

S SCHmER5RL
Safe solutions for your industry


## (8) 5CHmERSRL <br> Safe solutions for your industry



## AZ 17

Solenoid interlock

- Thermoplastic enclosure
- Small body
- 8 actuating planes
- $30 \times 60 \times 30 \mathrm{~mm}$
- Multiple coding
- Long life
- Double-insulated
- High level of contact reliability with low voltages and currents
- Not sensitive to dirty conditions by virtue of patented roller system
- Cable gland M16

Ambient conditions
Protection class: IP67 to IEC/EN 60529
Ordering Selection
AZ 17-(1)Z(2)K-(3)-(4)-(5)

| (1) $\begin{aligned} & 11 \\ & 02\end{aligned}$ | 1 Normally open contact (NO)/1 Opener (NC) 2 Opener (NC) |
| :---: | :---: |
| $\text { (2) } \begin{aligned} & \text { without } \\ & \mathrm{R} \end{aligned}$ | Latching force 5 N Latching force 30 N |
|  | Cable entry M16 <br> Front cable entry <br> Rear cable entry <br> Connector M12, 4 Pole |
| (4) 1637 | Gold plated contacts |
| $\text { (5) } \begin{aligned} & 5 \mathrm{M} \\ & 6 \mathrm{M} \\ & \hline \end{aligned}$ | 5M Cable Length 6M Cable Length |

## System Components

Description Part No.

| Actuators |  |
| :--- | :--- |
| Suitable for sliding doors | $1122893-\mathrm{AZ} \mathrm{17/170-B1}$ |
| Damps vibration on guard device | $1137406-\mathrm{AZ} \mathrm{17/170-B11-2245}$ |
| Suitable for hinged guards (front mounting) | $1122895-\mathrm{AZ}$ 17/170-B5 |
| For very small actuating radii, the direction of actuation can be selected <br> by applicable insertion of the insert | $\mathbf{1 1 3 6 0 6 0 - A Z ~ 1 7 - B 6}$ |
| Suitable for sliding doors | $1139789-\mathrm{AZ}$ 17/170-B11 |
| Suitable for hinged guards (front mounting) |  |

## AZM 161

Solenoid interlock

- Thermoplastic enclosure
- Double-insulated
- Interlock with protection against incorrect locking.
- $130 \times 90 \times 30 \mathrm{~mm}$
- 6 Contacts
- Long life
- Large wiring compartment
- Manual release
- Cable entries 4 M $16 \times 1.5$

Ambient conditions
Environmental temperature: Min. $-25^{\circ} \mathrm{C}$
Max. $+60^{\circ} \mathrm{C}$
Protection class:
P67 to IEC/EN 60529
Operating modes

- Sliding safety guard
- Removable guard
- Hinged safety guard

Ordering Selection
AZM 161 (1)-(2)K(3)-(4)-(5)-(6)(7)


System Components
Description Part No.

| Actuators | 1145117 - AZM 161-B1 |
| :--- | :--- |
|  | $1144416-$ AZM 161-B1E |
|  | $1171859-$ AZM 161-B1ES |
|  | $1175431-$ AZM 161-B1F |
|  | $1171125-$ AZM 161-B1S |
| With ball latch | $1173089-$ AZM 161-B1-2053 |
| With magnetic latch | $1164100-$ AZM 161-B1-1747 |
|  | $1178199-$ AZM 161-B1-2024 |
| With centring guide | $1176642-$ AZM 161-B1-2177 |
|  |  |
| For very small actuating radii |  |

Solenoid Interlock

- Thermoplastic enclosure
- Double-insulated
- Compact design
- $90 \times 84 \times 30 \mathrm{~mm}$
- 1 cable entry N20 x 1.5
- Interlock with protection against incorrect locking
- Long life
- High holding force
- IDC method of termination
- Manual release


## Ordering Selection

## AZM 170 (1)-(2)Z(3)K(4)-(5)-(6)(7)



## Ambient conditions

Environmental temperature: Min. $-25^{\circ} \mathrm{C}$
Max. $+60^{\circ} \mathrm{C}$
Protection class: IP67 to IEC/EN 60529

## Operating Modes

- Sliding safety guard
- Removable guard
- Hinged safety guard


## Ordering Selection

AZM 170ST-(1)Z(2)K(3)-(4)-(5)-024
AZM 170SK-(1)Z(2)K(3)-(4)-(5)-024


## System Components

| Description |
| :--- |
| Actuators |
| Particularly suitable for sliding doors |

Part No.

