Suitable:

Iveco	98424820
-------	----------

L

730

L1

40

ohm

750



79214

NISSAN	RENAULT
Kubistar 1.6 16V 2003 ->	Grand Scénic II 1.6 2004 ->
	Laguna II 1.8 16V 2001 ->
	Megane II Coupé 1.6 2003 ->
	Megane II Kombi 1.6 2003 ->
	Megane II Fastback 1.6 2003 ->
	Scénic II 1.6 2003 ->



Reemplaza / Suitable:

Nissan	23750-00Q0E
Renault	82 00 468 647
	82 00 647 556

L

L1

24

ohm

250





79215

DACIA		RENAULT		RENAULT Cont.	
Logan 1.4, 1.5, 1.6	2004 ->	Avantime 2.0, 2.2, 3.0	2001-03	Megane II 1.5, 1.9, 2.0	2002 ->
Sandero 1.4, 1.6	2008 ->	Clio II 3.0 V6 Sport	2000 ->	Modus 1.2, 1.4	2004 ->
NISSAN		Clio III 1.2, 1.4, 1.5	2005 ->	Modus 1.5 dCi	2004 ->
Almera II 1.5 dCi	2003 ->	Clio III 1.6, 2.0	2005 ->	Modus 1.6	2004 ->
Micra	2003 ->	Espace IV 1.9, 2.0, 2.2	2002 ->	Scénic II 1.4, 1.5, 1.6	2003 ->
Note 1.4, 1.5, 1.6	2006 ->	Grand Scénic II	2004 ->	Scénic II 2.0 dCi	2005 ->
Qashqai 1.5, 1.6, 2.0	2007 ->	Laguna II 1.6, 1.8, 1.9	2001 ->	Trafic II 1.9 dCi 100	2001 ->
Tiida 1.5, 1.6, 1.8	2007 ->	Laguna II 2.0, 2.2	2001 ->	Trafic II 2.0	2001 ->
X-Trail 2.0, 2.5	2007 ->	Laguna III 1.5, 2.0	2007 ->	Trafic II 2.5 dCi 135	2001 ->
OPEL		Logan 1.4, 1.5, 1.6	2004 ->	Twingo 1.2	2004 ->
Vivaro 2.0	2001 ->	Master II 2.5 dCi 120	2001 ->	Vel Satis 2.0, 2.2	2002 ->
		Master III 2.5 dCi	2003 ->		



Reemplaza / Suitable:
Nissan 23798-00Q0B
Renault 82 00 643 171

L

L1
24

ohm
250



79216

NISSAN	
Kubistar 1.4	2003 ->



Reemplaza / Suitable:
Nissan 23750-00Q0K
Renault 82 00 647 388

L

L1
24

ohm
250



79217

DACIA		RENAULT		RENAULT Cont.	
Logan 1.6 16V	2006 ->	Grand Scénic II 1.6	2004 ->	Megane II 1.6 16V	2002 ->
Logan MCV 1.6 16V	2007 ->	Laguna II 1.6 16V	2001 ->	Megane II Coupé 1.6	2003 ->
NISSAN		Laguna II 1.8 16V	2001 ->	Megane II Kombi 1.6	2003 ->
Kubistar 1.6 16V	2003 ->	Laguna II 2.0 16V	2002 ->	Megane II Sedan 1.4	2003 ->
		Laguna II 2.0 16V IDE	2001 ->	Megane II Sedan 1.6	2003 ->
		Laguna II Grandtour 1.6	2001 ->	Scénic II 1.4	2003 ->
		Laguna II Grandtour 1.8	2001 ->	Scénic II 1.6	2003 ->
		Laguna II Grandtour 2.0	2001 ->	Scénic II 1.6 16V	2007 ->
		Logan 1.6	2007 ->		
		Logan Kombi 1.6	2007 ->		
		Megane II 1.4 16V	2003 ->		
		Megane II 1.6	2005 ->		



Reemplaza / Suitable:
Nissan 23750-00Q0H
Renault 82 00 647 554

L

L1
24

ohm
250



NEW 79218

DAEWOO	
Lanos 1.4	1997 ->
Lanos 1.5	1997 ->
Lanos 1.6 16V	1997 ->
Nubira 1.6 16V 106 cv.	1997 ->
Nubira 1.6 16V 103 cv.	2000 ->
Nubira Wagon 1.6 16V	1997 ->
Nubira Wagon 1.6 109 cv.	2003 ->

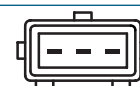


Reemplaza / Suitable:
Daewoo 96183235

L
300

L1
24

ohm
550



79220

FIAT		LANCIA	
Brava 1.2 16V 80	2000-01	Y 1.2 16V	2000-03
Bravo 1.2 16V 80	2000-01		
Punto 1.2 16V 80	1999 ->		
Stilo 1.2 16V	2002 ->		



Reemplaza / Suitable:
Fiat 46474583
46754538
46779352
55187332

L
660

L1
34,5

ohm
900



NEW 79221

BMW		BMW Cont.	
318 d	2001-03	520 d	2000-03
318 d Touring	2002-05	520 d Touring	2000-03
318 tds	1995-98	525 td	1993-03
318 tds Compact	1995-00	525 td Touring	1993-97
318 tds Touring	1995-99	525 tds	1991-03
320 d	1998-01	525 tds Touring	1991-04
320 d Touring	2000-01	725 tds	1996-01
325 td	1991-98		
325 tds	1993-98		
325 tds Touring	1995-99		

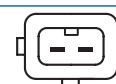


Reemplaza / Suitable:
BMW 13 622 243 560
2 243 560

L

L1
56,3

ohm
1300





NEW 79222

FIAT		IVECO		IVECO Cont.	
Ducato 2.3 JTD	2002 ->	Daily II 29 L 10, 10 V	2002 ->	Daily II 40 C 17, 40 S 17	2005-06
		Daily II 29 L 12, 12 V	2002 ->	Daily II 50 C 14	2004-06
		Daily II 29 L 14	2005-06	Daily II 50 C 17	2004-06
		Daily II 29 L 14, 14D	2006 ->	Daily II 65 C 14	2004-06
		Daily II 35 C 10 V, 35 S 10 V	2002 ->	Daily II 65 C 17	2004-06
		Daily II 35 C 12, 35 S 12	2002 ->		
		Daily II 35 C 12 V, 35 S 12 V	2002 ->		
		Daily II 35 C 14	2004-06		
		Daily II 35 C 14, 35 S 14	2005-06		
		Daily II 35 C 17, 35 S 17	2005-06		
		Daily II 35 S 10	2002 ->		
		Daily II 40 C 14	2004-06		

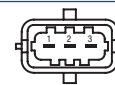
Reemplaza / Suitable:
Bosch 0 281 002 513
Fiat 500374763



L
175

L1
38

ohm
900



79223

CITROËN		LANCIA		RENAULT	
C3 1.4, 1.6	2002 ->	Phedra 2.0	2002 ->	Clio II 1.4, 1.6	1998 ->
C4 1.6, 2.0	2004 ->	PEUGEOT		Grand Scénic II 1.6, 2.0	2004 ->
C5 1.8, 2.0, 2.2	2001 ->	206 1.4, 1.6	1998 ->	Kangoo 1.4, 1.6	1997 ->
C8 2.0	2002 ->	207 1.6	2006 ->	Laguna 1.9, 2.0	1997-01
Jumpy 2.0 i 16V	2000 ->	307 1.6, 2.0	2000 ->	Laguna II 1.8, 1.9, 2.0	2001 ->
Xsara 1.6, 2.0	2000-05	308 1.6	2007 ->	Megane I	1996 ->
Xsara PICASSO 2.0 16V	2003 ->	406 2.0	1998-04	Megane II	2002 ->
FIAT		407 2.0	2004 ->	Megane III Sedan 1.9 dCi	2009 ->
Scudo 2.0	2000 ->	806 2.0 16V	2000-02	Megane Scenic 1.9, 2.0	1997-99
Ulysse 2.0	2000 ->	807 2.0	2002 ->	Scénic I	1999-03
		EXPERT 2.0	2000 ->	Scénic II 1.6, 1.9, 2.0	2003 ->

