

Fast and Precise Controlling

Safety for Man and Machine



High-Speed-PLC

Safety Switching Devices

 **ZANDER
AACHEN**

 *it works*

Machinery Safety

Safety Relays



32915-06HH

Emergency Stop Relays SR2C, SR3C, SRLC

2 or 3 force guided safety contacts
Safety category 3 or 4
Stop category 0
Cross-short monitoring and/or
shorting to ground monitoring
Just 22.5 mm housing
BG, cULus, SR3C also with GL-approval 32915-06HH



Extension Contact Blocks SREC, SRTC

3 force guided safety contacts or
3 time-delayed safety contacts
Extension contact block to basic
devices SR2C, SRLC, SR3C
Safety category 3
Stop category 0 or 1
Shorting to ground monitoring
BG, cULus approval



Combined Emergency Stop Relay SR4C

4 force guided safety contacts, 1-3 delayed
Stop category 4
Stop category 0 or 1 to delayed contacts
Cross-short monitoring and/or
shorting to ground monitoring
BG, cULus approval



Safety Two Hand Control Unit S2HC

2 force guided safety contacts
Safety category 4 / IIC according to EN574
Stop category 0
Cross-short monitoring and/or
shorting to ground monitoring.
BG, cULus approval



ZANDER offers a safety technology according to the newest international standards. We deliver a complete range of safety products - from safety emergency stop relays, safety two hand control units up to safety switches. Cost optimized for your applications.

Most of our products are approved and certified by independent institutes - proved safety for our customers.



TALOS® is ideal to prevent dangerous states at machines and installations. Already the basic module is a complete security system with two 2-channel force guided inputs and 3 force guided safety output contacts. Later on, an expansion is possible at anytime.

TALOS® grows with your installation: Insert a new input or output module - the installation is running! **The system is self configuring,** and the highest safety category 4/SIL3 is upheld all the time.

Safety Switches

Miniature Safety Switches ELF, CADET

Safety switches with a separate actuator
Miniature size - just 75x25x29 mm
8 possible actuator entry points
Contacts: 1N/C, 2N/C or 2N/C, 1N/O



Safety Rope Operated Emergency Stop Switch LIFELINE

Combined rope and push button actuated
Emergency stop unit
Switch lockout on rope pulled and rope slack
Rope-status indicator on switch lid
Switches up to 125m span
3N/C, 1N/O contacts



Safety Interlock Switch TITAN with Guard Locking

Compact safety interlock switch
high locking force up to 2000N
Stainless steel actuator guide aids alignment
Rotatable head: 4 possible key entry slots
3N/C, 2N/O or 4N/C, 1N/O



Magnetically Coded Safety Interlock Switch SIPHA

Coded sensor - highly resistant to defeat
Tolerant to misaligned guards
Full self monitoring
2 safety contacts, 1 auxiliary contact



TALOS® Plug&Play Safety System



Out/Inputs can be extended as desired
Self-configuration
Safety Category 4 according to EN954-1, SIL3 according to EN61508
Observation of emergency stop, guard doors, safety light grids
Non delayed and delayed safety contacts.
Monitored manual start or automatic start
Combination/ formation of groups without programming
All modules pluggable vertically
Perfect diagnostic by integrated serial interface and fault-indication outputs

High-Speed PLC with no cycle time



Micro-PLC SPEEDY ZX8

High-speed, no cycle time
9 Inputs / 8 Outputs
Zero voltage safe
Modular extendable
Programming according to IEC 61131-3



Extension modules for SPEEDY ZX8

9 Inputs / 8 Outputs
Analogue Inputs / Outputs
Profibus-DP Connection



Micro-PLC EX16

High-speed, no cycle time
9 Inputs / 8 Outputs
Zero voltage safe
Programming according to IEC 61131-3



Micro-PLC SPEEDY ZX4T / ZX4TE

High-speed, no cycle time
4 Inputs / 4 Outputs or
11 Inputs / 4 Outputs
Zero voltage safe
Extremely compact
Programming according to IEC 61131-3

SPEEDY is unique. **SPEEDY** is the micro-PLC for maximum performance with minimum dimensions. The heart of the control is not a micro-controller, rather a FPGA-chip. This means that **SPEEDY** runs your program internally in absolute real-time - with no cycle time.

Cam Controller



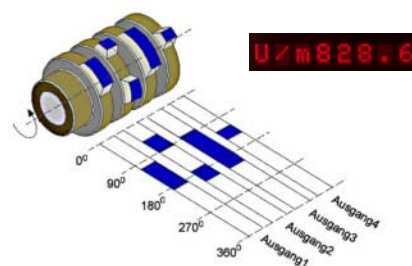
Electronic Programmable Cam Controller EPR16 / EPR48

Operator terminal and controller in one unit
No programming unit required
Shaft encoder up to 1000 r. p. m.
Automatic delay-time compensation
Realtime operating for highest speed
16 or 48 outputs, 32 programs
Program optimizing during operation



Electronic Programmable Cam Controller EPC16 / EPC48

Operator terminal and controller in one unit
Integrated LCD display with language choice
No programming unit required
Shaft encoder up to 1000 r. p. m.
Automatic delay-time compensation
Realtime operation for highest speed
16 or 48 Outputs
8 or 32 programs
Program optimizing during operation



Cam controllers are employed everywhere, where actors must be controlled exactly in firm assignment to the machine positions, for instance at packaging machines.

ZANDER cam controllers provide many additional options like speed depending dead time compensation of the actors or program adjustment during machine running.

Fieldbus Components



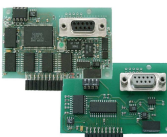
Universal Industrial Fieldbus Module ESB

Basis-module for several fieldbus systems
Connectable to RS232, RS485, CANopen, Profibus-DP
8 inputs, 8 outputs

RS232
RS485

PROFI

CANopen



Industrial Plug-In Fieldbus Cards

Connectable to RS232, RS485, CANopen, Profibus-DP
Transfers fieldbus-signals into 8 Bit digital I/O
For industrial fieldbus module ESB and Micro-PLC SPEEDY

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it works

Timer/Control Relays



Multifunction Timer DMC, DVC

16 functions, 16 time ranges
Multi voltage
1 or 2 contacts
1 or 2 independent times
Connection for remote potentiometer
22.5 mm housing



Multifunction-Timer DSCM

Plug-in timer for 11-pin relay socket
4 functions, 4 time ranges
Multi voltage
1 or 2 contacts
Size 35x35x77 mm



Programmable Multifunction Digital Timer/Counter ENS20

Time ranges from 0,01sec to 99,9h
Many programmable timer and counter functions
2 programmable outputs
Front protection IP65
High efficient LED-display
Size 45x45x108 mm



Control Relay

Level control relay DSFC
Electronic amplifier DSTC
Thermistor motor protection relay DHC
Star-Delta-Timer DDC



Fault Indication System ENQ4

Modular extendable
4 fault-detection-inputs, 1 output-relay
Indication memory
Fault indication unit with label area
Front protection IP54
Size 45x45x108 mm



ZANDER-Safety components prove themselves everywhere: at machine tools, packaging machines, in the food processing industry, automotive engineering, in the wood processing...



For example production machines for PET-bottles, paper processing, food packaging...

If a fast controlling is necessary: Use **ZANDER** High-Speed controllers with no cycle time.



Do you have any special questions?
No problem, together we will find a solution.
Use our 50 years experience.

**QUALITY
MANAGEMENT
Certificate**

Voluntary participation in regular monitoring according to ISO 9001:2000



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