Damps vibration on guard device
1122893 - AZ 17/170-B1
Suitable for hinged guards (front mounting) 1137406 - AZ 17/170-B1-2245

Suitable for sliding doors $\qquad$ 1122895-AZ 17/170-B5

Suitable for hinged guards (front mounting) 1139788-AZ 17/170-B11

For very small actuating radii 1123391
The direction of actuation can be selected by applicable insertion of the insert
1139789-AZ 17/170-B15

Accessories
Centring guide for AZ 17 and AZM 170 1123391 - AZM 170-B6 1208493 - AZM 170-B

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BNS 33
Safety sensors

- Thermoplastic enclosure
- Concealed mounting possible
- Insensitive to transverse misalignment
- $88 \times 25 \times 13 \mathrm{~mm}$
- Long life
- no mechanical wear
- Insensitive to soiling
- AS-Interface safety at work available


## Ambient conditions

Environmental temperature: Min. $-25^{\circ} \mathrm{C}$
Max. $+70^{\circ} \mathrm{C}$
IP67 to IEC/EN 60529
Protection class:

Ordering Selection
BNS 33(1)Z(2)-(3)-(4)


## Part No.

| System Componenis | Part No. |
| :--- | :--- |
| Description |  |
| Actuators | $\mathbf{1 1 2 2 8 9 3 - A Z ~ 1 7 / 1 7 0 - B 1 ~}$ |
| Particularly suitable for sliding doors | $\mathbf{1 1 3 7 4 0 6 - A Z ~ 1 7 / 1 7 0 - B 1 - 2 2 4 5 ~}$ |
| Damps vibration on guard device | $\mathbf{1 2 0 8 4 9 3 - A Z M ~ 1 7 0 - B ~}$ |
| Accessories |  |
| Centring guide for AZ 17 and AZM 170 |  |

BNS 260
Safety sensors

- Thermoplastic enclosure
- Small body
- Concealed mounting possible
- $26 \times 36 \times 13 \mathrm{~mm}$
- Long life
- No mechanical wear
- Insensitive to soiling
- Insensitive to transverse misalignment

Ambient conditions

| Environmental temperature: | Min. $-25^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Max. $+70^{\circ} \mathrm{C}$ |  |
| Storage/transport temperature: | Min. $-25^{\circ} \mathrm{C}$ |
|  | Max. $+70^{\circ} \mathrm{C}$ |

Protection class:
Max. $+70^{\circ} \mathrm{C}$

System Components
Description

## Part №.

| Actuator and sensor on a mounting level | $\mathbf{1 1 8 4 3 9 5 - \text { BPS 260-1 }}$ |
| :--- | :--- |
| Actuator $90^{\circ}$ attached to the sensor | $\mathbf{1 1 8 4 3 9 6 - \text { BPS 260-2 }}$ |

For BNS 33, BNS 36, enables the interconnection and the connection of BNS BNS 260 (with 2 NC) safety sensors to a common safety monitoring module

To mount the magnetic safety sensor and actuator on ferromagnetic material

Ordering Selection
BNS 260-(1)Z(2)Z(3)-(4)-(5)


## Preventa XCSDM Coded Magnetic Switches

- Actuation face-to-face, side-to-side and face-to-side
- Compact version - 2 contacts
- Standard version - 3 contacts
- Coded magnet technology- switch cannot be totally defeated by a single magnet
- Certified safety solution when used with 2NC compact and 2NC+1NO standard versions need XPSAF safety relays
- Tolerant of up to 6 mm misalignment
- Optional LED indication

Technical specification
$\left.\begin{array}{ll}\text { Conformity standards: } & \begin{array}{l}\text { IEC 947-1, EN 547-5-1 \& EN 547-5-3 } \\ \text { EN 60204-1, EN 1088, }\end{array} \\ \text { SG Approval }\end{array}\right\}$
Contact Rating:
Degree of protection:
Operating temperature:
Dimensions:
Compacts -
Standard -
Safety Data:

100 mA @ 24 V DC
IP67
$-25^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
$16 \times 51 \times 7 \mathrm{~mm}$
$25 \times 88 \times 13 \mathrm{~mm}$
B10 $=10$ million operations $\mathrm{B} 10 \mathrm{D}=50$ million operations

Compact Magnetic Switches - 2m Integrated Gable

| Contact Configuration |  | Type | Part №. |
| :---: | :---: | :---: | :---: |
| 1N0+1NC | 24V DC | without LED | XCSDMC5902 |
|  |  | with LED | XCSDMC5912 |
| 2NC | 24V DC | without LED | XCSDMC7902 |
|  |  | with LED | XCSDMC7912 |