Reemplaza / Suitable:
Fiat 7700100008
Peugeot 2529.29
Renault 77 00 100 008



L
575

L1
30

ohm
300



79224

CITROËN		PEUGEOT		TOYOTA	
C1 1.0	2005 ->	107 1.0	2005 ->	Aygo 1.0	2005 ->
				Yaris 1.0 VVT-i	2006 ->

Reemplaza / Suitable:
Peugeot 1920.HW
Toyota 90919-05062
90919-W5002



L

L1
62

ohm
2200



79225

TOYOTA	
Prius 1.5	2003 ->
Prius Sedan 1.5	2000-04
Yaris 1.3 16V	1999 ->
Yaris 1.5 TS	2003 ->
Yaris 1.5 VVT-i TS	2001 ->
Yaris Verso 1.3	1999 ->
Yaris Verso 1.5	2000 ->

Reemplaza / Suitable:
Toyota 90919-05045



L

L1
62

ohm
1400



NEW 79227

ALFA ROMEO		ALFA ROMEO		LANCIA	
147 3.2 GTA	2003 ->	166 3.0 V6 24V	1998 ->	Kappa 3.0 24V	1994-01
156 2.5 V6 24V	2000-05	166 3.2 V6 24V	2003 ->	Kappa Coupe 3.0 24V	1996-01
156 3.2 GTA	2002-05	GT 3.2 GTA	2003 ->	Kappa SW 3.0 24V	1996-01
156 Sportwagon 2.5 V6 24V	2000-06	GTV 3.0 V6 24V	1996 ->	Thesis 3.0 V6	2002 ->
156 Sportwagon 3.2 GTA	2002-06	GTV 3.2 V6 24V	2003 ->	Thesis 3.2 V6	2003 ->
164 3.0	1993-95	Spider 3.0 V6	1995-05		
164 3.0 Allrad	1992-97	Spider 3.2 V6 24V	2003-05		
164 3.0 24V Q4	1994-98				
164 3.0 24V QV	1992-98				
166 2.0 V6	1998 ->				
166 2.5 V6 24V	1998 ->				

Reemplaza / Suitable:
Alfa Romeo 46811123
60586655
60662825
Bosch 0 232 103 009
0 232 103 024
Fiat 46811123
60810695
60816861
8024224



L
415

L1
28

Hall
Effect



NEW 79228

MERCEDES BENZ		MERCEDES BENZ Cont.	
CLK, Cabriolet	1997 ->	Sprinter	1995-06
CLS 55 AMG	2005 ->	Viano	2003 ->
CLS 500	2004 ->	Vito	2003 ->
Clase C	1997 ->	PORSCHE	
Clase E	1995 ->	Boxter 2.5	1996-99
Clase G	1997 ->	PUCH	
Clase M	1998 ->	G-modell G 500	1998 ->
Clase R	2006 ->	G-modell G 55 AMG	1999 ->
Clase S	1991-05		
SL 280	1992 ->		
SLK 200 Kompressor	2000 ->		

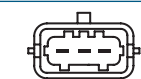
Reemplaza / Suitable:
Chrysler 5101122AA
Mercedes 003 153 83 28
004 153 07 28
004 153 69 28
Porsche 996 606 106 01
Volkswagen 088 927 321



L

L1
24

Hall
Effect





79229

OPEL		VAUXHALL	
Omega B 2.6 V6	2000-03	Omega 2.6 V6	2000 ->
Omega B 3.2 V6	2001-03	Omega 3.2 V6	2001 ->
Omega B Caravan 2.6 V6	2000-03	Omega Estate 2.6 V6	2000 ->
Omega B Caravan 3.2 V6	2001-03	Omega Estate 3.2 V6	2001 ->
Signum 3.2 V6	2003 ->	Signum 3.2 V6	2003 ->
Vectra B 2.6 i V6	2000-02	Vectra 2.6 i V6	2000 ->
Vectra B Caravan 2.6 i V6	2000-03	Vectra CC 2.6 i V6	2000 ->
Vectra B CC 2.6 i V6	2000-03	Vectra Estate 2.6 i V6	2000 ->
Vectra C 3.2 V6	2002 ->	Vectra Mk II 3.2 V6	2003 ->
Vectra C Caravan 3.2 V6	2003 ->	Vectra Mk II Estate 3.2	2003 ->
Vectra C GTS 3.2 V6	2002 ->	Vectra Mk II GTS 3.2 V6	2002 ->

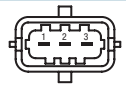


Reemplaza / Suitable:
GM 9118140
Opel 6238111

L
230

L1
13,8

Hall
Effect



79230

LAND ROVER		ROVER		ROVER Cont.	
Discovery I 2.0 16 V	1993-98	100 111 C/L/S	1990-98	45 1.4, 1.6, 1.8	2000 ->
Freelander 1.8	1998 ->	100 Cabriolet 111	1994 ->	75 1.8	1999 ->
MG		200 214, 216, 218, 220	1989-00	75 1.8 Turbo	2003 ->
MG TF 115, 120	2002 ->	25 1.4 16V	1999 ->	75 Tourer 1.8, Turbo	2001 ->
MG TF 135, 160	2002 ->	25 1.6 16V	1999 ->	800 825 Si Lux	1996-99
MG ZR 105, 120, 160	2001 ->	25 1.8 16V	1999 ->	800 Coupe 825 Si	1996-99
MG ZS 120	2001 ->	25 2.0 IDT	1999 ->	Cabriolet 214 1.4i 16V	1993-99
MG ZT 1.8 16V	2003 ->	400 414	1993-00	Cabriolet 216 1.6i 16V	1996-99
MG ZT 1.8 T 16V	2003 ->	400 416 Si	1995-00	Coupe 1.6, 1.8	1996-99
MG ZT- T 1.8 16V	2003 ->	400 420 D	1995-00	Streetwise 1.4	2003 ->
MG ZT- T 1.8 T 16V	2003 ->	400 Tourer 1.6 i	1994-98		
MGF 1,8 i VVC	2001-02	400 Tourer 1.8 i	1996-98		



Reemplaza / Suitable:
Rover NSC 100390
NSC 100760

L

L1
31

ohm
1300



NEW 79231

AUDI		AUDI Cont.		VOLKSWAGEN	
A3 1.8 TFSI, 2.0	2004 ->	TT Roadster 1.8 TFSI, 2.0	2007 ->	Eos 2.0 TFSI	2006 ->
A3 Cabriolet 1.8 TFSI, 2.0	2008 ->	PORSCHE		Golf V 2.0 GTI	2004 ->
A4 1.8 TFSI, 2.0	2007 ->	968 3.0	1991-95	Golf V Variant 2.0	2007 ->
A4 Allroad 2.0 TFSI	2009 ->	SEAT		Jetta III 2.0 TFSI	2005 ->
A4 Avant 1.8 TFSI, 2.0	2008 ->	Altea 1.8 TFSI	2007 ->	Passat 1.8 TSI	2007 ->
A5 1.8 TFSI, 2.0	2007 ->	Leon 1.8 TSI	2007 ->	Passat 2.0 TFSI	2005 ->
A5 Cabriolet 1.8 TFSI	2009 ->	Toledo III 1.8 TFSI	2007 ->	Scirocco 2.0 TSI	2008 ->
A5 Cabriolet 2.0 TFSI	2009 ->	SKODA		Tiguan 2.0 TFSI 4motion	2007 ->
A5 Sportback 1.8 TFSI	2009 ->	Octavia 1.4 TSI	2008 ->		
A5 Sportback 2.0 TFSI	2009 ->	Octavia 2.0 RS	2005 ->		
Q5 2.0 TFSI	2008 ->	Superb 1.8 TSI	2008 ->		
TT 1.8 TFSI, 2.0	2006 ->	Yeti 1.8 TSI 4x4	2009 ->		

