



## AZ 15 ZVRK-M20

- 3 cable entries M 20 x 1.5
- Thermoplastic enclosure
- Double-insulated
- Long life
- 52 mm x 75 mm x 30 mm
- Universal coding
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- Insensitive to soiling

## Data

### Ordering data

|                               |                |
|-------------------------------|----------------|
| Product type description      | AZ 15 ZVRK-M20 |
| Article number (order number) | 101157376      |
| EAN (European Article Number) | 4030661180069  |
| eCl@ss number, Version 9.0    | 27-27-26-02    |
| eCl@ss number, Version 11.0   | 27-27-26-02    |
| ETIM number, version 7.0      | EC002592       |
| ETIM number, version 6.0      | EC002592       |

### Approval - Standards

|              |                            |
|--------------|----------------------------|
| Certificates | TÜV<br>cULus<br>CCC<br>EAC |
|--------------|----------------------------|

### General data

|                                     |     |
|-------------------------------------|-----|
| Coding level according to ISO 14119 | Low |
|-------------------------------------|-----|

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Material of the contacts, electrical | Silver                                                            |
| Gross weight                         | 95 g                                                              |

## General data - Features

|                           |     |
|---------------------------|-----|
| Suitable for elevators    | Yes |
| Number of safety contacts | 1   |

## Safety appraisal

|              |                                               |
|--------------|-----------------------------------------------|
| Standards    | BG-GS-ET-15<br>EN ISO 13849-1<br>EN 60947-5-1 |
| Mission Time | 20 Year(s)                                    |

## Safety appraisal - Safety outputs

|                                   |                      |
|-----------------------------------|----------------------|
| B10d Normally-closed contact (NC) | 2,000,000 Operations |
|-----------------------------------|----------------------|

## Mechanical data

|                               |                      |
|-------------------------------|----------------------|
| Mechanical life, minimum      | 1,000,000 Operations |
| Latching force                | 30 N                 |
| positive break travel         | 8 mm                 |
| Positive break force, minimum | 10 N                 |
| Actuating speed, maximum      | 2 m/s                |

## Mechanical data - Connection technique

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Terminal Connector     | Screw terminals                                                               |
| Cable entry            | 3 x M20 x 1,5                                                                 |
| Cable section, minimum | 0.25 mm²                                                                      |
| Cable section, maximum | 2.5 mm²                                                                       |
| Note (Cable section)   | All indications about the cable section are including the conductor ferrules. |

## Mechanical data - Dimensions

|                  |       |
|------------------|-------|
| Length of sensor | 30 mm |
| Width of sensor  | 52 mm |
| Height of sensor | 75 mm |

## Ambient conditions

|                              |                  |
|------------------------------|------------------|
| Degree of protection         | IP67 to EN 60529 |
| Ambient temperature, minimum | -30 °C           |
| Ambient temperature, maximum | +80 °C           |

## Ambient conditions - Insulation value

|                                           |       |
|-------------------------------------------|-------|
| Rated insulation voltage $U_i$            | 500 V |
| Rated impulse withstand voltage $U_{imp}$ | 6 kV  |

## Electrical data

|                      |                       |
|----------------------|-----------------------|
| Thermal test current | 10 A                  |
| Switching element    | Opener (NC)           |
| Switching principle  | Creep circuit element |

## Electrical data - Safety contacts

|                                     |         |
|-------------------------------------|---------|
| Voltage, Utilisation category AC-15 | 230 VAC |
| Current, Utilisation category AC-15 | 4 A     |
| Voltage, Utilisation category DC-13 | 24 VDC  |
| Current, Utilisation category DC-13 | 4 A     |

## Scope of delivery

|                      |                                       |
|----------------------|---------------------------------------|
| Included in delivery | Actuators must be ordered separately. |
|----------------------|---------------------------------------|

## Ordering code

Product type description:  
AZ 15 ZV(1)K-(2)-(3)

(1)

|                |                     |
|----------------|---------------------|
| <b>without</b> | Ejection force      |
| <b>R</b>       | Latching force 30 N |

(2)

|            |                       |
|------------|-----------------------|
| <b>M16</b> | cable entry M16       |
| <b>M20</b> | Cable entry M20       |
| <b>ST</b>  | M12 connector, 4 pole |