Standard Magnetic Switches - 2 m Integrated Cable

| 2NO+1NC | 24 V DC | without LED | XCSDMP5002 |
| :--- | :--- | :--- | :--- |
|  |  | XCSDMP5012 |  |
| 2NC+1NO | 24 V DC | without LED | XCSDMP7002 |
|  |  | with LED | XCSDMP7012 |


| Coded Magnetic Safety Switch with Built-in Safety Module |  |  |
| :---: | :---: | :---: |
| Safety Category, Performance Level/SIL | Type | Part No. |
| CAT 3, PL d/SIL 2 | 2 m lead | XCSDM379102 |
|  | 5 m lead | XCSDM379105 |
|  | 10 m lead | XCSDM379110 |
|  | M12 connector | XCSDM3791M12 |
| CAT 4, PL e/SIL 3 | 2 m lead | XCSDM480102 |
|  | 5 m lead | XCSDM480105 |
|  | 10 m lead | XCSDM480110 |
|  | M12 connector | XCSDM4801M12 |
| Accessories |  |  |
| Spare magnet for XCSDM3 and XCSDM4 |  | XCSDMT |
| Pre-wired connector 10m PUR FEM CON |  | XZCP29P12L10 |
| Pre-wired connector 2m PUR FEM CON M12 |  | XZCP29P12L2 |
| Pre-wired connector 5m PUR FEM CON M12 |  | XZCP29P12L5 |

Safety Switches

| Guardmaster Trojan 5 Series |  |
| :--- | :--- |
| Description | Part No. |
| M20 Interlock 2NC/1N0 | 440K-T11090 |
| M20 Interlock c/w flexible actuator | $440 \mathrm{~K}-\mathrm{T11110}$ |
| Guardmaster Liffeline 4 Series |  |
| Description | Part No. |
| LRS-4 M20 Rope switch | 440E-L13042 |
| LRTS 5m Installation kit | 440E-A13079 |
| LRTS 15m Installation kit | 440E-A13081 |

## Ferrogard

Description
FRS-2 2 2m wired 1NC/1N0
INC

FRS-6 1NC 250V AC 2A 4m PVC cable
440N-G02002 440N-H02047

FRS-6 1NC 24V DC 1A 2m PVC cable

## Rotacam Switch

Description
HS2 M20 3 Pole rotacam 2NC/1N0 hinge switch



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## SRB 100DR

Safety control modules for special applications/safety relay module for double reset

- Safety relay module for double reset
- Suitable for signal processing of potential-free outputs, e.g. command devices
- 1 safety contact, STOP 0


## Operating Modes

- Emergency-stop buttons
- Guard systems
- Pull-wire emergency stop switches


## SRB 100DR Series

Ambient conditions
Environmental temperature: $\quad$ Min. $-25^{\circ} \mathrm{C}$ Max. $+45^{\circ} \mathrm{C}$
Storage/transport temperature: $\quad \mathrm{Min} .-25^{\circ} \mathrm{C}$
Max. $+70^{\circ} \mathrm{C}$
Protection class-Enclosure: IP40
Protection class-Terminals: IP20
Protection class-Clearance: IP54

## SRB 301LC

Guard door monitors and safety control modules for emergency stop Applications / monitoring of electromechanical switchgear

- 3 Safety contacts, STOP 0
- 1 signalling output
- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks

Operating Modes

- Emergency stop buttons
- Guard systems
- Pull-wire emergency stop switches


## SRB 301LC Series

## Voltage

24V AC/DC
Part No.

## SRB 301MC

Guard door monitors and safety control modules emergency stop applications/monitoring of electromechanical switchgear

- Fit for signal evaluation of outputs of safety magnetic switches
- 3 Safety contacts, STOP 0
- 1 signalling output
- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks


## Operating Modes

- Emergency stop button
- Guard systems
- Pull-wire emergency stop switches
- Safety light curtain
- Safety sensor


## Ambient conditions

Environmental temperature: Min. $-25^{\circ} \mathrm{C}$
trageltron
. $\mathrm{Max}+85^{\circ} \mathrm{C}$
Protection class-Enclosure:
Protection class-Terminals: Protection class-Clearance:

IP40
IP20
IP54


## SRB 301MC Series

## SRB 301ST

Guard door monitors and safety control modules for emergency stop applications/monitoring of electromechanical switchgear

- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks
- Suitable for signal processing of outputs connected to potentials (AOPDs), e.g. safety light grids/curtains
- Fit for signal evaluation of outputs of safety magnetic switches
- 3 Safety contacts, STOP 0
- 1 signalling output


## Operating Modes

- Emergency stop buttons
- Guard systems
- Pull-wire emergency stop switches
- Safety light curtain
- Safety sensor


