



**Your Global Partner
in Lighting Solutions**

Flashers & Light Modules

**High Quality
Rapid Delivery
Personal Service**



599 Bond Street, Lincolnshire, IL 60069-4226



(847) 821-1199;(800) 572-4168;(847) 821-1133 (Fax)

www.ceclighting.com

INDEX

Form #900 Flasher Products

Form #897 Flasher Selling Guide

Form #935 OEM Interchange

Form #240 Flasher Interchange

New Item Announcements

AR301C	AR401C	AR502C	BR1
EF2C	EF3C	EF22	EF30WW
EF30WWK	EF32LF	EF32LFK	EF32SS
EF33K	EF40K	EF47	EF552
TF535			

Selling Guide sheets List

Electronic	2Pin Heavy Duty	3Pin Heavy Duty	
24Volt	Lighting Control	Lighting Control	Thermal

Form #1012 Compliance

Form #1049 UPC Codes

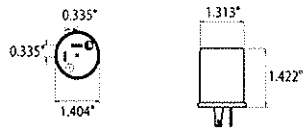
****Please refer to our website for complete listing***
<http://cecindustries.com>



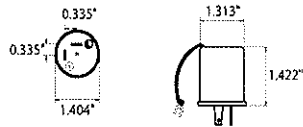
Your Global Partner
in **Lighting** Solutions

**2007
FLASHER
PRODUCTS**

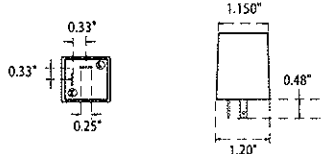
**High Quality
Rapid Delivery
Personal Service**

EF32

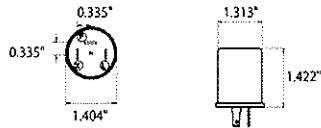
- EF32 12 Lamp 2 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 25 Amp, 1 to 12 Lamp Capacity

EF32RL

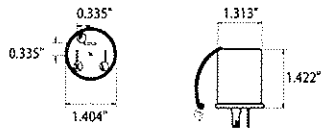
- EF32RL Self Adjusting, 2 Terminal, LED Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design, External wire provides ground
 - Automatically adjusts to LED current draw
 - Steady Flash Rate for all LED applications
 - 11-15 volt, 0.10 to 25 Amp Max Capacity

EF32H

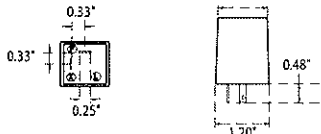
- EF32H 12 Lamp 2 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours of continuous operation
 - 60-120 Flasher per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 25 Amp, 1 to 12 Lamp Capacity

EF33

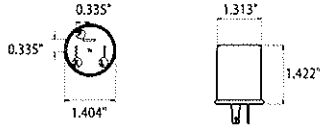
- EF33 12 Lamp 3 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 25 Amp, 1 to 12 Lamp Capacity

EF33RL

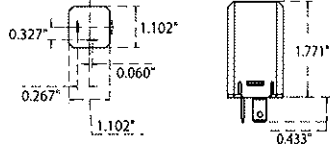
- EF33RL Self Adjusting 3 Terminal LED Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design, External wire provides ground
 - Automatically adjusts to LED current draw
 - Steady Flash Rate for all LED applications
 - 11-15 volt, 0.10 to 25 Amp Max Capacity

EF33H

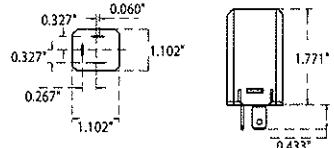
- EF33H 12 Lamp 3 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours of continuous operation
 - 60-120 Flasher per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 25 Amp, 1 to 12 Lamp Capacity

EF33W

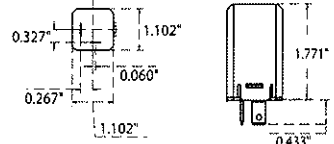
- EF33W 12 Lamp 3 Terminal Electronic Flasher (Weatherproof)**
- Heavy Duty Design
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 6.75 -15 volt, 25 Amp Bi-Polar Design

EF40

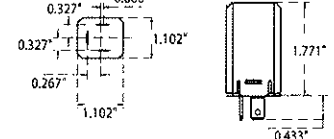
- EF40 16 Lamp 2 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours continuous operation.
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 35 Amp, 1 to 16 Lamp Capacity

EF41

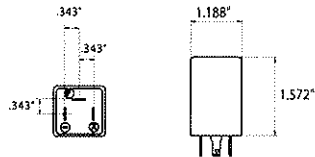
- EF41 16 Lamp 3 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours continuous operation.
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 35 Amp, 1 to 16 Lamp Capacity

EF42

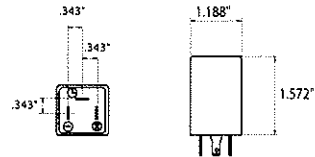
- EF42 20 Lamp 2 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours continuous operation.
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 45 Amp, 1 to 20 Lamp Capacity

EF43

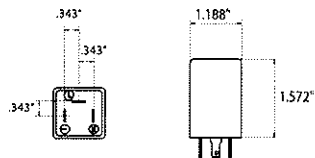
- EF43 20 Lamp 3 Terminal Electronic Flasher**
- FMVSS 108 SAE J945, J590, and 1690 Class A
 - Heavy Duty Design Rated for 100 hours continuous operation.
 - 60-120 Flashes per minute
 - Fits all Standard Round Sockets
 - 11-15 volt, 45 Amp, 1 to 20 Lamp Capacity

EF34**EF34****Fixed Load Electronic Flasher Turn Signal/Hazard Warning Flasher**

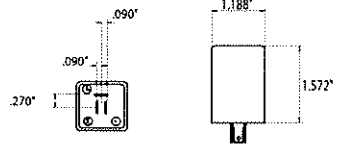
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Sockets found in newer import cars & trucks
- 11-15 volt, Fixed Load 2 lamps for turn signal / 4 lamps for hazard warning

EF35**EF35****Fixed Load Electronic Flasher Turn Signal/Hazard Warning Flasher**

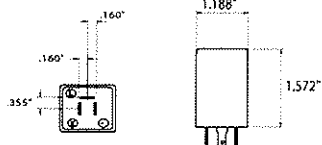
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Sockets found in newer import cars, trucks & some American Vehicles
- 11-15 volt, Fixed Load 2 lamps for turn signal / 4 lamps for hazard warning

EF36**EF36****Fixed Load Electronic Flasher Turn Signal/Hazard Warning Flasher**

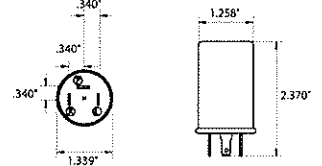
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Sockets found in newer import cars, trucks & some American Vehicles
- 11-15 volt, Fixed Load 3 lamps for turn signal / 6 lamps for hazard warning

EF37**EF37****Fixed Load Electronic Flasher Turn Signal/Hazard Warning Flasher**

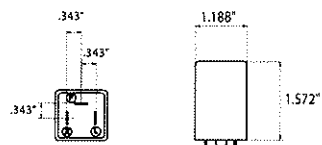
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Sockets found in newer import cars, trucks & some American Vehicles
- 11-15 volt, Fixed Load 2 lamps for turn signal / 4 lamps for hazard warning

