



## AZ 415-02/02ZPK-M20

- 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 415-02/02ZPK-M20
Article number (order number)	101164609
EAN (European Article Number)	4030661206509
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	595 g

### General data - Features

Increased latching force	Yes
Number of safety contacts	4
Number of guard doors	1

### Safety classification

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

### Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
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### 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
Cable section, minimum	2 x 0.75 mm <sup>2</sup>
Cable section, maximum	2 x 1.5 mm <sup>2</sup>
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	Opener (NC)
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)

<b>02/11</b>	2 NC contacts / 1 NO contact, 1 NC contact
<b>02/02</b>	2 NC contacts / 2 NC contacts
<b>02/20</b>	2 NC contacts / 2 NO contacts
<b>11/11</b>	1 NO contact, 1 NC contact / 1 NO contact 1, NC contact

(2)

<b>1637</b>	Gold-plated contacts
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## Pictures

### Product picture (catalogue individual photo)



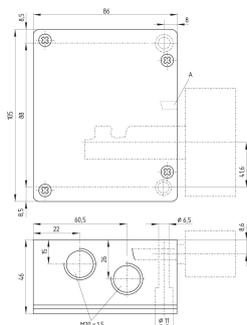
ID: kaz41f16

| 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



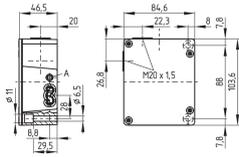
ID: kaz41g01

| 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



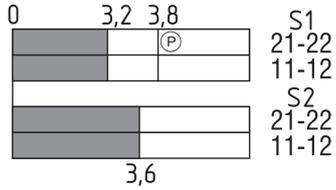
ID: 1az41g03

| 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



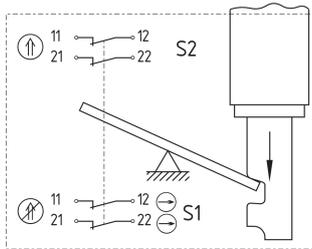
ID: kaz41s07

| 19.9 kB | .cdr |

| 2.1 kB | .png | 74.083 x 41.981 mm - 210 x 119 px - 72 dpi

| 84.4 kB | .jpg | 352.778 x 200.731 mm - 1000 x 569 px - 72 dpi

## Diagram



ID: kaz41k07

| 46.8 kB | .cdr |

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

| 4.6 kB | .png | 74.083 x 61.031 mm - 210 x 173 px - 72 dpi

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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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