## SRB 301ST Series

Environmental temperature: $\quad$ Min. $-25^{\circ} \mathrm{C}$
Storage/transport temperature: Min. $-40^{\circ} \mathrm{C}$
Max. $+85^{\circ} \mathrm{C}$
Protection class-Enclosure:
Protection class-Terminals:
P40
Protection class-Terminals: IP20
Protection class-Clearance: IP54

## Preventa XPS Safety Relays

- Normally open safety relay outputs
- Normally closed contacts and or Solid state outputs for signalling e.g. to PLCs, beacons etc.
- Suitable for Performance Levels (PL) within EN IS013849-1, and Safety Integrity Levels (SIL) within EN 62061
- TUV, CSA, UL, CCC

Technical Specification

| Conformity standards: EN |  |  | EN 60204-1, EN 13850, EN ISO 13849-1, EN 62061, EN 60204-1 Internal, electronic $-10^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |  | Output: <br> Breaking capacity <br> Output fuse protection: |  | AC15 C300: Inrush 1800VA <br> Maintained 180VA <br> DC13 24V/1.5A -L/R = 50 ms |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fuse protection: Operating temperature: |  |  |  |  | Output fuse protection: |  | 6A fast acting, 4A gG |  |  |  |
| Preventa XPS Features |  |  |  |  |  |  |  |  |  |  |
| Type | Outputs |  | Solid State (signalling) | Safety Category Acc. to EN ISO 13849-1 | ```Performance Level (PL) Acc. to EN ISO 13849-1``` | Safety Integrity Level (SIL) Acc. to EN 62061 | LED <br> Indicators | Dimentions (mm) |  |  |
|  | Safety No | Signalling NC |  |  |  |  |  | Depth | Height | Width |
| XPS AC | 3 | - | 1 | 3 | d | 2 | 2 | 111 | 99 | 22.5 |
| XPS AF | 3 | - | - | 4 | e | 3 | 3 | 111 | 99 | 22.5 |
| XPS AK | 3 | 1 | 4 | 4 | e | 3 | 4 | 114 | 99 | 45 |
| XPS AR | 7 | 2 | 4 | 4 | e | 3 | 4 | 114 | 99 | 90 |
| XPS ATE | 3 Instant <br> +3 Delay <br> 2 Instant | - | 4 | 4, 3 | e, d | 3, 2 | 4 | 114 | 99 | 45 |
| XPS AV | +3 Delay | - | 4 | 4, 3 | e, d | 3, 2 | 11 | 114 | 99 | 45 |
| XPS VNE | $1+1 \mathrm{INC}$ | - | 2 | 3 | d | 2 | 4 | 114 | 99 | 45 |
| XPS DMB | 2 | - | 2 | 4 | e | 3 | 3 | 111 | 99 | 22.5 |
| XPS DME | 2 | - | 2 | 4 | e | 3 | 15 | 111 | 99 | 45 |
| XPS BF | 2 | - | 2 | 4 | e | 3 | 3 | 111 | 99 | 22.5 |


| Preventa Safety Relays |  |  |  |
| :---: | :---: | :---: | :---: |
| Functionality |  | Voltage | Part No. |
| Emergency stop | Switch monitoring | 24V AC/DC | XPSAC5121 |
|  |  | 115 V AC | XPSAC3421 |
|  |  | 230 V AC | XPSAC3721 |
|  |  | 24V AC/DC | XPSAF5130 |
| Emergency stop | Switch/light curtain monitoring | 24 V AC/DC | XPSAFL5130 |
| Emergency stop | Switch/sensing mats/light curtain monitoring | 24V AC/DC | XPSAK311144 |
|  |  | 110 V AC/24V DC | XPSAK361144 |
|  |  | 230 V AC/24V DC | XPSAK371144 |
| Monitoring of tw | control stations (e.g. XY2SB devices) | 24V DC | XPSBF1132 |
| Emergency stop | For zero speed detection of AC/DC motors | 24V DC | XPSVNE1142P |
| Emergency stop | Guard switch monitoring with 0-30 sec time delay Stop category 0 (instantaneous) and stop category 1 time delay outputs | 24V AC/DC | XPSATE5110P |
|  |  | 230V AC | XPSATE3710P |
| Emergency stop | Guard switch monitoring with 0-300 sec time delay Stop category 0 (instantaneous) and stop category 1 time delay outputs | 24V DC | XPSAV11113 |
| Coded magnetic switch enabling | Up to 2 pairs (e.g XCSDMC/DMP/DMR) | 24V DC | XPSDMB1132 |
|  | Up to 6 pairs (e.g XCSDMC/DMP/DMR) | 24V DC | XPSDME1132 |
| Emergency stop | Guard switch/light curtain monitoring | 24V AC/DC | XPSAR311144 |
|  |  | 115 V AC/24V DC | XPSAR351144 |
|  |  | 230 V AC/24V DC | XPSAR371144 |