EF39**EF39****Fixed Load Electronic Flasher Turn Signal/Hazard Warning Flasher**

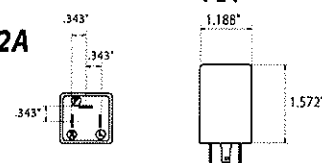
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Sockets found in newer import cars, trucks & some American Vehicles
- 11-15 volt, Fixed Load 2 lamps for turn signal / 4 lamps for hazard warning

EF23**EF23****24 Volt Electronic Flasher**

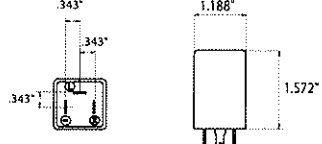
- FMVSS 108 SAE J945, J590, and 1690 Class A
- 3 Terminal Double Flash Rate Design for Lamp Outage
- Flash Rate Electronically Timed
- Fits all Standard Round Sockets
- 22-30 volt, 15 amp capacity, 1 to 10 lamps

EF30A**EF30A****Heavy Duty Alternating Flasher**

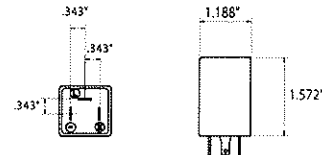
- FMVSS 108 SAE J1054
- Heavy Duty 3 Terminal Design
- Flash Rate Electronically Timed
- Fits all Standard Round Sockets
- 11-15 volt, 15 amp per side, 1 to 7 lamps capacity

EF3012A**EF3012A Heavy Duty Alternating Flasher**

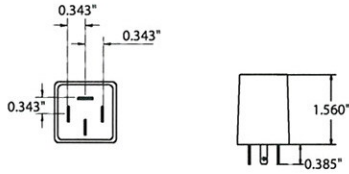
- FMVSS 108 SAE J1054
- Heavy Duty 3 Terminal Design
- Flash Rate Electronically Timed
- Fits all Standard Round Sockets
- 11-15 volt, 25 amp per side, 1 to 12 lamps capacity

EF31**EF31****Special Electronic Flasher for Postal Vehicles**

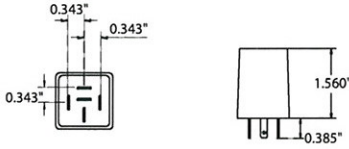
- FMVSS 108 SAE J945, J590, and 1690 Class A
- Heavy Duty 3 Terminal Design
- Variable Load Special Flasher
- Fits all Standard Round Sockets
- 11-15 volt, 12 amp, 1 to 12 lamps capacity

EF31L**EF31L****LED Flasher**

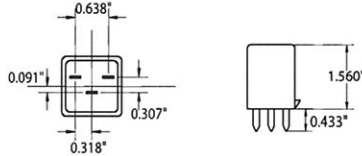
- FMVSS 108 SAE J945, J590, and 1690 Class A
- No external ground wire
- Heavy Duty 3 Terminal Design
- Automatically adjusts to LED current draw
- Fits all Standard Round Sockets
- 11-15 volt, 0.10 to 20 amp, 1 to 12 lamps capacity

EF26**EF26****12 Lamp 4 Terminal Electronic Flasher**

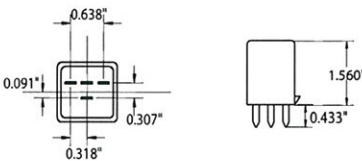
- * FMVSS 108 SAE J590b, J945 & J1690 Class A
- * 4 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 3 lamps for turn signal / 6 lamps for hazard warning

EF27**EF27****12 Lamp 5 Terminal Electronic Flasher**

- * FMVSS 108 SAE J590b, J945 & J1690 Class A
- * 5 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 2 lamps for turn signal / 4 lamps for hazard warning

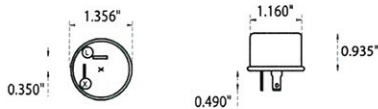
EF28**EF28****12 Lamp 3 Terminal Electronic Flasher**

- * FMVSS 108 SAE J590b, J945 & J1690 Class A
- * 3 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 2 lamps for turn signal / 4 lamps for hazard warning

EF29**EF29****12 Lamp 4 Terminal Electronic Flasher**

- * FMVSS 108 SAE J590b, J945 & J1690 Class A
- * 4 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 3 lamps for turn signal / 6 lamps for hazard warning

Thermal Flasher

TF552/536**TF552/536 Thermal (Bi-Metal) Variable Load Flasher**

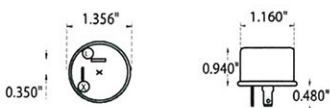
- * FMVSS 108 SAE J590, J1590
- * Heavy Duty 2 Terminal Design
- * 60-120 Flashers per minute
- * Fits all Standard Round Sockets
- * 11-15 volts, 2 to 3 lamps for turn signal / 2 to 6 lamps for hazard warning

TF550**TF550 Thermal (Bi-Metal) Variable Load Flasher**

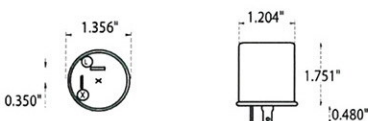
- * FMVSS 108 SAE J590, J945
- * Heavy Duty 3 Terminal Design
- * 60-120 Flashers per seconds
- * Fits all Standard Round Sockets
- * 11-15 volts, 2 to 3 lamps for turn signal / 2 to 6 lamps for hazard warning

TF569**TF569 Thermal (Bi-Metal) Variable Load Flasher**

- * FMVSS 108 SAE J945 & J590
- * Heavy Duty 3 Terminal Design
- * 60-120 Flashers per second
- * Fits all Standard Round Sockets
- * 11-15 volts, 2 to 3 lamps for turn signal / 2 to 6 lamps for hazard warning

TF575**TF575 Thermal (Bi-Metal) Variable Load Flasher**

- * FMVSS 108 SAE JJ945 & J590
- * 4 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 3 lamps for turn signal / 6 lamps for hazard warning

TF577**TF577 Thermal (Bi-Metal) Variable Load Flasher**

- * FMVSS 108 SAE JJ945 & J590
- * 4 Terminal Double Flash Rate Design for Lamp Outage
- * 60-120 Flash per seconds
- * Fits specific application sockets
- * 11-15 volts, Fix load 3 lamps for turn signal / 6 lamps for hazard warning



Selling Guide for Flashers

Trailer Towing for pleasure or for work.....

Refer to application guide for complete information.



Commercial Delivery Vehicles.....

EF32, EF33

Commercial Delivery Vehicles Continuous Service

EF32H, EF33H, EF32SS

Commercial Delivery Vehicles with LED lamps or Incandescent Lamps

EF32RL, EF33RL, EF31L



Single Tractor Trailer Unit.....

EF32, EF33

Single Tractor Trailer Unit Continuous Service

EF32H, EF33H, EF32SS

Single Tractor Trailer Units with LED lamps or Incandescent Lamps

EF32RL, EF33RL, EF31L



Double Tractor Trailer Unit.....

EF40, EF41, EF47



Triple Tractor Trailer Unit.....

EF42, EF43



24 Volt Bus and Construction Vehicles.....

EF22, EF23



Police & Emergency Vehicles.....

