



AZ415-11/11ZPK-M20

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

Data

Ordering data

Product type description	AZ 415-11/11ZPK
Article number (order number)	101154000
EAN (European Article Number)	4030661170701
eCl@ss number, Version 9.0	27-27-26-02
eCl@ss number, Version 11.0	27-27-26-02

Approval - Standards

Certificates	BG
	cULus
	CCC
	EAC
	CNCA

General data

Product name	AZ 415
Enclosure material	Aluminium
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	495 g

General data - Features

higher Latching force	Yes
-----------------------	-----

Number of auxiliary contacts	3
Number of safety contacts	1
Number of guard doors	1

Safety appraisal

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

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
B10d Normally open contact (NO)	1,000,000 Operations
Note (B10d 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

Terminal Connector	Screw connection
Cable section, minimum	2 x 0.75 mm ²
Cable section, maximum	2 x 1.5 mm ²
Note (Cable section)	All indications about the cable section are 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	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+70 °C

Ambient conditions - Insulation value

Rated insulation voltage U_i	250 V
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	Creep circuit element

Scope of delivery

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

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

Pictures

Product picture (catalogue individual photo)



ID: kaz41f16

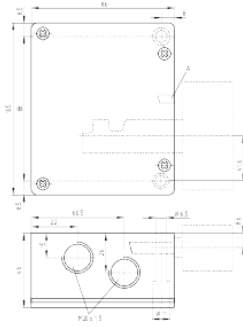
| 67,2 kB | .png | 74.083 x 89.606 mm - 210 x 254

Pixel - 72 dpi

| 898,2 kB | .jpg | 352.425 x 426.508 mm - 999 x 1209

Pixel - 72 dpi

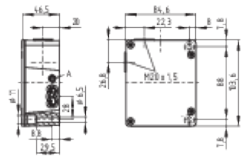
Dimensional drawing basic component



ID: kaz41g01

| 192,0 kB | .jpg | 352.425 x 471.311 mm - 999 x 1336 Pixel - 72 dpi
 | 28,7 kB | .cdr |
 | 5,4 kB | .png | 73.731 x 98.778 mm - 209 x 280 Pixel - 72 dpi

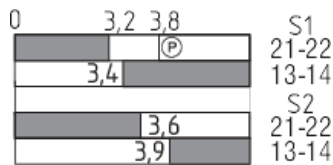
Dimensional drawing basic component



ID: 1az41g03

| 94,8 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi
 | 7,7 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
 | 42,7 kB | .cdr |

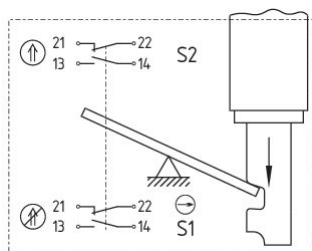
Switch travel diagram



ID: kaz41s05

| 20,1 kB | .cdr |
 | 91,1 kB | .jpg | 352.778 x 176.389 mm - 1000 x 500 Pixel - 72 dpi
 | 2,7 kB | .png | 74.083 x 37.042 mm - 210 x 105 Pixel - 72 dpi

Diagram



ID: kaz41k05

| 120,4 kB | .jpg | 352.778 x 291.394 mm - 1000 x 826 Pixel - 72 dpi
 | 45,4 kB | .cdr |

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

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 26/05/2021 03:22:14