

Datasheet - AZ 16ZVRK

Safety switch with separate actuator / AZ 16



Preferred typ



- thermoplastic enclosure
- Double-insulated
- Large wiring compartment
- 52 mm x 90 mm x 30 mm
- Multiple coding
- Long life
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- 3 cable entries M 16 x 1.5
- LED version available

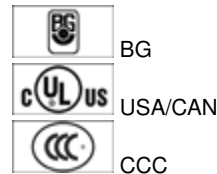
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	AZ 16ZVRK
Article number	101152094
EAN code	4030661164700

Approval


Approval



Classification

Standards	EN ISO 13849-1
B10d Opener (NC)	2.000.000
B10d Normally open contact (NO)	1.000.000
- notice	at 10% I _e and ohmic load
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Product name	AZ 16
Standards	EN 60947-5-1, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	115 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75 mm ²
- Max. Cable section	2.5 mm ²
Mechanical life	20.000.000 operations
higher Latching force (Y/N)	Yes
Latching force	30 N
With ejection force (Y/N)	No
Positive break force	10 N
positive break travel	8 mm
Actuating speed	max. 2 m/s
notice	All indications about the cable section are including the conductor ferrules.

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-30 °C
- Max. environmental temperature	+80 °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
Rated impulse withstand voltage U _{imp}	6 kV
Rated insulation voltage U _i	500 V
Thermal test current I _{the}	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Width of sensor	52 mm
- Height of sensor	90 mm

- Length of sensor

30 mm

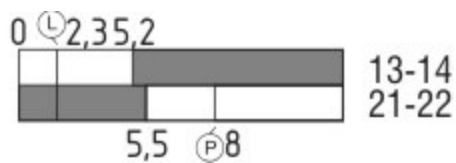
Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

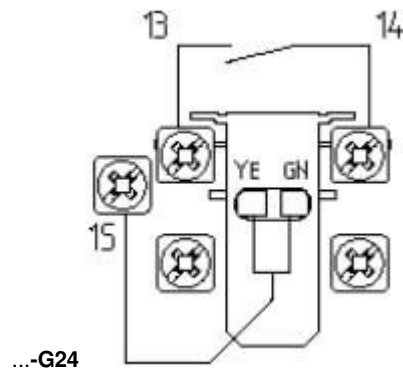
- Contact closed
- Contact open
- Setting range
- Break point
- Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VO** adjustable range of NC contact
- N** after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.
Order example: AZ 16ZVRK-2254

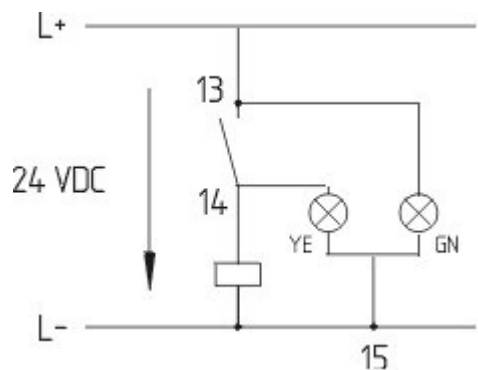
...-2254 Latching force 5 N

...- M20 cable entries M20



...-G24

only available for version with one NO and one NC contact.
Protected against incorrect polarity and voltage spikes.



Ordering code

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

without

02

03

12

1 Normally open contact (NO) / 1 Opener (NC)

2 Opener (NC)

3 Opener (NC)

Normally open contact (NO) 1 / Opener (NC) 2

(2)

without

R

Ejection force

Latching force 30 N

(3)

G24

with LED (*only available for version with one NO and one NC contact.*)

(4)

without

M20

ST

STL

STR

Cable entry M16

Cable entry M20

Connector M12, 4-pole, bottom

Connector M12, 4-pole, left

Connector M12, 4-pole, right

(5)

2254

1762

1637

Latching force 5 N

Front mounting

gold-plated contacts

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

The data and values have been checked thoroughly. Technical modifications and errors excepted.

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