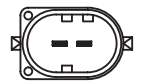


Reemplaza / Suitable:
Volkswagen 06H 906 433

L

L1
33,5

ohm
900



79238

RENAULT	
Clio III 1.4 16V	2005 ->
Clio III 1.6 16V	2005 ->
Clio Grandtour 1.6 16V	2008 ->
Laguna III 1.6 16V	2007 ->
Megane III 1.6 16V	2008 ->
Modus 1.4	2004 ->
Modus 1.6	2004 ->

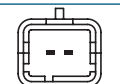


Reemplaza / Suitable:
Renault 82 00 244 869
82 00 412 638
82 00 428 137
82 00 647 559

L

L1
47

ohm
250



NEW 79239

OPEL	
Omega B 2.2 16V	1999-03
Omega B Caravan 2.2 16V	1999-03

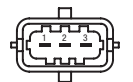


Reemplaza / Suitable:
GM 9148306
Opel 1238341

L
800

L1
24

ohm
550



NEW 79240

FORD		FORD Cont.		MAZDA	
Cougar 2.5 ST 200	2000-01	Mondeo III 3.0 V6 24V	2004-07	MPV II 3.0 V6	2002 ->
Cougar 2.5 V6 24V	1998-01	Mondeo III Kombi 2.5 V6 24V	2000-07	Tribute 3.0 V6 AWD	2004 ->
Maverik 3.0 24V	2004 ->	Mondeo III Kombi 3.0 V6 24V	2004-07		
Maverik 3.0 V6 24V	2001 ->	Mondeo III ST220	2002-07		
Mondeo I 2.5 i 24V	1994-96	Mondeo III 2.5 V6 24V	2000-07		
Mondeo I Kombi 2.5 i 24V	1994-96	Mondeo III 3.0 V6 24V	2004-07		
Mondeo I 2.5 i 24V	1994-96	Mondeo III Sedadrn ST220	2002-07		
Mondeo II 2.5 24V	1996-00				
Mondeo II Kombi 2.5 24V	1996-00				
Mondeo II Kombi 2.5 ST 200	1999-00				
Mondeo II Sedan 2.5 24V	1996-00				
Mondeo III 2.5 V6 24V	2000-07				



Reemplaza / Suitable:
Ford 1S7E-6C315-BA
4096750
4541091
4621599
5L8E-6C315-AB
7103314
F43E-6C315-AC
GY01-18-221
GY07-18-221,A,B

L

L1
37

ohm
300





NEW 79241

MERCEDES BENZ		MERCEDES BENZ Cont.	
Cabriolet 300 CE-24	1992-93	Sprinter 2-t	1995-06
Coupe 300 CE	1987-89	Sprinter 3-t	1995-06
Coupe 300 CE-24	1989-92	Sprinter 4-t	1996-06
E-Class E 300 4-matic	1993-95	Sedan 260 E	1985-92
E-Class Kombi E300T 4	1993-96	Sedan 300 E	1985-85
G-Class 230 GE	1987-92	V-Class V 200	1997-03
Kombi 260 TE FGST.	1985-92	V-Class V 230	1996-03
Kombi 300 TE	1986-93	Vito Bus 113 2.0	1996-03
S-Class 300 SE 2.8	1991-98	Vito Bus 114 2.3	1996-03
S-Class S 280	1993-98	Vito Furgón 113 2.0	1997-03
SL 300 SL	1989-93	Vito Furgón 114 2.3	1997-03
SL 320	1993-01		

Reemplaza / Suitable:
Mercedes 003 153 49 28
003 153 50 28



L
1120

L1
40

ohm
850



NEW 79242

MERCEDES BENZ		MERCEDES BENZ Cont.	
C-Class C 180	1993-00	E-Class 60 AMG	1994-95
C-Class C 200	1994-00	Sedan 400 E	1992-93
C-Class C 220	1993-00	Sedan 500 E	1991-93
C-Class C 280	1993-00	Sedan 500 E AMG	1992-93
C-Class C 36 AMG	1994-00		
C-Class Kombi C 180	1996-00		
C-Class Kombi C 200	1996-01		
CLK 200	1997-02		
CLK Cabrio	1198-02		
E-Class 420	1993-95		
E-Class 500	1993-95		
E-Class 500 AMG	1994-95		

Reemplaza / Suitable:
Mercedes 002 153 90 28
002 153 92 28
002 153 33 28



L
1120

L1
40

ohm
850



NEW 79243

MERCEDES BENZ		MERCEDES BENZ Cont.		MERCEDES BENZ Cont.	
190 2.0	1984-90	E-Class Coupe E 36 AMG	1993-97	Kombi 200 TE	1988-93
190 E 1.8	1990-93	E-Class E 200	1993-95	Kombi 220 TE	1992-93
190 E 2.0	1982-93	E-Class E 220	1993-95	Kombi 280 TE	1992-93
190 E 2.3	1986-93	E-Class E 280	1993-95	S-Class 400 SE,SEL/S420	1991-98
Coupe 220 CE	1992-93	E-Class E 280 largo	1993-95	S-Class 500 SE,SEL	1991-98
Coupe 320 CE	1992-93	E-Class E 320	1993-95	S-Class Coupe SEC/CL 420	1994-99
E-Class Cabriolet E 200	1993-98	E-Class Kombi E 200 T	1993-96	S-Class Coupe SEC/CL 500	1992-99
E-Class Cabriolet E 320	1993-98	E-Class Kombi E 220 T	1993-96	S-Class S 420, 500	1993-98
E-Class Cabriolet E 36 AMG	1994-98	E-Class Kombi E 280 T	1993-96	SL 280	1993-01
E-Class Coupe E 200	1993-97	E-Class Kombi E 320 T	1993-96	SL 500 SL	1989-92
E-Class Coupe E 220	1993-97	E-Class Kombi E 36 T AMG	1994-96	Sedan 200 E -220 E	1992-93
E-Class Coupe E 320	1993-97	G-Class 230 GE	1987 ->	Sedan 280 E - 320 E	1992-93

Reemplaza / Suitable:
Mercedes 002 153 17 28
002 153 43 28
002 153 45 28
003 153 01 28
003 153 08 28



L
875

L1
40

ohm
850



NEW 79244

BMW		BMW Cont.	
3 Cabriolet M3 2.3	1988-91	6 635 CSI	1978-88
3 M3 2.3	1986-91	6 633 CSI	1978-84
3 M3 2.3	1987-89	6 M 635 CSI	1984-89
3 M3 2.3	1989-91	7 732i	1978-86
3 M3 EVO I 2.3	1988-90	7 735 i	1979-86
3 M3 EVO II 2.5	1990-92	7 745 i	1983-86
5 524 d	1986-87		
5 524 td	1983-87		
5 535 i, M 535 i	1985-87		
5 535 i, M 535 i	1985-87		
5 535 i, M 535 i	1985-87		
5 M5 3.5	1985-87		

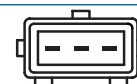
Reemplaza / Suitable:
BMW 12 14 1 708 619
12 14 1 274 644



L
640

L1
56

ohm
900



NEW 79245

BMW	
3 324 d	1985-91
3 324 td	1987-91
3 Touring 324 td	1988-93
5 524 td	1988-95

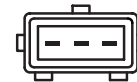
Reemplaza / Suitable:
BMW 13 62 2 242 149



