



AZ 16 ZVRK-G24-M20

- 3 cable entries M 20 x 1.5
- LED version available
- Large wiring compartment
- Integrated status indicator
- Thermoplastic enclosure
- Double-insulated
- 52 mm x 90 mm x 30 mm
- Universal coding
- Long life
- High level of contact reliability with low voltages and currents
- Insensitive to soiling
- Slotted holes for adjustment, circular holes for location

Data

Ordering data

Product type description	AZ 16 ZVRK-G24-M20
Article number (order number)	101182940
EAN (European Article Number)	4030661318493
eCl@ss number, version 12.0	27-27-26-02
eCl@ss number, version 11.0	27-27-26-02
eCl@ss number, version 9.0	27-27-26-02
ETIM number, version 7.0	EC002592
ETIM number, version 6.0	EC002592

Approvals - Standards

Certificates	cULus CCC
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General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	116 g

General data - Features

Indicator lamp	Yes
Integral system diagnostics, general	Yes
Number of actuating directions	3
Number of auxiliary contacts	1
Number of safety contacts	1
Number of cable glands	3

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I _e and ohmic load
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Latching force	30 N
Positive break travel	8 mm
Positive break force per NC contact, minimum	10 N
Positive break force, minimum	10 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	2x M6

Mechanical data - Connection technique

Cable entry	3 x M20 x 1,5
Termination	Screw terminals
Cable section, minimum	0.25 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire solid multi-wire flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	52 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-30 ... +80 °C
Storage and transport temperature	-40 ... +85 °C
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV
Overvoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	10 A
Required rated short-circuit current	1,000 A
Switching element	1 NO contact, 1 NC contacts
Switching principle	slow action, positive break NC contact
Maximum switching frequency	4,000 /h
Material of the contacts, electrical	Silver

Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
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Current, Utilisation category AC- 4 A
15

Voltage, Utilisation category DC- 24 VDC
13

Current, Utilisation category DC- 4 A
13

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC- 230 VAC
15

Current, Utilisation category AC- 4 A
15

Voltage, Utilisation category DC- 24 VDC
13

Current, Utilisation category DC- 4 A
13

Scope of delivery

Scope of delivery Slot covers for dust-proof covering of the openings not in use

Ordering code

Product type description:
AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

without	1 NO contact/1 NC contact
02	2 NC contact
03	3 NC contact
12	1 NO contact/2 NC contacts

(2)

without	Ejection force
R	Latching force 30 N

(3)

G24	with LED (only available for version with one NO and one NC contact)
(4)	
M16	cable entry M16
M20	Cable entry M20
ST	Connector M12, 4 pole, bottom
STL	Connector M12, 4 pole, left
STR	Connector M12, 4 pole, right
(5)	
2254	Latching force 5 N
1762	Front mounting
1637	Gold-plated contacts

Documents

Operating Instructions and Declaration of Conformity (Short)

Operating instructions in short form (For further information and languages, see the "Operation and assembly" tab) (410.7 kB, 26.10.2022)

UL Certificate

AZ 10 / AZ 15 / AZ 16 / AZ 20 (176.4 kB, 30.11.2023)

CCC certification

AZ15, AZ16, AZ17 (941.4 kB, 14.10.2024)

SISTEMA-VDMA library

(659.3 kB, 04.08.2023)

Pictures

Product picture (catalogue individual photo)



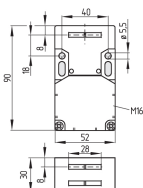
ID: kaz16f01

| 471.8 kB | .jpg | 165.806 x 268.817 mm - 470 x 762 px - 72 dpi

| 115.4 kB | .png | 74.083 x 119.944 mm - 210 x 340 px - 72 dpi

| 74.5 kB | .jpg | 76.2 x 123.472 mm - 216 x 350 px - 72 dpi

Dimensional drawing basic component



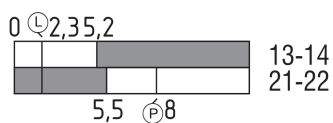
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| 28.1 kB | .cdr |

| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 62.3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Switch travel diagram



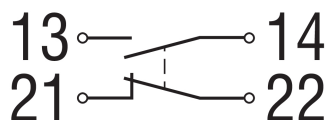
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| 19.8 kB | .cdr |

| 2.0 kB | .png | 74.083 x 25.753 mm - 210 x 73 px - 72 dpi

| 52.0 kB | .jpg | 352.778 x 123.119 mm - 1000 x 349 px - 72 dpi

Diagram



ID: k1o1sk01

| 52.2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi

| 2.6 kB | .png | 74.083 x 29.986 mm - 210 x 85 px - 72 dpi

System components

Actuator



ACTUATOR AZ 15/16-B1 CPL.

- Straight actuator
- Particularly suitable for sliding doors



ACTUATOR AZ 15/16-B1-1747 KPL.

- For play-free interlocking of light guards
- Suitable for retrofitting



ACTUATOR AZ 15/16-B1-2024 KPL.



ACTUATOR AZ 15/16-B1-2053 KPL.

- For interlocking of light to medium-weight guards



ACTUATOR AZ 15/16-B1-2177 KPL.

- For interlocking of light, unguided guards



ACTUATOR AZ 15/16-B1-2245 KPL.

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



ACTUATOR AZ 15/16-B2 CPL.

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



ACTUATOR AZ 15/16-B2-1747 KPL.

- For very small actuating radii in line with the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards



ACTUATOR AZ 15/16-B3 CPL.

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



ACTUATOR AZ 15/16-B3-1747 KPL.

- For very small actuating radii at 90° to the plane of the actuator
- Suitable for retrofitting
- For play-free interlocking of light guards



ACTUATOR AZ 15/16-B6 CPL.

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



AZ 15/16-B3-1747 RETROFIT KIT

- 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



AZ 15/16-B1-1747 RETROFIT KIT

- 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 RETROFIT KIT

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



AZ 15/16-B1-2053 RETROFIT KIT

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



AZ 15/16-B1-2177 RETROFIT KIT

- For interlocking of light, unguided guards



AZ 15/16-B2-1747 RETROFIT KIT

- 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



AZ 16-ST530-01



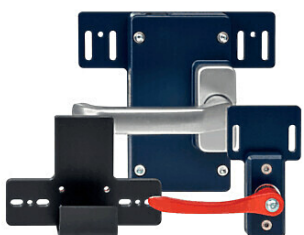
AZ 16-ST530-02



AZ 16-ST530-04



AZ 16-ST530-05



AZ 16-ST530-06



AZ 16-STS30-07



AZ 16-STS30-08

Accessories

Slot sealing plug AZ 15/16-1476



- For protection against the ingress of course dirt
- To cover unused actuator slots
- Simple clip-in fitting

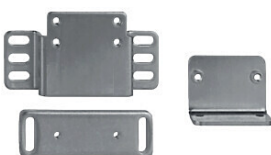


MOUNTING SET AZ 15/16 P



SET BC 2053-2

- Additional ball latch for stable latching of light to medium-weight guards
- For separate mounting on the guard



MOUNTING SET AZ 15/16 R/P

LOCKOUT TAG SZ 16/335



- To prevent inadvertent closing, e.g. during maintenance
- For complex plant
- Prevents actuation of the switch
- Up to 6 padlocks can be fitted
- The lockout tag can be mounted on a chain near to the safety switch

Schmersal Ltd., Sparrowhawk Close, WR14 1GL Malvern

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.

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