EF30A, EF3012A, EF30AL, EF30WW





**Your Global Partner
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FLASHER AND LIGHT MODULE OEM INTERCHANGE GUIDE

**High Quality
Rapid Delivery
Personal Service**

MFG #	CEC #		MFG #	CEC #		MFG #	CEC #
B00166830A	EF37		KKY0166830	EF37		111953227A	EF35
B552001P00	EF34		MB031754	EF32		111953227D	EF35
B573088E00	EF34		MB031755	EF32		11515961	EF36
C38850	TF550		MB031756	TF552/536		11516051	EF29
C5AZ 13350 B	EF32		MB084668	EF32		11516136	EF28
C6AZ 13350 B	EF32		MB084674	TF552/536		12101242	EF35
DAC1731	EF34		MB140910	EF32		12450013	EF28
DAC6081	EF35		MB140960	EF32		12450019	EF27
DPP10568	EF32LFLK		MB141033	EF34		12450020	EF27
D1FZ 13350A.	EF32		MB183875	EF32		12450054	EF28
D87Z 13350 A.	EF32		MB302373	EF34		12450057	EF28
D9RZ 13350 A.	EF32		MB305020	EF34		12450070	EF27
E5RY 13350 A.	EF35		MB337601	EF34		12450072	EF29
E6AZ 13350 A.	TF552/536		MB338222	EF34		12450099	EF28
E7GZ 13350 A.	EF34		MB338226	EF34		12450284	LM487
E7RY 13350 A.	EF35		MB338228	EF32		12450329	EF29
E8AZ 13350 A.	EF37		MB541510	EF34		12513365	EF30A
E80Y 13350 A.	EF32		MB627891	EF34		12596151	EF35
E92Z 13350 A.	EF37		MB627892	EF34		13637863	EF35
FA0267577	EF37		MB627893	EF34		13964374	EF35
FB0167564	EF32LFLK		MB627894	EF34		147266840A	EF37
DDO167580	EF32LFLK		MB649048	EF34		15231200	LM455
F0DZ 13350 A.	EF34		MB823881	EF34		15231201	LM487
F0JY 13350 A.	EF34		MB943259	EF34		15405678	EF36
F02Z 13350 A.	EF34		MR172080	EF34		15504673	EF32
F2US 13350 AB	EF35		MR252921	EF34		15526832	EF32
F2UZ 13350 A.	EF34		MR461315	EF34		15607059	EF36
F2UZ 13350 AA	EF34		MR563835	EF34		15607060	EF35
F3ZY 13350 A.	EF34		P00166830A	EF37		15648653	EF32
F3XY 13350 A.	EF34		T0733267	EF33		15764135	LM487
F4BZ 13350 A.	EF37		XF5Z 13350 AA	EF34		16077566	EF32
F4TZ 13350 A.	EF34		YF1T 13350 AA	EF34		1636128	EF32
F4ZZ 13350 A.	EF27		YF1Z 13350 AA	EF34		1645314	EF32
F5RZ 13350 A.	EF34		YL3Z 13350 AA	EF27		1647003	EF32
F5XZ 13350 AAA	EF34		ZZL0-66-830	EF32		175567562	EF37
F58Z 13350 A.	EF27		ZZL1-66-830	EF32		175767562	EF37
F6DZ 13350 AA	EF34		ZZM0-66-830	EF32		188166830A	EF37
F6Z 13350 AA.	EF27		ZZM1-66-830	EF32		188166840	EF37
F65Z 13350 AA	EF27		0K01166830	EF32LFLK		191953227	EF35
F67Z 13350 AA	EF27		9442893	EF28		191953227A	EF35
F67Z 13350 BA	EF27		1F80-66-630	EF27		1999354	EF28
F7CZ 13350 AA	EF37		1H0953227	EF35		21020326	EF35
F7LZ 13350 AA	EF34		1J0953235J	EF35		22642606	EF32
F7XZ 13350 AA	EF34		10039390	EF32		25520-B8060	TF552/536
F8DZ 13350 AA	EF34		10041073	EF32		25520-89966	TF552/536
F8RZ 13350 AA	EF35		10041074	EF32		25520-89983	EF34
G03066830B	EF37		10178780	EF32		25520-89996	TF552/536
HE0166830	EF37		10224868	EF32		25520-89997	TF552/536
JLM11177	EF32LFLK		10383320	LM455		25520P7100	EF34
J3212067	EF32		10383321	LM487		2552001P00	EF34
J3212068	EF32		10383322	LM487		25525-P9700	EF32
J3217282	EF32		10401280	EF32		25654870	LM442
J3226900	EF32		111953227	EF35		25684395	EF32
J5452266	TF552/536						
KHE0166830	EF32LFLK						

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[Back to Index](#)

CEC Industries LTD. Flasher Interchange

CEC Number	Wagner	NAPA	CARQUEST	BUSS	Petersen	Ideal	Tridon	Littelfuse	Grote	Signal Stat	Truck Lite	Velvac	KD	Hella	Echlin	
EF22		EG22	FSH22				EG22		44850	120						
EF23		EG23	FSH23	234			EG23		44860	121	263-4			87723		
EF26		EP26	FSH7126				EP26	s								
EF27		EP27	FSH7127				EP27		44090		97283					
EF28	6136	EP28	FSH6136	761			EP28									
EF29	6051	EP29	FSH6051	762			EP29		44120							
EF30A	537	EL13A1	FSH7140	246		524	EL13A1	EFL300			537A	091214	2526-001		596T	
EL30AL			FSHEF30A													
EF30WW		EL13A2	FSHEF30WW				EL13A2		44730	286						
EF30WWK		EL12A2K	FSHEF30WWK				EL12A2K									
EF3012A			FSHEF3012A		PM579						286					
EF31		EL11	FSHEF31								266					
EF31L		EL11L1	FSHEF31L						44892							
EF32	7210	EL12	FSH7212	232	PM554	752	EL12	EFL102	44810	250 / 262	262	091206	2590-001	87712	582T	
EF32H	7212	EL12H	FSHEF32H	243	PM570				44530		172	091208				
EF32SS		EL12L2	FSHEF32SS								243					
EF32LF		LF12	FSHEF32LF				LF12									
EF32LFK		LF12K	FSHEF32LFK				LF12K									
EF32RL		EL12L1	FSHEF32RL						44891		285					
EF552		552LL	FSHEF552													
EF33	7310	EL13	FSH7312	233	PM557	750	EL13	EFL103	44820	252 / 263	263	091207	2591-001	66413	583T	
EF33H	7312	EL12H	FSHEF33H	244	PM571				44540		173	091209				
EF33RL		EL13L1	FSHEF33RL						44890							
EF33W		EL13W	FSHEF33W													
EF34	7058	EP34	FSH7058	758	PM558	768	EP34	EFL243	44750	263/267D				66051	584T	
EF35	7060	EP35	FSH7060	760		760	EP35	EFL233	44760	264D	264			87400		
EF36	7059	EP36	FSH7059	759	PM559	772	EP36	EFL363	44800	266D	266				588T	
EF37	7057	EP33	FSH7057	757		764	EP33	EFL231								
EF39	7056	EP32		756		766	EP32	EFL232								
EF40	7216	EP37	FSH7216	763	PM573		EP37		44690		182	091212				
EF40K		EP37K	FSHEF40K				EP37K									
EF41	7316		FSH7316		PM574				44700	275	183					
EF42	7220	EP50	FSH7220	764	PM576		EP50		44710	282	282					
EF43	7320		FSH7320		PM577				44720	283	283					
EF47		HT47	FSHEF47				HT47									
ELM442R4		LM442	FSHELM442				LM442									
ELM449		LM449														
ELM455R4		LM455	FSHELM455				LM455									
ELM458R4		LM458	FSHELM458				LM458									
ELM463		LM463														
ELM465		LM465	FSHELM465				LM465									
ELM468		LM468														
ELM470		LM470														
ELM476R6		LM476	FSHELM476				LM476									
ELM487R4		LM487	FSHELM487				LM487		44140							
ELM502R6		LM502	FSHELM502				LM502		44160							
850	850/5X			850						243					583	
852	852/5X			852						242					582	
TF535		535														
TF552/536	224		552	224						144						
TF552/536	323		552	323												
TF552/536	536	552	552	536		536	552	FLR536/552		536	536				536	
TF552/536	552	552	552	552	552F		552	FLR536/552	44310	552	552		255-2001		552	
TF550	550	550	FSH550	550		550	550	FLR550	44320	550	550				550	
TF575	575F			575		575										
TF569	591			569		569									591	
TF577						577										
	Note:	Information shown was obtained from reliable sources and are believed to accurate at this time.														
		Although CEC believes the information to be correct, no warranty is made or implied as to the accuracy of this information , and CEC does not accept or assume any responsibility for errors, changes omissions, or for harm resulting therefrom.														
		Availability to be determined														



