区 Preferred typ


- thermoplastic enclosure
- Double-insulated 미
- Compact design
- $90 \mathrm{~mm} \times 84 \mathrm{~mm} \times 30 \mathrm{~mm}$
- 1 Cable entry M $20 \times 1.5$
- Interlock with protection against incorrect locking.
- Long life
- High holding force
- IDC method of termination
- Manual release
(Minor differences between the printed image and the original product may exist!)


## Ordering details

| Product type description | AZM 170-11ZRKA 24 VAC/DC |
| :--- | :--- |
| Article number | 1140796 |
| EAN code | 4030661119847 |

## Approval

Approval


## Classification

## Standards

B10d Opener (NC)
Mission time
notice

EN ISO 13849-1
2.000 .000

20 Years
MTTF $_{d}=\frac{B_{10 d}}{0,1 \times \mathrm{n}_{\text {op }}}$
$\mathrm{n}_{\mathrm{op}}=\frac{\mathrm{d}_{\mathrm{op}} \times \mathrm{h}_{\mathrm{op}} \times 3600 \mathrm{~s} / \mathrm{h}}{\mathrm{t}_{\text {opcle }}}$

Global Properties

| Product name | AZM 170 |
| :---: | :---: |
| Standards | EN 60947-5-1, BG-GS-ET-19 |
| Compliance with the Directives (Y/N) $¢ €$ | Yes |
| Number of actuating directions | 2 piece |
| Active principle | electromechanical |
| Duty cycle | Magnet 100 \% |
| Materials |  |
| - Material of the housings | Plastic, glass-fibre reinforced thermoplastic, selfextinguishing |
| - Material of the contacts | Silver |
| Housing coating | None |
| Weight | 278 g |
| Mechanical data |  |
| Design of electrical connection | IDC method of termination |
| Cable section |  |
| - Min. Cable section | $1 \times 0,75 \mathrm{~mm}^{2}$ |
| - Max. Cable section | $1 \times 1.0 \mathrm{~mm}^{2}$, flexible |
| Mechanical life | > 1.000.000 operations |
| Emergency unlocking device (Y/N) | No |
| Manual release (Y/N) - bottom | Yes |
| Emergency release (Y/N) | No |
| Latching force | 30 N |
| Positive break force | 8.5 N |
| positive break travel | 11 mm |
| Clamping force $\mathrm{F}_{\text {max }}$ | 1000 N |
| Max. Actuating speed | $2 \mathrm{~m} / \mathrm{s}$ |
| Ambient conditions |  |
| Ambient temperature |  |
| - Min. environmental temperature | $-25^{\circ} \mathrm{C}$ |
| - Max. environmental temperature | $+60^{\circ} \mathrm{C}$ |
| Protection class | IP67 to IEC/EN 60529 |
| Electrical data |  |
| Design of control element | Normally open contact (NO), Opener (NC) |
| Switching principle | Creep circuit element |
| Number of auxiliary contacts | 1 piece |
| Number of safety contacts | 1 piece |
| Power to unlock | No |
| Power to lock | Yes |
| Rated control voltage $U_{\text {s }}$ | $24 \mathrm{VAC} / \mathrm{DC}$ |
| Power consumption | max. 10 W |
| Rated impulse withstand voltage Uimp | 4 kV |
| Rated insulation voltage $U_{i}$ | 250 V |
| Thermal test current lthe | 10 A |
| Utilisation category | AC-15: $230 \mathrm{~V} / 4 \mathrm{~A}, \mathrm{DC}-13: 24 \mathrm{~V} / 4 \mathrm{~A}$ |
| Max. fuse rating | $6 \mathrm{AgG} \mathrm{D-fuse}$ |

## ATEX

| Explosion protection categories for gases | None |
| :--- | :--- |
| Explosion protected category for dusts | None |

## Miscellaneous data

Applications


## Dimensions

## Dimensions of the sensor

| - Width of sensor | 90 mm |
| :--- | :--- |
| - Height of sensor | 84 mm |
| - Length of sensor | 30 mm |

## notice

This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules
Individual coding available on request
Manual release

- For manual release using M5 triangular key, available as accessory


## Diagram



Note Diagram
$\Leftrightarrow$ positive break NC contact
(1) active
(0) no active
$\xrightarrow{\sim} \rightarrow$ Normally-open contact
0 Normally-closed contact

## Switch travel diagram



Notes Switch travel diagramContact closedContact openSetting range
(L) Break point
(P) Positive opening sequence/- angle

VS adjustable range of NO contact
VÖ adjustable range of NC contact
N after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZM 170-11ZRKA 24 VAC/DC-1637

| $\ldots-1637$ | $0,3 \mu \mathrm{~m}$ gold-plated contacts |
| :--- | :--- |
| $\ldots$ ST-2431 | connector M12, Individual solenoid monitoring |

## Ordering code

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

(1)
without IDC method of termination
SK Screw connection
(2)

111 Normally open contact (NO) / 1 Opener (NC)
$02 \quad 2$ Opener (NC)
12/0.0 1 Normally open contact (NO), 2 Opener (NC) / -
(3)

| without | Latching force 5 N |
| :--- | :--- |
| R | Latching force 30 N |
| l | Individual coding |

(4)
without Power to unlock
A Power to lock
(5)
without cable gland
ST Connector M12 x 1
ST-2431 Connector M12 x 1, Individual solenoid monitoring
(6)

24VAC/DC Us 24 VAC/DC
110VAC Us 110 VAC
230VAC Us 230 VAC
(7)
without Manual release
2197 Manual release from side (Power to unlock)
1637 gold-plated contacts

```
(1)
11/11 1 Normally open contact (NO), 1 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
11/02 1 Normally open contact (NO), 1 Opener (NC) / 2 Opener (NC)
12/00 1 Normally open contact (NO), 2 Opener (NC) / -
12/11 1 Normally open contact (NO), 2 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
12/02 1 Normally open contact (NO), 2 Opener (NC) / 2 Opener (NC)
02/01 2 Opener (NC), - / }1\mathrm{ Opener (NC), -
02/10 2 Opener (NC), - / }1\mathrm{ Normally open contact (NO), -
(2)
without Latching force 5 N
R Latching force 30 N
(3)
without Power to unlock
A Power to lock
(4)
1637 gold-plated contacts
(5)
2197 Manual release for Power to unlock
```

Images


Dimensional drawing (basic component)


Assembly example


## Actuator

# 1122893 - AZ 17/170-B1 

- Particularly suitable for sliding doors


Accessories

## 皿数

## 1100887 - TRIANGULAR KEY M5



- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.


## Connector

| A-K4M12 |  |
| :--- | :--- |
| SCHMER5RL | •Pre-wired cable |
| •4-pole |  |

## S-K4M12



- Connector without cable
- 4-pole
K.A. Schmersal GmbH, Möddinghofe 30, D-42279 Wuppertal

The data and values have been checked throroughly. Technical modifications and errors excepted.
Generiert am 10.10.2011-11:21:36h Kasbase 1.5.5 DBI

