

ZK4256-11Z-M20



- Double-insulated
- Thermoplastic enclosure
- 58 mm x 50,5 mm x 31 mm
- 2 cable entries M 20 x 1.5
- Mounting details to EN 50047
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- Actuator heads can be repositioned by 4 x 90°
- Snap action with constant contact pressure up to switching point

Data

Ordering data

Product type description	ZK4 256-11Z
Article number (order number)	101167215
EAN (European Article Number)	4030661218281
eCl@ss number, Version 9.0	27-27-26-01

Approval - Standards

Certificates	cULus
	cCSAus
	CCC
	EAC

General data

Product name	Z 256 angle roller lever K4
Standards	IEC 60947-5-1
	ISO 13849-1
	BG-GS-ET-15
Housing construction form	Norm construction design
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	85 g

General data - Features

Safety functions	Yes
Number of auxiliary contacts	1
Number of safety contacts	1

Safety appraisal

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

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Angle roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating force, minimum	6 N
Positive break force, minimum	16 N
Actuating speed, minimum	56 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	0.75 mm ²
Cable section, maximum	2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor	94 mm
Length of sensor	31 mm
Width of sensor	58 mm

Ambient conditions

Protection class	IP67
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
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Electrical data

Thermal test current	10 A
Required rated short-circuit current to EN 60947-5-1	1,000 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	4 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	1 A
Switching element	NO contact, NC contact
Switching principle	Snap switch element
Bounce duration, maximum	3 ms
Switching frequency	5,000 /h
Switchover time, maximum	5.5 ms

Ordering code

Product type description:

(1)(2) 2(3)5-(4)Z(5)-(6)-(7)-(8)-(9)

(1)

Z	Snap action
T	Slow action

(2)

S	Plunger S
R	Roller plunger R
4S	Plunger 4S
4R	Roller plunger 4R
1R	Offset roller lever 1R
K	Offset roller lever K
3K	Angle roller lever 3K
4K	Angle roller lever 4K
K4	Angle roller lever K4
1H	Roller lever 1H
7H	Roller lever 7H
10H	Rod lever 10H
12H	Roller lever 12H
14H	Roller lever 14H
AF	Spring rod lever AF
RMS	Brass roller

(3)

- 3** slim design
- 5** large design

(4)

- 02** 2 NC contact
- 11** 1 NO contacts/1 NC contact
- 20** 2 NO contacts, (switches with 2 NO contacts are not suitable for safety applications)

(5)

- H** Slow action with staggered contacts
- UE** Slow action with overlapping contacts

(6)

- without** Cable entry M20
- ID** IDC method of termination
- NPT** Cable entry NPT 1/2"
- ST** M12 connector with A-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
- ST-2310** M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)

(7)

- 2574** Enclosure with L-shaped mounting holes (horizontally or vertically adjustable)

(8)

- 2138** Roller lever 7H for position switches with safety function

(9)

- 1637** Gold-plated contacts

Pictures

Product picture (catalogue individual photo)



ID: k256kf04

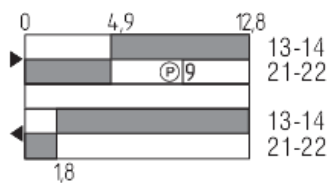
| 87,3 kB | .png | 74.083 x 109.361 mm - 210 x 310

Pixel - 72 dpi

| 444,0 kB | .jpg | 191.206 x 282.575 mm - 542 x 801

Pixel - 72 dpi

Switch travel diagram



ID: kk235s24

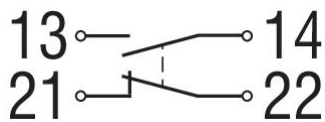
| 69,9 kB | .jpg | 352.778 x 190.147 mm - 1000 x 539

Pixel - 72 dpi

| 2,3 kB | .png | 74.083 x 39.864 mm - 210 x 113 Pixel
- 72 dpi

| 26,0 kB | .cdr |

Diagram

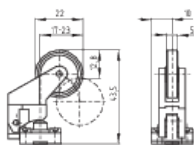


ID: k1o1sk01

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407

Pixel - 72 dpi

Dimensional drawing actuator



ID: 1k235g04

| 27,7 kB | .cdr |

| 8,2 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel
- 72 dpi

| 82,7 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

Pixel - 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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