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New Product Announcement

Date: 02/02/2009

Part Number: AR301C

Country of Origin: Taiwan

Ten Code: 8539293060 Six Code: 293060



3 Pin, ISO Pin Style Wire Harness
3 Colored Wires, 160mm Length

Product Specification

Description: AR301C, 3 Pin Wire Harness

of Terminals: 3 No of Lamps Flashed to Case Material: Plastic

Operation Range: Pilot Circuit: LED Compatible:

Terminal Markings: Double Flash Rate
Lamp Outage:

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 04183	9	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
Width Inches		Width Inches		Width Inches	
Height Inches		Height Inches		Height Inches	
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.042					

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New Product Announcement

Date: 02/02/2009

Part Number: AR401C

Country of Origin: Taiwan

Ten Code: 8539293060 Six Code: 293060



4 Pin, ISO Pin Style Wire Harness
4 Colored Wires, 158mm Length

Product Specification

Description: AR401C, 4 Pin Wire Harness

of Terminals: 4 No of Lamps Flashed: to Case Material: Plastic

Operation Range: Pilot Circuit: LED Compatible:

Terminal Markings: Double Flash Rate:
Lamp Outage:

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 04182	2	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
Width Inches		Width Inches		Width Inches	
Height Inches		Height Inches		Height Inches	
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.054					

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New Product Announcement

Date: 02/02/2009

Part Number: AR502C

Country of Origin: Taiwan

Ten Code: 8539293060 Six Code: 293060



5 Pin, ISO Pin Style Wire Harness
5 Colored Wires, 158mm Length

Product Specification

Description: AR502C, 5 Pin Wire Harness

of Terminals: 5 No of Lamps Flashed: to Case Material: Plastic
Operation Range: Pilot Circuit: LED Compatible:
Terminal Markings: Double Flash Rate:
Lamp Outage:

Product UPC & Packaging Information

UPC Code	Inner UPC Code	Master UPC Code
014271 04181 5	10	20
Standard Pack Qty	Inner Case Pack Qty	Master Case Pack Qty
1		
Length Inches	Length Inches	Length Inches
Width Inches	Width Inches	Width Inches
Height Inches	Height Inches	Height Inches
Weight Lbs.	Weight Lbs.	Weight Lbs.
0.07		

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New Product Announcement

Date: 02/02/2009

Part Number: BR1

Country of Origin: Taiwan

Ten Code: 8536610000 Six Code: 610000



Bracket

Designed For Remote Flasher Mounting Where...

Positioning For An Audible Flasher Is Required.

Replacement Unit Is Too Large For The Older Fuse Panels.

Ease Of Future Replacement Is Required.

Product Specification

Description: BR1 Mounting Bracket

# of	No of Lamps	Case Material:
Terminals:	Flashed	
Operation	Pilot Circuit:	LED Compatible:
Range:		
Terminal Markings:		Double Flash Rate
		Lamp Outage:

Product UPC & Packaging Information

UPC Code	Inner UPC Code	Master UPC Code
014271 04266 9	10	20
Standard Pack Qty	Inner Case Pack Qty	Master Case Pack Qty
1		
Length Inches	Length Inches	Length Inches
Width Inches	Width Inches	Width Inches
Height Inches	Height Inches	Height Inches
Weight Lbs.	Weight Lbs.	Weight Lbs.
0.07		

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New Product Announcement

Date: 2/02/2009

Part Number: EF2C

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



Wiring Harness designed for remote flasher mounting.

Product Specification

Description: EF2C Wiring Harness Designed For Remote Flasher Mounting.

# of	<u>2</u>	No of Lamps	<u> </u>	Case Material:	<u> </u>
Terminals:		Flashed	<u> </u> to <u> </u>		
Operation		Pilot Circuit:	<u> </u>	LED Compatible:	<u> </u>
Range:				Double Flash Rate	<u> </u>
Terminal Markings:	<u> </u>			Lamp Outage:	<u> </u>

Product UPC & Packaging Information

UPC Code			Inner UPC Code			Master UPC Code		
014271 04185	3		10			20		
Standard	Pack	Qty	Inner	Case	Pack Qty	Master	Case	Pack Qty
<u>1</u>								
Length	Inches		Length	Inches		Length	Inches	
Width	Inches		Width	Inches		Width	Inches	
Height	Inches		Height	Inches		Height	Inches	
Weight	Lbs.		Weight	Lbs.		Weight	Lbs.	
<u>0.058</u>								

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New Product Announcement

Date: 2/02/2009

Part Number: EF3C

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



Wiring Harness designed for remote flasher mounting.

Product Specification

Description: EF3C Wiring Harness Designed For Remote Flasher Mounting.

of 3 No of Lamps to Case Material:
Terminals: Flashed

Operation Pilot Circuit: LED Compatible:
Range:

Terminal Markings: Double Flash Rate
Lamp Outage:

Product UPC & Packaging Information

UPC Code	Inner UPC Code	Master UPC Code
014271 04184 6	10	20
Standard Pack Qty	Inner Case Pack Qty	Master Case Pack Qty
<u>1</u>	<u> </u>	<u> </u>
Length Inches	Length Inches	Length Inches
<u> </u>	<u> </u>	<u> </u>
Width Inches	Width Inches	Width Inches
<u> </u>	<u> </u>	<u> </u>
Height Inches	Height Inches	Height Inches
<u> </u>	<u> </u>	<u> </u>
Weight Lbs.	Weight Lbs.	Weight Lbs.
<u>0.058</u>	<u> </u>	<u> </u>

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New Product Announcement

Date: 1/30/2009

Part Number: EF22

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF22 Electronic Heavy Duty Flasher
Off-Road Equipment, Construction, Mining Forestry, Commercial Vehicles, Buses, & Farm Equipment.
Complies with SAE J590b, J945 and J1690
Class A

Product Specification

Description: EF22 Electronic Flasher, 24V, 12A, Two Terminal, Heavy Duty

of Terminals: 2 No of Lamps Flashed: 1 to 10 Case Material: Plastic

Operation Range: 22-30V Pilot Circuit: No LED Compatible: No

Terminal Markings: X=Battery, L=Load Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03920	1	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
<u>1</u>					
Length Inches		Length Inches		Length Inches	
<u>1.5</u>					
Width Inches		Width Inches		Width Inches	
<u>1.5</u>					
Height Inches		Height Inches		Height Inches	
<u>2.75</u>					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
<u>0.08</u>					