(3)

|             |                      |
|-------------|----------------------|
| <b>2254</b> | Latching force 5 N   |
| <b>1762</b> | Front mounting       |
| <b>1637</b> | Gold-plated contacts |

## Documents

### Operating instructions and Declaration of conformity

AZ 15/16 (413.6 kB, 18.11.2020, W)

### Operating instructions and Declaration of conformity

(411.7 kB, 08.07.2021, W)

### CCC certification

AZ 15 / AZ 16 / AZ 17 / AZ 335 / AZ 355 (3.4 MB, 30.09.2020)

### EAC certification

(1.9 MB, 05.11.2019)

### UL Certificate

## Pictures



A black, rectangular safety switch with a textured surface. It features a top handle and four mounting holes. The front face has a label with technical specifications and safety symbols.

**SCHMERSAL**  
safety

**AZ 15 zk**

IP67  
IEC 947-5-1 VDE 0660  
AC-15 230V 4A

A 600  
LISTED 382 E  
Int. Conf. Eq.

CE

| 409.7 kB | .jpg | 168.981 x 228.6 mm - 479 x 648 px - 72 dpi  
| 105.9 kB | .png | 74.083 x 100.189 mm - 210 x 284 px - 72  
dpi

| 39.6 kB | .cdr |  
| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi  
| 61.6 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72  
dpi

0 L 2,3 5,5 P 8 11-12

| 19.1 kB | .cdr |  
| 1.5 kB | .png | 74.083 x 12.7 mm - 210 x 36 px - 72 dpi  
| 33.3 kB | .jpg | 352.778 x 60.325 mm - 1000 x 171 px - 72  
dpi

11  12

| 16.8 kB | .cdr |  
| 20.8 kB | .jpg | 352.778 x 53.622 mm - 1000 x 152 px - 72  
dpi

# System components

## Actuator



### **BETAETIGER AZ 15/16-B1 KPL.**

- Straight actuator
- Particularly suitable for sliding doors



### **AZ 15/16-B1-1747 NACHRUESTSATZ**

- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting
- Straight actuator with magnetic latch
- Particularly suitable for sliding doors



### **AZ 15/16-B1-2024 NACHRUESTSATZ**

- For protection against the ingress of coarse dirt
- Straight actuator with slot lip-seal
- Particularly suitable for sliding doors



### **AZ 15/16-B1-2053 NACHRUESTSATZ**

- For interlocking of light to medium-weight guards
- Straight actuator with ball latch
- Particularly suitable for sliding doors



### **AZ 15/16-B1-2177 NACHRUESTSATZ**

- For interlocking of light, unguided guards



**BETAETIGER AZ 15/16-B1-2245 KPL.**

- Damps vibration on guard device
- Straight actuator with rubber mounting
- Particularly suitable for sliding doors



**BETAETIGER AZ 15/16-B2 KPL.**

- For very small actuating radii in line with the plane of the actuator



**AZ 15/16-B2-1747 NACHRUESTSATZ**

- For very small actuating radii in line with the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



**BETAETIGER AZ 15/16-B3 KPL.**

- For very small actuating radii at 90° to the plane of the actuator



**AZ 15/16-B3-1747 NACHRUESTSATZ**

- For very small actuating radii at 90° to the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards
- The magnetic latch can be easily fitted in any actuating plane



**BETAETIGER AZ 15/16-B6 KPL.**

- For very small actuating radii in line with or at 90° to the plane of the actuator



**AZ 15 ZO-2036-3**

- Thermoplastic enclosure
- Double-insulated
- Long life
- 52 mm x 75 mm x 30 mm
- Universal coding
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- Insensitive to soiling



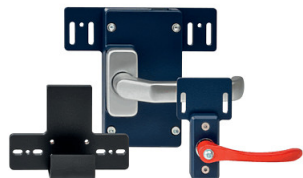
**AZ 16-STS30-01**



**AZ 16-STS30-02**



**AZ 16-STS30-04**



**AZ 16-STS30-05**



**AZ 16-STS30-06**



**AZ 16-STS30-07**



**AZ 16-STS30-08**

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 11/01/2022, 5:43 am