Safety Relays


## PNOZsigma safety relays

| Technical specification | PN0Zs1 | PNOZs2 | PNOZs3 | PNOZs4 | PNOZs5 | PNOZs6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Input channels | 1 | 1 | 1 \& 2 | 2 | 2 | 2 |
| Safety outputs | 2 N0 | 3 N0 | 2 N0 | 3 N0 | 2 N0 | 3 N0 |
| Safety outputs (timed) | - | - | - | - | 2 N0 | - |
| Time delay range | - | - | - | - | 0-300 secs | - |
| Auxiliary outputs | - | 1 NC | - | 1 NC | - | 1 NC |
| Semi conductor outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Input options |  |  |  |  |  |  |
| Emergency stop | - | - | - | - | - | - |
| Safety gate switch | - | - | - | - | - | - |
| Light curtain | - | - | - | - | - | - |
| Two-hand control | - | - | - | - | - | - |
| Reset | Manual | Manual/monitored | Monitored | Manual/ | utomatic | Manual |
| Start | Automatic | Automatic | Start-up test | Start-up test | Start-up test | - |
| Supply voltage | 24 V DC | 24V DC | 24V DC | 24V DC | 24V DC | 24V DC |
| Universal power supply | - | - | - | 48-240V AC/DC | 48-240V AC/DC | - |
| External fast fuse rating | 4A | 4A | 4A | 6A/10A | 6A | 6A |
| Connections | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in |
| Housing width (mm) | 12.5 | 17.5 | 17.5 | 22.5 | 22.5 | 22.5 |
| PFHo | $2 \times 10^{-7}$ | $2.5 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.62 \times 10^{-9}$ |
| PFHo (delayed) | - | - | - | - | $2.14 \times 10^{-9}$ | - |
| Safety category | Cat 2 | Cat 2 | Cat 4 | Cat 4 | Cat 4 | EN574, Typ IIIC |
| Performance level | PLd | PLd | PLe | PLe | PLe | PLe |
| SIL claim | SIL CL2 | SIL CL3 | SIL CL3 | SIL CL3 | SIL CL3 | SIL CL3 |

- Can be connected


Spring-loaded Terminals

PNOZsigma contact expander modules

| Technical specification | PNOZs7 | PNOZs7.1 | PNOZs7. 2 | PNOZs8 | PNOZs9 | PNOZs10 | PN0Zs11 | PNOZs22 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Safety outputs | 4 N0 | 3 N0 | 4 N0 | 2 N0 | 3 N0 | 4 N0 | 8 N0 | $2 \times 3$ N0 |
| Safety outputs (timed) | - | - | - | - | - | - | - | - |
| Time delay range | - | - | - | - | 0-300 secs | - | - | - |
| Auxiliary outputs | 1 NC | - | 1 NC | - | 1 NC | 1 NC | 1 NC | 2 NC |
| Semi conductor outputs | 1 | 1 | 1 | 1 | - | - | - | - |
| Compatible relays |  |  |  |  |  |  |  |  |
| PNOZelog | - | - | - | - | - | - | - | - |
| PNoZmulti | - | - | - | - | - | - | - | - |
| PNOZsigma | - | - | - | - | - | - | - | - |
| PNoZmm0.1p | - | - | - | - | - | - | - | - |
| PNoZmm0.2p | - | - | - | - | - | - | - | - |
| PNOZ X | - | - | - | - | - | - | - | - |
| Supply voltage | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24V DC |
| External fast fuse rating | 6A | 6A | 6A | 4A | 6A | 10A | 10A | 6A |
| Connections | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in | Plug-in |
| Housing width (mm) | 17.5 | 17.5 | 17.5 | 12.5 | 17.5 | 45 | 45 | 22.5 |
| PFHo | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2 \times 10^{-7}$ | $2.34 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ | $2.31 \times 10^{-9}$ |
| Safety category* | Cat 4 | Cat 4 | Cat 4 | Cat 2 | Cat 4 | Cat 4 | Cat 4 | Cat 4 |
| Performance level* | PLe | PLe | PLe | PLe | PLe | PLe | PLe | PLe |
| SLL claim* | SIL CL3 | SIL CL3 | SIL CL3 | SIL CL2 | SIL CL3 | SIL CL3 | SIL CL3 | SIL CL3 |

- Can be connected
*The category that can be achieved depends on the category of the base unit. The contact expander module may not exceed this.