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[Back to Index](#)



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New Product Announcement

Date: 02/02/2009

Part Number: EF30WW

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF30WW Electronic Flasher
Wig Wag Pattern
Cars, Vans, Pickups Equipped for Towing Police, Fire Ambulances & Emergency Equipment.
Complies with SAE J1054
Class A

Product Specification

Description: EF30WW, Wig Wag, Electronic Flasher, 12V, 15A, Three Terminal

of Terminals: 3 No of Lamps Flashed: 1 to 6 Case Material: Plastic

Operation Range: 11-15V Pilot Circuit: No LED Compatible: No

Terminal Markings: X = Battery, L = Load, L = Load2 Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03923	2	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
1.5"					
Width Inches		Width Inches		Width Inches	
1.5"					
Height Inches		Height Inches		Height Inches	
2.25					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.08					

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[Back to Index](#)



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New Product Announcement

Date: 1/21/2009

Part Number: EF30WWK

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF30WW Electronic Flasher Kit

Includes EF30WW Flasher, BR1 Mounting Bracket and EF3C Wiring Harness.

Wig Wag Pattern

Cars, Vans, Pickups Equipped for Towing Police, Fire Ambulances & Emergency Equipment.

Complies with SAE J1054 ,

Class A

Product Specification

Description: EF30WWK, Wig Wag, Electronic Flasher Kit, 12V, 15A, Three Terminal

of Terminals: 3 No of Lamps Flashed: 1 to 6 Case Material: Plastic

Operation Range: 11-15V Pilot Circuit: No LED Compatible: No

Terminal Markings: X = Battery, L = Load, L = Load2 Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code	Inner UPC Code	Master UPC Code
014271 03889 8	10	20
Standard Pack Qty	Inner Case Pack Qty	Master Case Pack Qty
1		
Length Inches	Length Inches	Length Inches
3		
Width Inches	Width Inches	Width Inches
3		
Height Inches	Height Inches	Height Inches
1.8		
Weight Lbs.	Weight Lbs.	Weight Lbs.
0.212		

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[Back to Index](#)



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New Product Announcement

Date: 1/21/2009

Part Number: EF32LF

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF32LF Loud Flasher
Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.
Complies with SAE J590b, J945 and J1690
Class A

Product Specification

Description: EF32LF, Electronic Loud Flasher, 12V, 25A, Two Terminal, Heavy Duty

# of Terminals:	<u>2</u>	No of Lamps Flashed	<u>1</u> to <u>12</u>	Case Material:	<u>Plastic</u>
Operation Range:	<u>11-15V</u>	Pilot Circuit:	<u>No</u>	LED Compatible:	<u>No</u>
Terminal Markings:	<u>X=Battery, L=Load</u>			Double Flash Rate Lamp Outage:	<u>No</u>

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03937	9	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
<u>1</u>					
Length Inches		Length Inches		Length Inches	
<u>1.5</u>					
Width Inches		Width Inches		Width Inches	
<u>1.5</u>					
Height Inches		Height Inches		Height Inches	
<u>2.25</u>					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
<u>0.074</u>					

Contact customer service for any additional information.

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www.ceclighting.com

New Product Announcement

Date: 1/30/2009

Part Number: EF32LFK

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF32LF Loud Flasher Kit.

Includes: EF32LF Flasher, EF2C Wiring Harness and BR1 Mounting Bracket.

Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.

Complies with SAE J590b, J945 and J1690

Class A

Product Specification

Description: EF32LFK, Electronic Loud Flasher, 12V, 25A, Two Terminal, Heavy Duty

of Terminals: 2 No of Lamps Flashed: 1 to 12 Case Material: Plastic

Operation Range: 11-15V Pilot Circuit: No LED Compatible: No

Terminal Markings: X=Battery, L=Load Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code	Inner UPC Code	Master UPC Code
014271 03938 6	10	20
Standard Pack Qty	Inner Case Pack Qty	Master Case Pack Qty
1		
Length Inches	Length Inches	Length Inches
3		
Width Inches	Width Inches	Width Inches
3		
Height Inches	Height Inches	Height Inches
1.8		
Weight Lbs.	Weight Lbs.	Weight Lbs.
0.196		

Contact customer service for any additional information.

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New Product Announcement

Date: 1/30/2009

Part Number: EF32SS

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF32SS, LED Solid State Heavy Duty Flasher
Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.
Complies with SAE J590b, J945 and J1690
Class A
Amps 25mA - 25A

Product Specification

Description: EF32SS, Solid State LED Flasher, 12V, 25A, Two Terminal, Heavy Duty

# of Terminals:	<u>2</u>	No of Lamps Flashed:	<u>1</u> to <u>12</u>	Case Material:	<u>Plastic</u>
Operation Range:	<u>11-15V</u>	Pilot Circuit:	<u>No</u>	LED Compatible:	<u>Yes</u>
Terminal Markings:	<u>X=Battery, L=Load</u>			Double Flash Rate Lamp Outage:	<u>No</u>

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03939	3	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
<u>1</u>					
Length Inches		Length Inches		Length Inches	
<u>1.5</u>					
Width Inches		Width Inches		Width Inches	
<u>1.5</u>					
Height Inches		Height Inches		Height Inches	
<u>2.25</u>					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
<u>0.08</u>					

Contact customer service for any additional information.

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[Back to Index](#)



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www.ceclighting.com

New Product Announcement

Date: 1/30/2009

Part Number: EF33K

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF33K Electronic Heavy Duty Flasher Kit

Includes: EF33 Flasher, EF3C Wiring Harness and BR1 Bracket

Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.

Complies with SAE J590, J945 and J1690

Class A

Product Specification

Description: EF33K, Electronic Flasher Kit, 12V, 25A, Three Terminal, Heavy Duty

of Terminals: 3 No of Lamps Flashed: 1 to 12 Case Material: Plastic

Operation Range: 11-15V Pilot Circuit: Yes LED Compatible: No

Terminal Markings: X=Battery, L=Load, P=Pilot Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03979	9	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
3					
Width Inches		Width Inches		Width Inches	
3					
Height Inches		Height Inches		Height Inches	
1.8					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.242					

Contact customer service for any additional information.

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New Product Announcement

Date: 1/30/2009

Part Number: EF40K

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF40K Electronic Heavy Duty Flasher Kit.

Kit Includes: EF40 Flasher, EF2C Wiring Harness and BR1 Bracket

Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.

Complies with SAE J590b, J945 and J1690

Class A

Product Specification

Description: EF40K, Electronic Flasher Kit, 12V, 35A, Two Terminal, Heavy Duty

# of Terminals:	<u>2</u>	No of Lamps Flashed:	<u>1</u> to <u>16</u>	Case Material:	<u>Plastic</u>
Operation Range:	<u>11-15V</u>	Pilot Circuit:	<u>No</u>	LED Compatible:	<u>No</u>
Terminal Markings:	<u>X=Battery, L=Load</u>			Double Flash Rate Lamp Outage:	<u>No</u>

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03980	5	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
<u>1</u>					
Length Inches		Length Inches		Length Inches	
<u>3</u>					
Width Inches		Width Inches		Width Inches	
<u>3</u>					
Height Inches		Height Inches		Height Inches	
<u>1.8</u>					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
<u>0.152</u>					

Contact customer service for any additional information.