L
380

L1
56

ohm
900



NEW 79246

FORD		FORD Cont.	
Fiesta IV 1.8 Di	2000-02	Transit Connect 1.8 TDCi	2002 ->
Focus 1.8 Di/TDDi	1998-04		
Focus 1.8 TDCi	2001-04		
Focus C-max 1.6	2003-07		
Focus C-max 1.8 TDCi	2005-07		
Focus II 1.8 TDCi	2004 ->		
Galaxy 1.8 TDCi	2006 ->		
Mondeo III 2.0 Di/TDDi/TDCi	2000-07		
Mondeo IV 1.8 TDCi	2007 ->		
S-Max 1.8 TDCi	2006 ->		
Tourneo Connect 1.8 Di	2002 ->		
Transit Connect 1.8 Di	2002 ->		

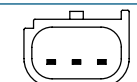
Reemplaza / Suitable:
Ford 1219768
1355063
1S4F12K073-BA
5M5112K073-AA
1132377
154F-12K073-AA



L

L1
26,5

Hall
Effect





NEW 79247

FORD		LAND ROVER	
Mondeo III 2.0 Di/TDDi/TDCi	2000-07	Defender 2.4 TD4	2007 ->
Mondeo III 2.2 TDCi	2004-07		
Transit 2.0 TDCi	2002-06		
Transit 2.2 TDCi	2004-06		
Transit 2.4 TDE	2004 ->		
Transit 2.4 TDCi	2006 ->		



Reemplaza / Suitable:
Ford
1219993
1347419
1358343
1132919
257Q12K073-AA
257Q12K073-BA
257Q12K073-BB
6C1112K073-AA
LR0 04492

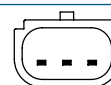
Land Rover

L

L1

26,5

Hall
Effect



NEW 79248

FORD		FORD Cont.		FORD Cont.	
Cougar 2.5 ST 200	2000-01	Mondeo II Kombi 2.5 24V	1996-00	Mondeo III 3.0 V6 24V	2004-07
Cougar 2.5 V6 24V	2000-01	Mondeo II Kombi 2.5ST 200	1999-00	Mondeo III ST220	2002-07
Cougar 2.5 V6 24V	1998-01	Mondeo II 2.5 24V	2000-00	MAZDA	
Maverick 3.0 24V	2004 ->	Mondeo II 2.5 24V	1996-00	MPV II 3.0 V6	2002 ->
Maverick 3.0 V6 24V	2001 ->	Mondeo II 2.5 ST 200	1999-00	Tribute 3.0 V6 AWD	2004 ->
Mondeo I 2.5 i 24V	1994-96	Mondeo II 2.5 V6 24V	2000-07		
Mondeo I Kombi 2.5 i 24V	1994-96	Mondeo III 3.0 V6 24V	2004-07		
Mondeo I 2.5 i 24V	1994-96	Mondeo III 2.5 V6 24V	2000-07		
Mondeo II 2.5 24V	2000-00	Mondeo III 3.0 V6 24V	2004-07		
Mondeo II 2.5 24V	1996-00	Mondeo III Kombi ST220	2002-07		
Mondeo II 2.5 ST 200	1999-00	Mondeo III ST220	2002-07		
Mondeo II Kombi 2.5 24V	2000-00	Mondeo III 2.5 V6 24V	2000-07		



Reemplaza / Suitable:
Ford
1F1E-6B288-AA
1F1E-6B288-AB
3724887
4094767
4469196
7103313
F43E-6B288-AA
GY01-18-230
GY07-18-230
GY07-18-230 A

Mazda

L

L1

37

ohm
350



79249

NISSAN		RENAULT		RENAULT Cont.	
Primastar Bus 2.0	2001 ->	Espace IV 2.0	2002 ->	Megane II Kombi 2.0	2003 ->
Primastar Furgón 2.0	2003 ->	Grand Scénic II 2.0	2004 ->	Megane II Sedan 1.4	2003 ->
OPEL		Laguna II 1.8 16V	2001 ->	Megane II Sedan 2.0	2003 ->
Vivaro 2.0 16V	2001 ->	Laguna II 2.0 16V	2002 ->	Megane III 2.0 16V	2008 ->
Vivaro 2.0 ECOTEC	2006 ->	Laguna II 2.0 16V Turbo	2003 ->	Scénic II 2.0	2003 ->
		Laguna III 2.0 16V Turbo	2007 ->	Scénic II 2.0 16V Turbo	2004 ->
		Laguna III 2.0 GT	2008 ->	Trafic II Bus 2.0	2001 ->
		Laguna III Grandtour 2.0	2007 ->	Trafic II Bus 2.0 16V	2006 ->
		Laguna Coupe 2.0 16V	2008 ->	Trafic II Furgón 2.0	2001 ->
		Megane II 1.4 16V	2002 ->	Trafic II Furgón 2.0 16V	2006 ->
		Megane II 2.0	2003 ->	Trafic II Chasis 2.0	2001 ->
		Megane II Kombi 1.4	2003 ->	Vel Satis 2.0 16V Turbo	2002 ->



Reemplaza / Suitable:
GM
93852584
93857943
Nissan
23750-00Q0D
23750-00QAF
Opel
4413261
4417782
Renault
82 00 260 327
82 00 513 668

L

L1

32

ohm
250



NEW 79250

RENAULT		RENAULT Cont.	
Clio III 1.2 16V	2005 ->	Trafic II Furgón 2.0 dCi 115	2006 ->
Clio III 1.5 dCi	2005 ->	Trafic II Furgón 2.0 dCi 90	2006 ->
Clio III 1.6 16V	2005 ->	Trafic II Furgón 2.5 dCi 145	2006 ->
Clio III 2.0 16V Sport	2006 ->	Trafic II 2.0 dCi 115	2006 ->
Clio Grandtour 1.2 16V	2008 ->	Trafic II 2.0 dCi 90	2006 ->
Clio Grandtour 1.5 dCi	2008 ->	Trafic II 2.5 dCi 145	2006 ->
Clio Grandtour 1.6 16V	2008 ->	Twingo 1.2	2007 ->
Modus 1.2	2004 ->	Twingo 1.5 dCi	2007 ->
Modus 1.5 dCi	2004 ->		
Trafic II Bus 2.0 dCi 115	2006 ->		
Trafic II Bus 2.0 dCi 90	2006 ->		
Trafic II Bus 2.5 dCi 145	2006 ->		



Reemplaza / Suitable:
Renault
82 00 012 097

L

L1

40,6

ohm
470



NEW 79251

DACIA		RENAULT		RENAULT Cont.	
Duster 1.5 dCi	2010 ->	Clio III 1.5 dCi	2005 ->	Megane III 1.5 dCi	2009 ->
Logan 1.5 dCi	2006 ->	Clio Grandtour 1.5 dCi	2008 ->	Modus 1.5 dCi	2004 ->
Logan MCV 1.5 dCi	2007 ->	Grand Scénic II 1.5 dCi	2004 ->	Scénic II 1.5 dCi	2003 ->
NISSAN		Kangoo 1.5 dCi	2008 ->	Scénic III 1.5 dCi	2009 ->
Kubistar 1.5 dCi	2003 ->	Laguna III 1.5 dCi	2007 ->	Twingo 1.5 dCi	2007 ->
Kubistar 1.5 dCi 70	2006 ->	Laguna III Grandtour 1.5 dCi	2007 ->		
Kubistar 1.5 dCi 85	2006 ->	Logan 1.5 dCi	2007 ->		
Micra 1.5 dCi	2005 ->	Logan Kombi 1.5 dCi	2007 ->		
Noet 1.5 dCi	2006 ->	Megane II 1.5 dCi	2005 ->		
Qashqai 1.5 dCi	2007 ->	Megane II Coupé 1.5 dCi	2003 ->		
Tiida Fastback 1.5 dCi	2007 ->	Megane II Kombi 1.5 dCi	2004 ->		
Tiida Sedan 1.5 dCi	2007 ->	Megane II 1.5 dCi	2004 ->		



Reemplaza / Suitable:
Dacia
8200434068
Nissan
23731-BC41A
23750-00Q0B
23750-00QAK
Renault
82 00 187 804
82 00 373 588
82 00 434 068
82 00 691 795