## Screw Terminals

| Description | Ident No | Part No. |
| :--- | :--- | :--- |
| PNOZs7 | 750107 | PNOZS724VDC |
| PNOZs7.1 | 750167 | PNOZS7124VDC |
| PNOZs7.2 | 750177 | PNOZS7224VDC |
| PNOZs8 | 750108 | PNOZS824VDC |
| PNOZs9 | 750109 | PNOZS924VDC |
| PNOZs10 | 750110 | PNOZS1024VDC |
| PNOZs11 | 750111 | PNOZS1124VDC |
| PNOZs22 | 750132 | PNOZS2224VDC |

Spring-loaded Terminals

| Description | Ident No | Part No. |
| :--- | :--- | :--- |
| PNOZs7 | 751107 | PNOZS7C24VDC |
| PNOZs7.1 | 751167 | PNOZS71C24VDC |
| PNOZs7.2 | 751177 | PNOZS72C24VDC |
| PNOZs8 | 751108 | PNOZS8C24VDC |
| PNOZs9 | 751109 | PNOZS9C24VDC |
| PNOZs10 | 751110 | PNOZS10C24VDC |
| PNOZs11 | 751111 | PNOZS11C24VDC |
| PNOZs22 | 751132 | PNOZS22C24VDC |



THE SPIRIT OF SAFETY





Signal Towers


## Signal Towers

Plug together light/audible signal towers. Easily user configured using selectable links in each module to provide up to 5 independently switched sections in each tower. Quick and easy to assemble. IP66 as standard.

| SL7 Serics Light Modules |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Voltage | Colour | Continuous Light Part No. | Flashing Light Part No. | Strobe Light Part No. |
| 24V DC |  | SL7-L24-B | SL7-BL24-B | SL7-FL24-B |
|  |  | SL7-L24-G | SL7-BL24-G | SL7-FL24-G |
|  |  | SL7-L24-R | SL7-BL24-R | SL7-FL24-R |
|  |  | SL7-L24-W | SL7-BL24-W | SL7-FL24-W |
|  |  | SL7-L24-Y | SL7-BL24-Y | SL7-FL24-Y |
|  |  | SL7-L24-A | SL7-BL24-A | SL7-FL24-A |
|  |  |  |  |  |
| 230 V AC |  | SL7-L230-B | SL7-BL230-B | SL7-FL230-B |
|  |  | SL7-L230-G | SL7-BL230-G | SL7-FL230-G |
|  |  | SL7-L230-R | SL7-BL230-R | SL7-FL230-R |
|  |  | SL7-L230-W | SL7-BL230-W | SL7-FL230-W |
|  |  | SL7-L230-Y | SL7-BL230-Y | SL7-FL230-Y |
|  |  | SL7-L230-A | SL7-BL230-A | SL7-FL230-A |

SL7 Series Sounders

| Voltage | Part No. |
| :--- | :--- |
| 24V DC | SL7-AP24 |
| 230 V AC | SL7-AP230 |
|  |  |
| SL7 Ser'cs BaSe + Stand |  |
| Hight (mm) | Part No. |
| 100 | SL7-CB-100 |
| 250 | SL7-CB-250 |
| 400 | SL7-CB-400 |
| 800 | SL7-CB-800 |

SL7 Series Wall Bracket
Description
Part No.
One-sided base with bracket spring-loaded terminals
SL7-CB-FW

Schneider
$\square$ Part No. Completion When ordering complete the Part No. by adding the following:-


## Harmony Beacons

| Description |  | Part No. | Insert <br> Colour |
| :---: | :---: | :---: | :---: |
| Base unit \& cover | Side or bottom cable entry | XVBC21 |  |
| Base unit \& cover with AS-i connection | Bottom cable entry | XVBC21B |  |
| LED Unit | 24V AC/DC - permanent light | XVBC2B | $\square$ |
| LED Unit | 230V AC - permanent light | XVBC2M | $\square$ |
| Sounder unit | 12..48V AC/DC - Adjustable 70..90dB | XVBC9B |  |
|  | 120..230V AC - Adjustable 70..90dB | XVBC9M |  |
| 100 mm Black aluminium metal tube + foot mount |  | XVBZO2 |  |
| Flashing light LED | 24V AC/DC | XVBC5B | $\square$ |
|  | 230 V AC | XVBC5M | $\square$ |
| Flashing discharge tube | 24 V AC/DC | XVBC6B | $\square$ |

230 V AC

With the i-switch range comes an important safety feature which prevents the enclosure cover being removed when the device has been padlocked in the 'Off' position. When combined with the excellent on-load breaking capacity of the i-switch family this feature ensures that the term 'Safety Switch' is fully satisfied.