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[Back to Index](#)



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(847) 821-1199; (800) 572-4168; (847) 821-1133 (Fax)

www.ceclighting.com

New Product Announcement

Date: 1/30/2009

Part Number: EF47

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



EF47 Electronic Heavy Duty Flasher
Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles.
Complies with SAE J590b, J945 and J1690
Class A

Product Specification

Description: EF47, Electronic Flasher, 12V, 35A, Two Terminal, Heavy Duty

# of Terminals:	<u>2</u>	No of Lamps Flashed	<u>1</u> to <u>16</u>	Case Material:	<u>Plastic</u>
Operation Range:	<u>11-15V</u>	Pilot Circuit:	<u>No</u>	LED Compatible:	<u>No</u>
Terminal Markings:	<u>X=Battery, L=Load</u>			Double Flash Rate Lamp Outage:	<u>No</u>

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03981	2	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
1.50"					
Width Inches		Width Inches		Width Inches	
1.50"					
Height Inches		Height Inches		Height Inches	
2.75"					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.102					

Contact customer service for any additional information.

Good Selling

Ken Ballowe

Ken Ballowe

Vice President of Sales & Marketing

[Back to Index](#)



599 Bond St., Lincolnshire, IL 60069-4226

ISO9001:2000

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www.ceclighting.com

New Product Announcement

Date: 1/30/2009

Part Number: EF552

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



Long Life Electronic Version of The TF552
Variable Load for Older Application Passenger Cars, Light Trucks, Motorcycles, Farm and Industrial Vehicles. Refer to application guide for complete listing by vehicle.
Complies with SAE J590b and J945 and J1690

Product Specification

Description: EF552, Electronic Long Life Flasher, 12V, 12A, Heavy Duty

# of Terminals:	<u>2</u>	No of Lamps Flashed:	<u>1</u> to <u>6</u>	Case Material:	<u>Plastic</u>
Operation Range:	<u>11 to 15V</u>	Pilot Circuit:	<u>No</u>	LED Compatible:	<u>No</u>
Terminal Markings:	<u>X = Battery, L = Load</u>			Double Flash Rate Lamp Outage:	<u>No</u>

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03940	9	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
1.50					
Width Inches		Width Inches		Width Inches	
1.50					
Height Inches		Height Inches		Height Inches	
1.75					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.048					

Contact customer service for any additional information.

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[Back to Index](#)



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www.ceclighting.com

New Product Announcement

Date: 1/30/2009

Part Number: TF535

Country of Origin: Taiwan

Ten Code: 8536410005 Six Code: 853641



TF535 Thermal Flasher, Bi-Polar

Variable Load for Older Application Passenger Cars, Light Trucks, Motorcycles, Farm and Industrial Vehicles. Refer to application guide for complete listing by vehicle.

Complies with SAE J590b and J945.

Product Specification

Description: TF535 Flasher, 6V, 12A, 3 Terminal Thermal Bi-Polar

of Terminals: 3 No of Lamps Flashed: 1 to 6 Case Material: Aluminum

Operation Range: 5 to 7V Pilot Circuit: Yes LED Compatible: No

Terminal Markings: X = Battery, L = Load, P = Pilot Double Flash Rate Lamp Outage: No

Product UPC & Packaging Information

UPC Code		Inner UPC Code		Master UPC Code	
014271 03988	1	10		20	
Standard	Pack Qty	Inner Case	Pack Qty	Master Case	Pack Qty
1					
Length Inches		Length Inches		Length Inches	
1.50					
Width Inches		Width Inches		Width Inches	
1.50					
Height Inches		Height Inches		Height Inches	
2.75					
Weight Lbs.		Weight Lbs.		Weight Lbs.	
0.048					

Contact customer service for any additional information.

Good Selling

Ken Ballowe

Ken Ballowe

Vice President of Sales & Marketing

[Back to Index](#)

CEC Electronic Flasher Selling Guide



Electronic Flashers

12 Volt OEM Design Flashers: Various Domestic & Import Brand Passenger Cars & Light Trucks Since 1985. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690. Refer to application guide for complete listing by vehicle.

2 Turn Signal - 6 Hazard Lamps			2 Turn Signal - 6 Hazard Lamps			2 Turn Signal - 4 Hazard Lamps			3 Turn Signal - 6 Hazard Lamps		
4 Terminal	Type	Lamp Outage Feature	5 Terminal	Type	Lamp Outage Feature	3 Terminal	Type	Lamp Outage Feature	2 Terminal	Type	Lamp Outage Feature
EF26	Electronic	Yes	EF27	Electronic	Yes	EF28	Electronic	Yes	EF29	Electronic	Yes



Electronic Flashers

12 Volt OEM Design Flashers: Various Domestic & Import Brand Passenger Cars & Light Trucks Since 1985. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690. Refer to application guide for complete listing by vehicle.

2 Turn Signal - 6 Hazard Lamps			2 Turn Signal - 6 Hazard Lamps			3 Turn Signal - 6 Hazard Lamps			2 Turn Signal - 6 Hazard Lamps		
3 Terminal	Type	Lamp Outage Feature	3 Terminal	Type	Lamp Outage Feature	3 Terminal	Type	Lamp Outage Feature	3 Terminal	Type	Lamp Outage Feature
EF34	Electronic	Yes	EF35	Electronic	Yes	EF36	Electronic	Yes	EF37	Electronic	Yes



Electronic Flashers

12 Volt OEM Design Flashers: Various Domestic & Import Brand Passenger Cars & Light Trucks Since 1985. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690. Refer to application guide for complete listing by vehicle.

2 Turn Signal - 6 Hazard Lamps		
3 Terminal	Type	Lamp Outage Feature
EF39	Electronic	Yes

Harness & Brackets are designed for remote flasher mounting. Where positioning for a audible flasher is required or the replacement unit is too large for the older fuse panels, or ease of future replacement is required.



BR1



EF2C



EF3C





CEC 2 Pin Heavy Duty Flasher Selling Guide



Fitment Information

2 Pin 12 Volt HD Flashers

Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

Heavy Duty Service

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF32	25	1 to 12



Heavy Duty Continuous Service

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF32H	25	1 to 12



Heavy Duty Solid State Reliability for LED & Incandescent

2 Terminal	MV/AMP Capacity Total	No. Of Lamps Flashed
EF32SS	.80 to 25	1 to 12



Heavy Duty Service for Incandescent & LED Lamps

2 Terminal w/Lead Wire	MV/AMP Capacity Total	No. Of Lamps Flashed
EF32RL	0.10 to 25	1 to 12



Heavy Duty Service Loud Flasher

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF32LF	25	1 to 12



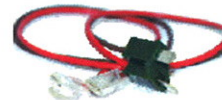
Heavy Duty Service Loud Flasher Kit comes with Bracket & Wire Harness Extension

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF32LFK	25	1 to 12



Wire Harness & Bracket Supplied with all Kits or available as separate purchase items.

EF2C



BR1



Harness & Brackets are designed for remote flasher mounting. Where positioning for an audible flasher is required or the replacement unit is too large for the older fuse panels, or ease of future replacement is required.

Heavy Duty Double Trailers or High Amp / Lamp Capacity Applications

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF40	35	1 to 16



Heavy Duty Triple Trailers or High Amp / Lamp Capacity Applications

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF42	45	1 to 20



Heavy Duty Double Trailer Kit with Bracket & Wire Harness Extension.