L

L1

47

ohm
700



NEW 79252

NISSAN		RENAULT	
Kubistar 1.5 dCi	2003 ->	Clio III 1.5 dCi	2005-06
Kubistar 1.5 dCi 70	2006 ->	Megane II 1.5 dCi	2002 ->
Kubistar 1.5 dCi 85	2006 ->	Megane II Kombi 1.5 dCi	2003 ->
		Megane II 1.5 dCi	2003 ->
		Modus 1.5 dCi	2004 ->
		Scénic II 1.5 dCi	2003 ->
		Thalia 1.5 dCi	2002 ->



Reemplaza / Suitable:
Nissan
23750-00Q0J
82 00 647 366

L

L1

24

ohm
700





NEW 79253

NISSAN		RENAULT		RENAULT Cont.	
Primastar Bus dCi 120	2006 ->	Espace IV 2.0 dCi	2006 ->	Megane II Kombi 2.0 dCi	2005 ->
Primastar Bus dCi 90	2006 ->	Grand Scénic II 2.0 dCi	2005 ->	Megane III 2.0 dCi	2009 ->
Primastar Furgón dCi 120	2006 ->	Grand Scénic III 2.0 dCi	2009 ->	Scénic II 2.0 dCi	2005 ->
Primastar Furgón dCi 90	2006 ->	Koleos 2.0 dCi	2008 ->	Scénic III 2.0 dCi	2009 ->
QASHQAI 2.0 dCi	2007 ->	Laguna II 2.0 dCi	2005 ->	Trafic II Bus 2.0 dCi 115	2006 ->
X-TRAIL 2.0 dCi	2007 ->	Laguna II Grandtour 2.0 dCi	2005 ->	Trafic II Bus 2.0 dCi 90	2006 ->
X-TRAIL 2.0 dCi	2007 ->	Laguna III 2.0 dCi	2007 ->	Trafic II Furgón 2.0 dCi 115	2006 ->
OPEL		Laguna III 2.0 dCi GT	2008 ->	Trafic II Furgón 2.0 dCi 90	2006 ->
Vivaro Combi 2.0 CDTI	2006 ->	Laguna III Grandtour 2.0 dCi	2007 ->	Trafic II 2.0 dCi 115	2006 ->
Vivaro Furgón 2.0 CDTI	2006 ->	Laguna III 2.0 dCi GT	2008 ->	Trafic II 2.0 dCi 90	2006 ->
Vivaro 2.0 CDTI	2006 ->	Laguna Coupé 2.0 dCi	2007 ->	Vel Satis 2.0 dCi	2006 ->
		Megane II 2.0 dCi	2005 ->		



Reemplaza / Suitable:
G.M. 93198161
Nissan 23731-00Q0D
Opel 4433781
Renault 82 00 668 500

L

L1
44

ohm
850



NEW 79254

NISSAN		RENAULT	
Primastar Bus dCi 100	2001 ->	Grand Scénic II 1.9 dCi	2004 ->
Primastar Bus dCi 80	2001 ->	Megane II 1.9 dCi	2002 ->
Primastar Furgón dCi 100	2002 ->	Megane II Coupé 1.9 dCi	2003 ->
Primastar Furgón dCi 80	2002 ->	Megane II Kombi 1.9 dCi	2003 ->
		Megane II 1.9 dCi	2003 ->
		Scénic II 1.9 dCi	2003 ->
		Trafic II 1.9 dCi 100	2001 ->
		Trafic II 1.9 dCi 80	2001 ->



Reemplaza / Suitable:
Nissan 23731-00Q0F
Renault 82 00 676 078

L

L1
32

ohm
700



79255

FORD		OPEL		SUZUKI Cont.	
Fiesta V 1.25 16V	2002 ->	Agila 1.0	2007 ->	Swift III 1.3, 1.5, 1.6	2005 ->
Fiesta V 1.3	2001 ->	Agila 1.2	2007 ->	SX4 1.5	2006 ->
Fiesta V 1.4	2001 ->	Agila 1.3 CDTI	2007 ->	SX4 1.6	2006 ->
Fiesta V 1.6	2001 ->	SUZUKI		SX4 1.6 VWT	2006 ->
Fiesta V ST150	2005 ->	Grand Vitara 2.0 HDI 110	2001 ->	SX4 1.6 VWT 4x4	2006 ->
Fiesta Van 1.3	2003 ->	Grand Vitara 2.7 XL-7	2001 ->	SX4 1.9 DDIs	2006 ->
Fiesta Van 1.4 TDCi	2003 ->	Ignis II 1.3	2003 ->	SX4 1.9 DDIs 4x4	2006 ->
Fusion 1.25	2004 ->	Ignis II 1.5	2003 ->	SX4 Sedan 1.6	2007 ->
Fusion 1.3	2002 ->	Liana 1.6	2002 ->	SX4 Sedan 2.0	2007 ->
Fusion 1.4	2002 ->	Liana 1.6 4WD	2002 ->	Wagon R 1.0	2003-05
Fusion 1.6	2002 ->	Liana Kombi 1.6	2002 ->	Wagon R+ 1.3	2003 ->
		Liana Kombi 1.6 4WD	2002 ->		



Reemplaza / Suitable:
Ford 1256781
 3N217M101-AA
GM 93196224
Opel 4710773
Suzuki 2614379C10000

L

L1
30,5

ohm
650



NEW 79256

ALFA ROMEO		FIAT		LANCIA	
159 2.2 JTS	2005 ->	Bravo 1.4 T-Jet	2007 ->	Delta III 1.6 D Multijet	2008 ->
159 Sportwagon 2.2 JTS	2006 ->	Bravo 1.6 D Multijet	2008 ->		
Brera 2.2 JTS	2006 ->	Bravo 1.6 D Multijet	2008 ->		
Spider 2.2 JTS	2006 ->	Fiorino 1.3 D Multijet	2008 ->		
		Grande Punto 1.3 D	2005 ->		
		Linea 1.3 D Multijet	2007 ->		
		Qubo 1.3 D Multijet	2008 ->		



Reemplaza / Suitable:
Alfa Romeo 55185789
Fiat 55185789
Opel 784527

L

L1
69

ohm
900



NEW 79257

CITROËN		PEUGEOT	
C4 1.6 HDi	2004 ->	308 1.6 HDi	2007 ->
C4 1.6 THP 150	2008 ->	308 SW 1.6 HDi	2007 ->
C4 Coupe 1.6 HDi	2004 ->		
C4 Grand Picasso 1.6 16V	2008 ->		
C4 Grand Picasso 1.6 HDi	2006 ->		
C4 Grand Picasso 2.0 HDi	2006 ->		
C4 Grand Picasso 2.0 i 16V	2006 ->		
C4 Picasso 1.6 HDi	2007 ->		
C4 Picasso 2.0 HDi	2007 ->		
C4 Picasso 2.0 i 16V	2007 ->		



Reemplaza / Suitable:
Citroën 96.491.911.80
Peugeot 2529.V1

L

L1
21,7

ohm
800



NEW 79258

LAND ROVER		MG	
Defender 2.5 Td5 4WD	1998 ->	MGF 1.8i	1995-02
Defender Pick-up 2.5 Td5	1998 ->		
Discovery II 2.5 Td5	1999-04		



