



AZ 415-02/20ZPK

- 2 switches with different actuating functions in one enclosure
- 84,6 mm x 103,6 mm x 46,5 mm
- Metal enclosure
- Long life
- High level of contact reliability with low voltages and currents
- Adjustable ball latch to 400 N
- 2 cable entries M 20 x 1.5
- Spring-loaded actuators

Data

Ordering data

Product type description	AZ 415-02/20ZPK
Article number (order number)	101175181
EAN (European Article Number)	4030661357614
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

Housing material	Aluminium
Housing coating material	painted
Gross weight	510 g

General data - Features

Increased latching force	Yes
Number of auxiliary contacts	2
Number of safety contacts	2
Number of guard doors	1

Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	2,000,000 Operations
B _{10D} Normally open contact (NO)	1,000,000 Operations
Note (B _{10D} Normally open contact (NO))	at 10% I _e and ohmic load

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Latching force, minimum	80 N
Latching force, maximum	400 N
Positive break travel	3.8 mm
Positive break force, minimum	31 N
Actuating speed, maximum	0.2 m/s

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
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Cable section, minimum	2 x 0.75 mm ²
Cable section, maximum	2 x 1.5 mm ²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	46.5 mm
Width of sensor	84.6 mm
Height of sensor	103.6 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +70 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	250 VAC
Rated impulse withstand voltage U_{imp}	4 kV

Electrical data

Thermal test current	6 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	4 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	4 A
Switching element	NO contact, NC contact
Switching principle	Slow action
Material of the contacts, electrical	Silver

Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Ordering code

Product type description:
AZ 415-(1)ZPK-(2)

(1)

02/11	2 NC contacts / 1 NO contact, 1 NC contact
02/02	2 NC contacts / 2 NC contacts
02/20	2 NC contacts / 2 NO contacts
11/11	1 NO contact, 1 NC contact / 1 NO contact 1, NC contact

(2)

1637	Gold-plated contacts
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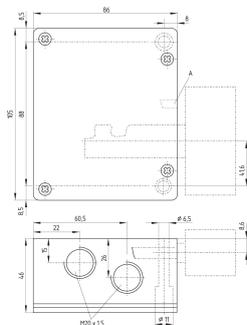
Pictures

Product picture (catalogue individual photo)



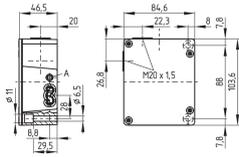
ID: kaz41f16
| 898.2 kB | .jpg | 352.425 x 426.508 mm - 999 x 1209 px - 72 dpi
| 67.2 kB | .png | 74.083 x 89.606 mm - 210 x 254 px - 72 dpi
| 86.3 kB | .jpg | 101.953 x 123.472 mm - 289 x 350 px - 72 dpi

Dimensional drawing basic component



ID: kaz41g01
| 28.7 kB | .cdr |
| 5.4 kB | .png | 73.731 x 98.778 mm - 209 x 280 px - 72 dpi
| 192.0 kB | .jpg | 352.425 x 471.311 mm - 999 x 1336 px - 72 dpi

Dimensional drawing basic component



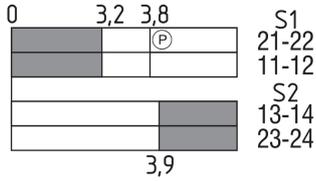
ID: 1az41g03

| 42.7 kB | .cdr |

| 7.7 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi

| 94.8 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

Switch travel diagram



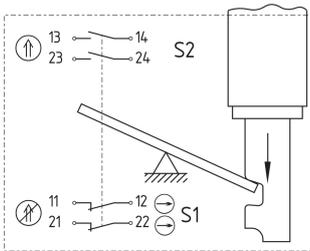
ID: kaz41s08

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| 2.6 kB | .png | 74.083 x 40.569 mm - 210 x 115 px - 72 dpi

| 77.4 kB | .jpg | 352.778 x 192.617 mm - 1000 x 546 px - 72 dpi

Diagram



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| 46.2 kB | .cdr |

| 116.4 kB | .jpg | 352.778 x 289.983 mm - 1000 x 822 px - 72 dpi

| 4.7 kB | .png | 74.083 x 61.031 mm - 210 x 173 px - 72 dpi

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.

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