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF40K	35	1 to 16



Heavy Duty 35 AMP / 16 Lamp Capacity Flasher

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF47	35	1 to 16





CEC 3 Pin Heavy Duty Flasher Selling Guide



Fitment Information

3 Pin 12 Volt HD Flashers

Over The Road Class Eight Trucks, Inner City Tractor Trailers, Tractors Hauling Double (2) or (3) Triple Trailers, Refuse Haulers, Municipalities, Commercial Local & Nationwide Delivery Services, Airport & Hotel Shuttles. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

Heavy Duty Service

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF33	25	1 to 12



Heavy Duty Continuous Service

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF33H	25	1 to 12



Heavy Duty Service for Incandescent & LED Lamps

3 Terminal w/Lead Wire	MV/AMP Capacity Total	No. Of Lamps Flashed
EF33RL	0.10 to 25	1 to 12



Heavy Duty Service Flasher Kit comes with Bracket & Wire Harness Extension

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF33K	25	1 to 12



Heavy Duty Double Trailers or High Amp / Lamp Capacity Applications

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF41	35	1 to 16



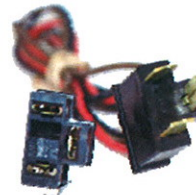
Heavy Duty Triple Trailers or High Amp / Lamp Capacity Applications

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF43	45	1 to 20



Wire Harness & Bracket Supplied with all Kits or available as separate purchase items.

EF3C



BR1



Harness & Brackets are designed for remote flasher mounting. Where positioning for a audible flasher is required or the replacement unit is to large for the older fuse panels, or ease of future replacement is required.

Heavy Duty Service 3 Pin Design No Pilot Light Circuit

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF31	25	1 to 12



Heavy Duty Service 3 Pin Design No Pilot Light Circuit LED & Incandescent

3 Terminal	AMP Capacity Total	No. Of Lamps Flashed
EF31L	0.10 to 20	1 to 6



Heavy Duty Service for DC Battery Powered Vehicles

3 Terminal Sealed Bottom	AMP Capacity Total	No. Of Lamps Flashed
EF33W	25	1 to 12





CEC Alternating and 24 Volt Flasher Selling Guide



Fitment Information

12 Volt Alternating Flashers

Cars, Vans, Pickups Equipped for Towing Police, Fire Ambulances & Emergency Equipment. Flashers comply with one or all of the following SAE J spec's J1054

Heavy Duty Service

3 Terminal	AMP Capacity Per Side	No. Of Lamps Flashed
EF30A	15	1 to 7



Heavy Duty Continuous Service

3 Terminal	AMP Capacity Per Side	No. Of Lamps Flashed
EF3012A	25	1 to 12



Combination Incandescent & LED Lamps.

3 Terminal w/Lead Wire	MV/AMP Capacity Per Side	No. Of Lamps Flashed
EF30AL	.20 to 15	1 to 7



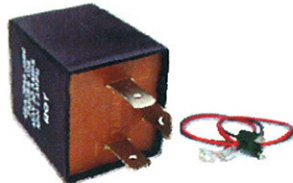
Wig Wag Pattern

3 Terminal	AMP Capacity Per Side	No. Of Lamps Flashed
EF30WW	15	1 to 6



Wig Wag Pattern Flasher with Bracket & Wire Harness Extension

3 Terminal	AMP Capacity Per Side	No. Of Lamps Flashed
EF30WWK	15	1 to 6



Wire Harness & Bracket Supplied with all Kits or available as separate purchase items.

EF2C



EF3C



BR1



24 Volt HD Flashers

Off-Road Equipment, Construction, Mining Forestry, Commercial Vehicles, Buses, & Farm Equipment. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

Heavy Duty Service

2 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF22	12	1 to 10



Heavy Duty Service

3 Terminal	Total AMP Capacity	No. Of Lamps Flashed
EF23	12	1 to 10



Harness & Brackets are designed for remote flasher mounting. Where positioning for a audible flasher is required or the replacement unit is to large for the older fuse panels, or ease of future replacement is required.

CEC Lighting Control Modules



Lighting Control Modules

Lighting Control Modules: (General Motors Applications) • Brake-Light Control • Trailing Capability • LED Support • DRL for Popular GM Applications. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

General Motors 2 Turn 4 Hazard + Accessories			General Motors 2 Turn 4 Hazard + Accessories			General Motors 2 Turn 4 Hazard + Accessories			General Motors 2 Turn 4 Hazard + Accessories		
10 Terminal	Type	No. Of Lamps Flashed	10 Terminal	Type	No. Of Lamps Flashed	10 Terminal	Type	No. Of Lamps Flashed	12 Terminal	Type	No. Of Lamps Flashed
ELM442R4	Electronic	6	ELM455R4	Electronic	6	ELM458R4	Electronic	6	ELM465R4	Electronic	6



BUICK

2000-2005 LeSabre

BUICK

2001-2007 Rendezvous

GMC

2002-2007 Envoy
2003-2006 Sierra P/U
2003-2005 Yukon

CADILLAC

2003-2008 CTS

CADILLAC

2000-2005 DeVille

CADILLAC

2003-2005 Escalade

CHEVROLET

2003-2005 Avalanche
2003-2006 Silverado P/U
2003-2005 Tahoe
2003-2005 Suburban
2002-2007 Trailblazer

OLDSMOBILE

2002-2003 Bravada

PONTIAC

2001-2007 Aztek

Lighting Control Modules

Lighting Control Modules: (General Motors Applications) • Brake-Light Control • Trailing Capability • LED Support • DRL for Popular GM Applications. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

General Motors 2 Turn 4 Hazard + Accessories			General Motors 2 Turn 4 Hazard + Accessories			General Motors 2 Turn 4 Hazard + Accessories		
13 Terminal	Type	No. Of Lamps Flashed	10 Terminal	Type	No. Of Lamps Flashed	113 Terminal	Type	No. Of Lamps Flashed
ELM476R6	Electronic	6	ELM487R4	Electronic	6	ELM502R6	Electronic	6



CHEVROLET

2003-2007 Express

General Motors LED Applications

GM # 10383322

General Motors LED Applications

GM # 25760222

GMC

2003-2007 Savana



Lighting Control Modules

Lighting Control Modules: (For Chrysler, Ford, Toyota) Check Application data & new item release sheet for complete details
Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690

Chrysler Product

5 Terminal	Type	No. Of Lamps Flashed
ELM470	Electronic	6



Chrysler

2004-1999 300M
2000-1995 Cirrus
2004-1996 Concorde
2004-1996 Intrepid
2001-1996 LHS
2002-2000 Neon
1996 New Yorker
2002-2001 Prowler
2005-2000 PT Cruiser
2006-1998 Sebring

OEM Mopar
OEM Part #4760060
POKL Registration 5,207,031

Chrysler Product

9 Terminal	Type	No. Of Lamps Flashed
ELM468	Electronic	6



Chrysler

1996-2000 Caravan/GC
1996-2002 T&C
1999-2004 Jeep GC
2000-2003 Voy

Plymouth

2000-1996 Voyager

Mopar
#4686094
4,634,353

Ford Product

12 Terminal	Type	No. Of Lamps Flashed
ELM463	Electronic	6



Ford

2001-2007 Escape
1998-1999 Tracer
1998-2002 Escort
2005-2007 Mariner

Mazda

2006-2001 Tribute

Mercury

2006-2005 Mariner

Motorcraft
#YL8Z13350BA
1,808,160

Toyota Product

8 Terminal	Type	No. Of Lamps Flashed
ELM449	Electronic	6



Toyota

2008-2005 Tacoma
2006-2002 Camry
2006-2003 Tundra
2008-2001 Highlander
2008-2003 4 Runner
2008-2003 Corolla
2008-2003 Matrix
2008-2004 Sequoia
2008-2004 Sienna
2008-2005 Avalon
2005-2000 ECHO
2008-2007 FJ Cruiser

Toyota
#81980-50030
10,923,588



CEC Thermal Flasher Selling Guide



Thermal Flashers

6 & 12 Volt Flashers, Variable Load for Older Application Passenger Cars, Light Trucks, Motorcycles, Farm and Industrial Vehicles. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690. Refer to application guide for complete listing by vehicle.