Reemplaza / Suitable:
Land Rover NSC 100790
Rover NCS 100380

L

L1
24

ohm
1300





NEW 79260

RENAULT		VOLVO Cont.		VOLVO Cont.	
Laguna 2.0	1995-01	850 Kombi 2.5	1992-94	S70 2.3 T-5 - Turbo	1997-00
Laguna 2.0 16V	1995-01	850 Kombi 2.5 AWD	1996-96	S70 2.4 - T5 AWD	1996-00
Laguna Grandtour 2.0 16V	1995-01	960 2.9	1990-94	S70 2.4 Turbo	1997-00
Safrane II 2.0 16V	1996-00	960 II 2.5 - Kombi	1994-96	S70 2.5 - Bifuel	1997-00
Safrane II 2.5 20V	1996-00	960 II 2.9 - Kombi	1990-96	S90 2.9	1997-98
VOLVO		C70 I Cabriolet 2.0 - T	1998-05	V70 I Kombi 2.0 - Turbo AWD	1997-00
850 2.0	1991-96	C70 I Cabriolet 2.3 T-5	1998-05	V70 I Kombi 2.3 T-5 - AWD	1997-00
850 2.0 Turbo	1993-96	C70 I Cabriolet 2.5 T	1998-05	V70 I Kombi 2.4	1997-00
850 2.3 T5	1993-96	C70 I Coupe 2.0 - T	1997-02	V70 I Kombi 2.5	1997-00
850 2.5	1991-96	C70 I Coupe 2.3 T-5	1997-02	V70 II 2.3 TS	2000 ->
850 Kombi 2.0 Turbo	1993-96	C70 I Coupe 2.5 T	1997-02	V70 II 2.4	2000 ->
850 Kombi 2.3 T5-R	1993-96	S70 2.0 - Turbo	1997-00	V90 Kombi 2.9	1997-98

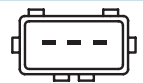


Reemplaza / Suitable:
Bosch 0 232 101 009
0 232 101 023
0 232 101 030
Renault 74 39 146 108
Volvo 1383966
9146108

L
180

L1

Hall
Effect



NEW 79261

AUDI		AUDI Cont.		SKODA	
A3 1.8, quattro	1998 ->	A6 1.8, 2.0, 2.4, 2.7, quattro	1995-05	Octavia 1.8 T, 4x4	1997 ->
A3 1.8 T, quattro	1996 ->	A6 2.8, 4.2, quattro	1995-01	Superb 1.8 T, 2.8 V6	2002-08
A3 S3 quattro	1999 ->	A6 Avant 1.8, 2.0, 2.7, 2.8	1995-05	VOLKSWAGEN	
A4 1.8 T, quattro	1995 ->	A8 2.8, 3.7, 4.2, S8, quattro	1996-02	Bora 1.8	1998-05
A4 2.0	2000 ->	Allroad 2.7 T quattro	2000-05	Golf IV 1.8	1997-05
A4 2.4 quattro	1997-00	TT 1.8 T - Roadster	1998-06	New Beetle 1.8 T	1999 ->
A4 2.8, quattro	1996-00	SEAT		Passat 1.8, 2.0, 2.8	1996-05
A4 Avant 1.8 T, quattro	1996 ->	Alhambra 1.8 T 20V	1997 ->	Phaeton 4.2 V8 4motion	2003 ->
A4 Avant 2.0, 2.4, 2.8, quattro	2001 ->	Ibiza III 1.8T	2000-02	Polo 1.8 GTi Cup Edition	2006 ->
A4 Avant S4 quattro	1997-01	Ibiza IV 1.8 T FR	2003-08	Sharan 1.8 T 20V	1997 ->
A4 Cabriolet 1.8, 2.0, 2.4	2002 ->	Leon 1.8 20V T 4	1999-06	Touareg 4.2 V8	2002-06
A4 S4 quattro	1997-00	Toledo II 1.8 20V	1999-06		

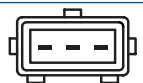


Reemplaza / Suitable:
Bosch 0 232 101 024
0 232 101 025
VW 058 905 161 B

L

L1

Hall
Effect



NEW 79262

AUDI		AUDI Cont.		AUDI Cont.	
100 2.6	1992-94	A4 2.6	1995-00	A6 Avant 2.6 quattro	1994-97
100 2.6 quattro	1992-94	A4 2.6 quattro	1995-00	A6 Avant 2.8	1994-97
100 2.8 E	1990-94	A4 2.8	1995-97	A6 Avant 2.8 quattro	1994-97
100 2.8 E quattro	1990-94	A4 2.8 quattro	1995-97	A8 2.8	1994-96
100 Avant 2.6	1992-94	A4 Avant 2.6	1996-01	A8 2.8 quattro	1994-96
100 Avant 2.6 quattro	1992-94	A4 Avant 2.6 quattro	1996-01	Cabriolet 2.0 E	1993-98
100 Avant 2.8 E	1991-94	A4 Avant 2.8	1996-96	Cabriolet 2.6	1993-98
100 Avant 2.8 E quattro	1991-94	A4 Avant 2.8 quattro	1996-96	Cabriolet 2.8 E	1993-00
80 2.6	1992-94	A6 2.6	1994-97	Coupe 2.6	1992-96
80 2.8	1991-94	A6 2.6 quattro	1994-97	Coupe 2.6 quattro	1992-96
80 2.8 quattro	1991-94	A6 2.8	1994-97	Coupe 2.8	1991-96
80 Avant 2.6	1992-96	A6 2.8 quattro	1994-97	Coupe 2.8 quattro	1991-96

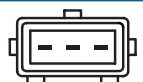


Reemplaza / Suitable:
Bosch 0 232 101 010
0 232 101 011
0 232 101 027
0 232 101 028
VW 078 905 161 A
078 905 161 C
078 905 155

L

L1

Hall
Effect



NEW 79280

VOLVO	
S80 II 3.2	2006 ->
S80 II 3.2 AWD	2007 ->
S80 II T6 AWD	2007 ->
V70 III Kombi 3.0 T6 AWD	2007 ->
V70 III Kombi 3.2	2007 ->
V70 III Kombi 3.2 AWD	2007 ->
XC 70 II 3.2 AWD	2007 ->
XC 90 3.2	2006 ->



Reemplaza / Suitable:
Ford 6G9N6C3151-AB
Volvo 30756106

L

L1
30

ohm
130



NEW 79281

FIAT		RENAULT		RENAULT Cont.	
Scudo 2.0 16V	2004->	Clio II	1998 ->	Thalia	2000 ->
		Espace IV 2.0	2002 ->		
		Fluence 1.6 16V	2010 ->		
		Grand Scénic	2004 ->		
		Kangoo	1997 ->		
		Laguna	1997 ->		
		Megane	1997 ->		
		Megane I	1996 ->		
		Megane II	2002 ->		
		Megane Scénic	1997 ->		
		Scénic I	1999 ->		
		Scénic II	2003 ->		



Reemplaza / Suitable:
Fiat 7700103119
Renault 77 00 103 119

L
230

L1
77,5

ohm
1200



NEW 79283

TOYOTA	
Yaris 1.0 16V	2003 ->
Yaris 1.3	2002 ->
Yaris 1.3 VWT-i	2006 ->



Reemplaza / Suitable:
Toyota 90080-19020

L

L1
33

ohm
2200




NEW 79284

LEXUS		TOYOTA Cont.		TOYOTA Cont.	
IS 200	1999 ->	Avenis Kombi 2.4	2003 ->	Corolla 1.6 VWT-i	2000 ->
RX 300 V6	2000-03	Avenis Liftback 1.6 VWT-i	2000-03	Corolla 1.6 VWT-i	2002 ->
TOYOTA		Avenis Liftback 1.8 VWT-i	2000-03	Corolla Verso 1.6 - 1.8	2002 ->
4 Runner 2.7 i 4x4	1995-96	Avenis Liftback 2.0 VWT-i	2000-03	Corolla Wagon 1.6 16V	2000-02
Avenis 1.6 VWT-i	2003 ->	Avenis S. Wagon 1.6 VWT-i	2000-03	Hiace IV Furgón 2.7 4WD	1998 ->
Avenis 1.8	2003 ->	Avenis S. Wagon 1.8 VWT-i	2000-03	Hiace IV Wagon 2.7	1998 ->
Avenis 1.8 VWT-i	2000-03	Avenis S. Wagon 2.0 VWT-i	2000-03	Hilux Pick-up 2.4 i 4WD	1997 ->
Avenis 2.0	2003 ->	Avenis Sedan 1.6 VWT-i	2003 ->	Land Cruiser 4.0	2003 ->
Avenis 2.4	2003 ->	Avenis Sedan 1.8	2003 ->	MR 2 1.8 16V VT-i	2000 ->
Avenis Kombi 1.6 VWT-i	2003 ->	Avenis Sedan 2.0-2.4	2001 ->	Previa 2.4 16V	2000 ->
Avenis Kombi 1.8	2003 ->	Camry 2.4 VWT-i	2001 ->	RAV 4 II 1.8 VWTi - 2.0 - 2.4	2000 ->
Avenis Kombi 2.0	2003 ->	Celica 1.8 16V VT-i	1999 ->	RAV 4 III 2.0 VWTi	2006 ->