| Moulded Plastic |  |  |
| :--- | :--- | :--- |
| Poles | Rating A | Part No. |
| 2 | 25 | SDP252 |
| 3 | 25 | SDP253 |
| $4(3 P+N)$ | 25 | SDP253N |
| 6 | 20 | SDP256 |
| 2 | 40 | SDP402 |
| 3 | 40 | SPP402 |
| $4(3 P+N)$ | 40 | SPP403N |
| 6 | 40 | SPP406 |
| 2 | 63 | SDP632 |
| 3 | 63 | SDP633 |
| $4(3 P+N)$ | 63 | SDP633N |
| Steel |  |  |
| 2 | 25 | SDMG252 |
| 3 | 25 | SDMG253 |
| 2 | 40 | SDPMG402 |
| 3 | 40 | SDMG403 |
| 2 | 63 | SDMG632 |
| 3 | 63 | SDMG633 |
| Stainless Stee |  |  |
| 2 | 25 | SDS252 |
| 3 | 25 | SDS253 |
| 2 | 40 | SDS402 |
| 3 | 63 | SDS403 |
| 2 | 63 | SDS632 |
| 3 |  |  |

We supply the complete Craig \& Derricott i-Switch range, contact your local sales office for details.


ATEX Zone 22 (category 3D) non-conductive dust range


The Craig \& Derricott i-Push range of assembled 'Emergency STOP' stations is extensive and offers the user the widest range of options, which include:

- Moulded or die-cast stayput actuators
- Surface or flush mounting
- Enclosure materials - Polycarbonate, polyester, die-cast aluminium and stainless steel
- Flap cover operated actuators (padlockable to prevent unauthorised rest)
- Multi-contact options



## i-Push Range



## Features

- IP65 Protection
- Continuous thermal current (lth) 10A
- Yellow/Black insulated enclosure with 2 knock-outs


## Moulded Plastic


Specifications

| Item | F3S-TGR-CL2_-0_ F3S-TGR-CL4_-0 |
| :---: | :---: |
| Sensor type | Type 2 Type 4 |
| Protective height | $500 \mathrm{~mm}, 800 \mathrm{~mm}, 900 \mathrm{~mm}$ or $1,200 \mathrm{~mm}$ |
| Operating range: | F3S-TGR-CL_-K_ 0.5 to 20 m or 20 to 40 m (Dip switch option) <br> F3S-TGR-CL $\qquad$ -K - $\qquad$ -LD 25 to 50 m <br> F3S-TGR-CL $\qquad$ K2C-500 0.5 to 12 m <br> F3S-TGR-CL_-K3C-800 0.5 to 8 m <br> F3S-TGR-CL $\qquad$ -K4C- $\qquad$ 0.5 to 7 m |
| Beam pitch | F3S-TGR-CL__-K2_-500: 2 beams, 500 mm F3S-TGR-CL__-K3_-800: 3 beams, 400 mm F3S-TGR-CL__-K4_-900: 4 beams, 300 mm F3S-TGR-CL__-K4_-1200: 4 beams, 400 mm |
| Effective aperture angle (EAA) | Within $\pm 5^{\circ} \quad$ Within $\pm 2.5^{\circ}$ |
|  | for the emitter and receiver at a detection distance of at least 3m according to IEC 61496-2 |
| Light source | Infrared LED (880nm), power dissipation <3mW, Class 1 per EN 60825-1 |
| Supply voltage | 24V DC $\pm 20 \%$, according EN 60204-1 able to cover a drop of voltage of at least 20ms |
| OSSD | 2 PNP transistor outputs, load current $2 \times 250 \mathrm{~mA} \mathrm{max}$ |
| Test functions | Self test (after power ON and during operation) |