6 Volt Vintage Vehicles			12 Volt Older & Specialty Vehicles			12 Volt Older & Specialty Vehicles			Long Life Electronic TF552/536		
3 Terminal Bi-Polar Design	Type	No. Of Lamps Flashed	3 Terminal W/Pilot Circuit	Type	No. Of Lamps Flashed	2 Terminal	Type	No. Of Lamps Flashed	2 Terminal	Type	No. Of Lamps Flashed
TF535	Thermal	1 to 6	TF550	Thermal	1 to 6	TF552/536	Thermal	1 to 6	EF552	Thermal	1 to 6



Thermal Flashers

6 & 12 Volt Flashers, Variable Load for Older Application Passenger Cars, Light Trucks, Motorcycles, Farm and Industrial Vehicles. Flashers comply with one or all of the following SAE J spec's J945, J590b, J1690. Refer to application guide for complete listing by vehicle.

12 Volt HD Design Older & Specialty Vehicles			12 Volt HD Design Older & Specialty Vehicles			12 Volt Loud Flasher Older & Specialty Vehicles		
3 Terminal W/Pilot Circuit	Type	No. Of Lamps Flashed	2 Terminal	Type	No. Of Lamps Flashed	2 Terminal	Type	No. Of Lamps Flashed
TF569	Thermal	1 to 6	TF575	Thermal	1 to 8	TF577	Thermal	1 to 6



Harness & Brackets are designed for remote flasher mounting. Where positioning for a audible flasher is required or the replacement unit is to large for the older fuse panels, or ease of future replacement is required.

BR1

EF2C

EF3C





ISO9001:2000

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www.ceclighting.com

January 1, 2009

Subject: CEC Industries LTD Turn Signal Flashers Compliance

All CEC Industries LTD. Turn Signal Flasher comply with these Guidelines:

The Federal Register dated December 30, 2005 Part II Department of Transportation
(National Highway Transportation Safety Administration) 49 CFR Part 571:
Page 77554 Vol. 70, No. 250 / Friday, December 30, 2005 Appendix A: FMVSS 108
Rewrite Cross Reference states:

S5.1.1.19 Table XXI Turn Signal Flasher –Starting Time test
S5.1.1.19 Table XXI Turn Signal Flasher –Flash rate and percent “on” time test
S5.1.1.20 Table XXI Turn Signal Flasher –Voltage Drop Test
S5.1.1.20 Table XXI Vehicle hazard warning signal flasher-Voltage drop test

The above tests are on page 77514, through 77518 49 CFR Part 571.

In addition to this the reference should also be made to SAE International:

Ground Vehicle Lighting Standards Manual 2006 Edition #HS-34
Section 3.4 Switches & Flashers SAE J1690 AUG 1996 Flashers page 395
Pages 395 through 400 detail the updated 1966-2008 test procedures for flashers that
have to meet the above FMVSS 108 statements.

Related Publications:

FMVSS-108 (National Highway Transportation Safety Administration) 49 CFR Part 571:
ISO 4082 –Road Vehicles _Motor vehicle flasher units
JIS D 5707 Flasher Units for Automobiles

Product provided by CEC Industries LTD for use on specific platforms per our application
data are certified in compliance with FMVSS & SAE Guidelines. TF 535 6 volt flashers are
not covered by this statement.

Form # 1012 01-2009

[Back to Index](#)

Flasher UPC Codes

CEC Part Number							
	ITEM UPC CODE				BOX NUMBER		
Boxed Electronic Flashers & Light Modules							
1-per box 10 per pack 200 per Case							
EF22 24 Volt	0	14271	03920	1	14		
EF23 24 Volt	0	14271	02609	6	14		
EF26	0	14271	03175	5	14		
EF27	0	14271	03177	9	14		
EF28	0	14271	03178	6	14		
EF29	0	14271	03179	3	14		
EF30A Alternating	0	14271	01122	1	14		
EF3012A 25A Alternating	0	14271	03448	0	10F1		
EF30AL	0	14271	03747	4	14		
EF30WW	0	14271	03923	2	14		
EF30WWK	0	14271	03989	8	49		
EF31 Postal Vehicle	0	14271	01123	8	14		
EF31L	0	14271	03544	9	14		
EF32	0	14271	01124	5	14		
EF32H	0	14271	03180	9	14		
EF32LF	0	14271	03937	9	14		
EF32LFK	0	14271	03938	6	49		
EF32RL	0	14271	03585	2	14		
EF32SS	0	14271	03939	3	10F1		
EF33	0	14271	01125	2	14		
EF33H	0	14271	03181	6	14		
EF33RL	0	14271	03592	0	14		
EF33K	0	14271	03979	9	49		
EF33W	0	14271	03471	8	14		
EF34	0	14271	01126	9	14		
EF35	0	14271	01127	6	14		
EF36	0	14271	01128	3	14		
EF37	0	14271	01129	0	14		
EF39	0	14271	01130	6	14		
EF40	0	14271	02728	4	10F1		
EF40K	0	14271	03980	5	49		
EF41	0	14271	02729	1	10F1		
EF42	0	14271	02730	7	10F1		
EF43	0	14271	02731	4	10F1		
EF47	0	14271	03981	2	10F1		
EF552	0	14271	03940	9	14		
ELM442R4	0	14271	04343	7	57		
ELM455R4	0	14271	04344	4	57		
ELM458R4	0	14271	04345	1	57		
ELMR4	0	14271	04346	8	57		
ELM476R6	0	14271	04347	5	57		
ELM487R4	0	14271	04348	2	57		
ELM502R6	0	14271	04349	9	57		
ELM463	0	14271	04363	5	57		
ELM468	0	14271	04364	2	57		
ELM470	0	14271	04365	9	57		
ELM449	0	14271	04366	6	57		

Flasher UPC Codes

CEC Part Number							
Boxed Thermal Flasher							
1-per box. 10 per pack. 200 per Case							
TF552/536	0	14271	02613	3	16		
TF510	0	14271	02625	6	10F2		
TF550	0	14271	02615	7	10F2		
TF569	0	14271	02612	6	10F2		
TF575	0	14271	02611	9	16		
TF577	0	14271	02610	2	10F2		
TF535	0	14271	03919	5	10F2		
CEC Part Number							
Wire Harness & Extensions							
1-per bag. 10 per pack. 200 per Case							
EF2C	0	14271	04185	3	S-3460		
EF3C	0	14271	04184	6	S-3460		
AR301C	0	14271	04183	9	S-3460		
AR401C	0	14271	04182	2	S-3460		
AR502C	0	14271	04181	5	S-3460		
CEC Part Number							
Boxed Headlight Changeover Relays							
1- per box 10 per pack							
AR501	0	14271	02429	0	14		
AR502	0	14271	02430	6	14		
AR502R	0	14271	02431	3	14		
AR503	0	14271	03052	9	14		



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