Reemplaza / Suitable:
 Toyota 90190-05026
L
---L1
30ohm
1100
NEW 79285

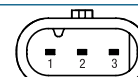
TOYOTA		TOYOTA Cont.	
Auris 1.4 D-4D	2007 ->	Avenis Sedán 2.0D-4D	2006 ->
Auris 2.0 D-4D	2007 ->	Avenis Sedán 2.2 D	2009 ->
Auris 2.2 D	2007 ->	Avenis Sedán 2.2D-4D	2005 ->
Avenis 2.0 D-4D	2006 ->	Corolla 1.4 D	2005 ->
Avenis 2.2 D-4D	2005 ->	Corolla Kombi 1.4 D	2004 ->
Avenis 2.2 D-CAT	2005 ->	Corolla Sedán 1.4 D	2004 ->
Avenis Kombi 2.0 D-4D	2006 ->	Corolla Verso 2.2 D-4D	2005 ->
Avenis Kombi 2.2 D-4D	2005 ->	Land Cruiser 4.5 D V8	2009 ->
Avenis Kombi 2.2 D-CAT	2005 ->	RAV 4 III 2.2 D-4D	2008 ->
Avenis S.Wagon 2.0 D	2009 ->	RAV 4 III 2.2 D-CAT	2006 ->
Avenis S.Wagon 2.2 D	2009 ->	Urban Cruiser 1.4 D-4D	2006 ->
Avenis Sedán 2.0 D	2009 ->	Yaris D-4D	2006 ->

Reemplaza / Suitable:
 Toyota 90919-05029
L
---L1
30ohm
1100
NEW 79286

TOYOTA	
Auris 1.6	2009 ->
Auris 1.6 VWTi	2007 ->
Avenis Station Wagon 1.6	2009 ->
Avenis Station Wagon 1.8	2009 ->
Avenis Station Wagon 2.0	2009 ->
Avenis Sedán 1.6	2009 ->
Avenis Sedán 1.8	2009 ->
Avenis Sedán 2.0	2009 ->
Prius 1.8	2009 ->
RAV 4 III 2.0	2008 ->
RAV 4 III 2.0 FWD	2008 ->

Reemplaza / Suitable:
 Toyota 90919-05070
L
---L1
62ohm
2100
NEW 79287

BMW		BMW Cont.		Mini	
1 130i	2005 ->	6 630i-Cabriolet 630i	2004 ->	Mini Clubman Cooper	2007 ->
1 Cabriolet 125i-135i	2008 ->	7 730 i,Li - 740i-750i	2005 ->	Mini Cooper	2006 ->
1 Coupe 125i-135i	2007 ->	X3 2.5 si-3.0 si	2006 ->	Mini One	2007 ->
3 325i-325xi-330i-335i	2005 ->	X5 3.0 si - xDrive30i	2007 ->	Peugeot	
3 Cabriolet 325i-330i-335i	2007 ->	X6 35i - 50i	2008 ->	207 1.4 16V	2007 ->
3 Coupe 325i-325xi-330i	2006 ->	Z4 2.5 i - 2.5 si -3.0 si	2006 ->	207 1.6 16V VTi	2007 ->
3 Coupe 335i-335xi	2006 ->	Citroën		207 CC 1.6 16V	2007 ->
3 Touring 325i-325xi	2005 ->	C3 Picasso 1.4 - 1.6	2009 ->	207 SW 1.4 16V	2007 ->
3 Touring 330i-335i	2005 ->	C4 1.6 VTI 120	2008 ->	207 SW 1.6 16V	2007 ->
3 Touring 335xi	2007 ->	C4 Coupe 1.6 VTI 120	2008 ->	308 1.4 16V -SW	2007 ->
5 523i-525i-530i-530xi	2005 ->	C4 Grand Picasso 1.6 16V	2008 ->	308 1.6 16V -SW	2007 ->
5 Touring 523i-525i-530i	2005 ->	C4 Picasso 1.6 VTI 120	2008 ->		

Reemplaza / Suitable:
 BMW 13 62 7 561 753
 Peugeot 75 61 7 538 001
 Peugeot 1920.LR
L
---L1
26,5Hall
Effect
NEW 79288

CITROËN		MINI		TOYOTA	
Motores/Engines HDI	2004 ->	Clubman Cooper D	2007 ->	Aygo 1.4 HDI	2005 ->
FORD		Cooper D	2007 ->	VOLVO	
Motores/Engines TDCI	2004 ->	MITSUBISHI		C30 1.6 D	2006 ->
PEUGEOT		Outlander 2.2 DI-D	2007 ->	S40 1.6 D	2005 ->
207 1.6 16V	2006 ->	PEUGEOT		V 50 1.6 D	2005 ->
207 1.6 HDi	2006 ->	Motores/Engines HDI	2004 ->		
207 CC 1.6 HDi	2007 ->				
207 SW 1.6 HDi	2007 ->				
308 1.6 HDi	2007 ->				
308 SW 1.6 HDi	2007 ->				

Reemplaza / Suitable:
 Citroën 96.643.873.80
 Ford 1517990
 8S6Q-9E731-AA
 Mini 13 62 7 808 449
 Mitsubishi MN-982334
 Peugeot 1920.PW
 Toyota SU001-00873
 Volvo 31216677
L
---L1
---Hall
Effect
NEW 79289

FORD		FORD Cont.		PEUGEOT Cont.	
C4 2.0 HDi	2004 ->	Ulysse 2.0 D Multijet	2006 ->	407 Coupe 2.0 HDi	2005 ->
C4 Coupe 2.0 HDi	2004 ->	Focus II 2.0 TDCi	2004 ->	407 SW 2.0 HDi 135	2004 ->
C4 Grand Picasso 2.0 HDi	2006 ->	Galaxy 2.0 TDCi	2006 ->	607 2.0 HDi	2005 ->
C4 Picasso 2.0 HDi	2007 ->	Kuga 2.0 TDCi	2008 ->	807 2.0 HDi	2006 ->
C5 2.0 HDi	2004 ->	S-Max 2.0 TDCi	2006 ->	Expert Furgón 2.0 HDi 140	2007 ->
C5 Break 2.0 HDi	2004 ->	LANCIA		VOLVO	
C8 2.0 HDi	2006 ->	Phedra 2.0 D Multijet	2006 ->	C30 2.0 D	2006 ->
C-Max 2.0 TDCi	2007 ->	PEUGEOT		C70 II Cabriolet 2.0 D	2008 ->
Focus C-Max 2.0 TDCi	2003-07	307 2.0 HDi 135	2003 ->	S40 II 2.0 D	2004 ->
Jumpy 2.0 HDi 140	2007 ->	308 2.0 HDi	2007 ->	V50 2.0 D	2004 ->
Mondeo IV 2.0 TDCi	2007 ->	308 SW 2.0 HDi	2007 ->	V70 III Kombi 2.0 D	2007 ->
Scudo 2.0 D Multijet	2007 ->	407 2.0 HDi 135	2004 ->		