| Basic feature set ${ }^{\text {t }}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| stem | Sensing distance | Detection capability | Part No. |
| Active/passive | 0.5m ...12m | 500 | F33-TGR-CLL2B-K2C-500 |
|  | $0.5 \mathrm{~m} . . .8 \mathrm{~m}$ | ${ }_{300}$ | F33-TCTR-CLI2S-K3C-800 |
|  | 0.5m ...7m | 300 400 |  |
|  | 0.5m ... 40m | ${ }_{500}$ |  |
| Activeactive |  | 400 |  |
|  |  | 300 | ${ }^{\text {F33-TGR-CLL2B-K44-900 }}$ |
|  |  | 400 500 |  |
| Activeactive, Iong distance | 25m ... 50m | 500 400 |  |
|  |  |  |  |
|  |  | 400 | F3S-TGR-CL28-K4-1200-LD |
| Advanced feature set ${ }^{\text {2 }}$ |  |  |  |
| Active/passive | $\frac{0}{0.5 m m} 0 . .12 \mathrm{~mm}$ | 500 | F3S-TGR-CLL2A-K2C-500 |
|  |  | 400 | F3S-TTRR-CLI2A-K3C-800 |
|  | $0.5 \mathrm{~m} . . .7 \mathrm{~m}$ | 300 400 |  |
| Activ/active | 0.5m ... 40m | 500 | F3S-TGR-CLI2-K2-500 |
|  |  | 400 300 | ${ }^{\text {FF3S-TGP-CL2A-K3-800 }}$ |
|  |  | 300 400 |  |
|  |  | 500 | F33-TGR-CCL2A-K2-500-LD |
| Activelactive, Iong distance | 25m ... 50 m | 400 | F33-TGR-CL22A-33-800-LD |
|  |  | 300 400 |  |

${ }^{*} 1$ Basic feature set: Manual/automatic restart, coding
*2 Advanced feature set: Basic + Muting + integrated Muting lamp + Pre-reset
F3S-TGR-CL4_-K_ (Type 4)
Basic feature set* ${ }^{*}$

| System | Sensing distance | Detection capability | Part No. |
| :---: | :---: | :---: | :---: |
| Active/passive | 0.5m ... 12m | 500 | F3S-TGR-CL4B-K2C-500 |
|  | 0.5m ... 8m | 400 | F3S-TGR-CL4B-K3C-800 |
|  | 0.5m ... 7m | 300 | F3S-TGR-CL4B-K4C-900 |
|  |  | 400 | F3S-TGR-CL4B-K4C-1200 |
| Active/active | 0.5m ... 40 m | 500 | F3S-TGR-CL4B-K2-500 |
|  |  | 400 | F3S-TGR-CL4B-K3-800 |
|  |  | 300 | F3S-TGR-CL4B-K4-900 |
|  |  | 400 | F3S-TGR-CL4B-K4-1200 |
| Active/active, long distance | 25m ... 50m | 500 | F3S-TGR-CL4B-K2-500-LD |
|  |  | 400 | F3S-TGR-CL4B-K3-800-LD |
|  |  | 300 | F3S-TGR-CL4B-K4-900-LD |
|  |  | 400 | F3S-TGR-CL4B-K4-1200-LD |
| Advanced feature set² |  |  |  |
| Active/passive | $0.5 \mathrm{~m} \ldots 12 \mathrm{~m}$ | 500 | F3S-TGR-CL4A-K2C-500 |
|  | $0.5 \mathrm{~m} \ldots 8 \mathrm{~m}$ | 400 | F3S-TGR-CL4A-K3C-800 |
|  | 0.5m ... 7 m | 300 | F3S-TGR-CL4A-K4C-900 |
|  |  | 400 | F3S-TGR-CL4A-K4C-1200 |
| Active/active | 0.5m ... 40m | 500 | F3S-TGR-CL4A-K2-500 |
|  |  | 400 | F3S-TGR-CL4A-K3-800 |
|  |  | 300 | F3S-TGR-CL4A-K4-900 |
|  |  | 400 | F3S-TGR-CL4A-K4-1200 |
| Active/active, long distance | 25m ... 50m | 500 | F3S-TGR-CL4A-K2-500-LD |
|  |  | 400 | F3S-TGR-CL4A-K3-800-LD |
|  |  | 300 | F3S-TGR-CL4A-K4-900-LD |
|  |  | 400 | F3S-TGR-CL4A-K4-1200-LD |

*1 Basic feature set: Manual/automatic restart, coding
*2 Advanced feature set: Basic + Muting + integrated Muting lamp + Pre-reset
Accessories

## Receiver Cables (M12-8pin, shielded, flying leads)

Part No.


Receiver cable, 2 m length Receiver cable 10 m length Receiver cable, 25m length

Transmitter Cables (M12-4pin,

cads

Transmitter cable, 2 m length Y92E-M12PURSH4S2M-L Transmitter cable, 5 m length Y92E-M12PURSH4S5M-L Transmitter cable, 10 m length Y92E-M12PURSH4S10M-L Transmitter cable, 25m length Y92E-M12PURSH4S25M-L

Mounting brackets

|  | Mounting bracket | Mounting bracket x 1, <br> SLC mounting screws x 1 set |
| :--- | :--- | :--- |
|  | Adjustable bracket x 1, <br> Bracket mounting screws <br> x 1 set | F39-TGR-ST-ADJ |

Mounting bracket x 1 ,

Adjustable bracket x 1 , $\times 1$ set