Reemplaza / Suitable:
 Citroën 96.436.957.80
 96.648.938.80
 Fiat 9643695780
 Ford 1231925
 3M5Q-9E731-AA
 Peugeot 1920.GJ
 Volvo 8653703
L
---L1
---Hall
Effect



NEW 79290

OPEL	FIAT	PEUGEOT Cont.
C4 2.0 HDi 2004 ->	Scudo 2.0 D Multijet 2007 ->	607 2.0 HDi 2005 ->
C4 Coupe 2.0 HDi 2004 ->	Scudo Furgón 2.0 D Multijet 2007 ->	807 2.0 HDi 2006 ->
C4 Grand Picasso 2.0 HDi 2006 ->	Ulysse 2.0 D Multijet 2006 ->	Expert Furgón 2.0 HDi 120 2007 ->
C4 Picasso 2.0 HDi 2007 ->		Expert 2.0 HDi 120 2007 ->
C5 2.0 HDi 2004 ->		Expert Tepee 2.0 HDi 120 2007 ->
C5 Break 2.0 HDi 2004 ->		Expert Tepee 2.0 HDi 140 2007 ->
C8 2.0 HDi 2007 ->		
Jumpy 2.0 HDi 120 2007 ->		

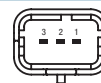


Reemplaza / Suitable:
Citroën 96.647.321
Fiat 9664732180
Peugeot 1920.QS

L

L1

Hall
Effect



NEW 79292

AUDI	AUDI Cont.	SKODA Cont.
A3 1.8 TFSI, 2.8 2004 ->	A8 2.8, 3.2, 4.2 2005 ->	Yeti 1.8 TSI 4x4 2009 ->
A4 1.8 TFSI, 2.0 2007 ->	A8 S8 quattro 2006-10	
A4 2.7 TDI, 3.0 2007 ->	Q5 2.0, 3.0, 3.2 2008 ->	Eos 2.0 TFSI 2006 ->
A4 3.2 FSI 2005 ->	Q7 3.0, 4.2, 6.0 2006 ->	Golf V 2.0 2004 ->
A4 RS4 quattro, S4 2005 ->	R8 4.2 FSI quattro, 5.2 2007 ->	Jetta III 2.0 TFSI 2005 ->
A5 1.8, 2.0, 2.7, 3.0, 3.2 2007 ->	TT 1.8 TFSI, 2.0 2006 ->	Passat 1.8, 2.0 2005 ->
A5 S5 quattro 2007 ->		Phaeton 3.0 V6 TDI 2007 ->
A6 2.4 2004-08	Altea 1.8 TFSI 2007 ->	Scirocco 2.0 TSI 2008 ->
A6 2.7 TDI, 2.8 FSI 2005 ->	Leon 2.0 FSI 2005 ->	Tiguan 2.0 TFSI 4motion 2007 ->
A6 3.0 TDI quattro, TFSI 2005 ->		Touareg 3.0 V6 TDI 2007-10
A6 3.2 FSI, 4.2 2004 ->	Octavia 2.0 RS 2005 ->	Touareg 4.2 V8 FSI 2006-10
A6 RS6 quattro, S6 2006 ->	Superb 1.8 TSI 2008 ->	

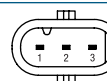


Reemplaza / Suitable:
Audi 03C 906 433 B
Seat/Skoda 06H 905 163 A
VW 07L 905 163

L

L1
24

Hall
Effect



NEW 79293

AUDI	SEAT	VOLKSWAGEN
A3 1.6 1996 ->	Leon 1.6 1999-06	Bora 1.6 1998-05
	Toledo II 1.6 1999-00	Bora Kombi 1.6 1999-05
		Golf IV 1.6 1997-05
		Golf IV Variant 1.6 1999-00
		Polo Variant 1.6 1997-01

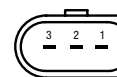


Reemplaza / Suitable:
VW 07K 907 601 A

L

L1
24

Hall
Effect



NEW 79294

AUDI	SKODA	VOLKSWAGEN
A3 1.8 TFSI 2006 ->	Octavia 1.8 TSI 2007 ->	Passat 1.8 TSI 2007 ->
A3 Cabriolet 1.8 TFSI 2008 ->	Octavia Combi 1.8 TSI 2007 ->	Passat CC 1.8 TSI 2008 ->
A3 Sportback 1.8 TFSI 2006 ->	Superb 1.8 TSI 2008 ->	Passat Variant 1.8 TSI 2007 ->

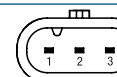


Reemplaza / Suitable:
VW 02T 906 207

L

L1
23,8

Hall
Effect



NEW 79295

FIAT
Cinquecenti 1.1 Sporting 1994-98
Seicento 1.1 1998 ->

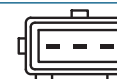


Reemplaza / Suitable:
Fiat 46417650
46764212
5189513

L
935

L1
34,5

ohm
1100



NEW 79296

FIAT
Panda 1.1 2003 ->
Panda 1100 1995-03
Panda 1100 4x4 1995-04
SEicento 1.1 1998 ->

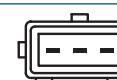


Reemplaza / Suitable:
Fiat 46778331
55189514
Peugeot 5940.09

L
800

L1
34,5

ohm
1100





NEW 79297

AUDI		LANCIA	
Marea 2.4 TD 125	1996-99	Kappa 2.0 20V	1994-01
Marea Weekend 2.4 TD 125	1996-99	Kappa 2.0 20V Turbo	1998-01
		Kappa 2.4 20V	1994-01
		Kappa 2.4 T.DS	1994-01
		Kappa Coupe 2.0 20V	1996-01
		Kappa Coupe 2.0 20V Turbo	1998-01
		Kappa Coupe 2.4 20V	1996-01
		Kappa SW 2.0 20V	1996-01
		Kappa SW 2.0 20V Turbo	1998-01
		Kappa SW 2.4 20V	1996-01
		Kappa SW 2.4 T.DS	1996-01



Reemplaza / Suitable:
Fiat 7790917

L
480

L1
34,5

ohm
900



NEW 79301

HYUNDAI	
Terracan 2.9 CRDi	2003 ->
Terracan 2.9 CRDi 4WD	2001 ->



Reemplaza / Suitable:
Hyundai 39600-4X100

L
540

L1
24

ohm
900



NEW 79302

KIA	
Carnival III 2.9 CRDi	2006 ->



Reemplaza / Suitable:
Kia 39600 4X300

L
350

L1
24

ohm
900



NEW 79303

HYUNDAI		KIA	
Accent 1.5 CRDi GLS	2005 ->	Cee'd Kombi 1.6 CRDi	2007 ->
Accent Sedan 1.5 CRDi GLS	2005 ->	Cee'd Fastback 1.6 CRDi	2006 ->
Getz 1.5 CRDi	2005 ->	Cerato 1.5 CRDi	2005 ->
Getz 1.5 CRDi GLS	2005 ->	Cerato 1.6 CRDi	2005 ->
i30 1.6 CRDi	2007 ->	Cerato Sedan 1.5 CRDi	2005 ->
Matrix 1.5 CRDi	2004 ->	Cerato Sedan 1.6 CRDi	2005 ->
Matrix 1.5 CRDi VGT	2005 ->	Rio II 1.5 CRDi	2005 ->
		Rio II Sedan 1.5 CRDi	2005 ->

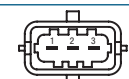


Reemplaza / Suitable:
Hyundai 39180-2A100
39180-2A200

L
375

L1
24

ohm
900



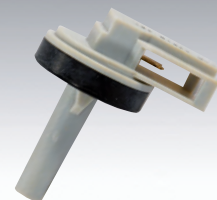
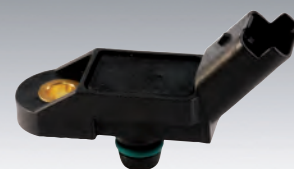
Packaging



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