

Z4K236-11Z-M20



- **Double-insulated**
- **Thermoplastic enclosure**
- **30 mm x 58,5 mm x 30 mm**
- **1 Cable entry 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**
- **Actuation from bottom parallel to the switch, therefore only suitable for small housings.**

Data

Ordering data

Product type description	Z4K 236-11Z
Article number (order number)	101163117
EAN (European Article Number)	4030661202105
eCl@ss number, Version 9.0	27-27-26-01

Certifications

Certificates	cCSAus
	CCC
	EAC

General data

Product name	Z 236 angle roller lever 4K
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
Weight	60 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	44 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	105 mm
Length of sensor	30 mm
Width of sensor	42 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)6-(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
- ST-2310** M12 connector with B-coding

(7)

- 1297** Enclosure with transverse slotted holes

(8)

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

(9)

- 1637** Gold-plated contacts

Documents

Operating instructions and Declaration of conformity

(346,7 kB, 10.05.2019, Revision R)

(156,8 kB, 10.05.2019, Revision S)

EC Declaration of conformity

(565,9 kB, 10.05.2019, Revision A)

UL Certificate

(416,7 kB, 01.08.2019)

CCC certification

(4,0 MB, 10.05.2019, Revision E)

EAC certification

SISTEMA-VDMA library

(134,9 kB, 19.06.2019)

Pictures

Product picture (catalogue individual photo)



ID: k236kf03

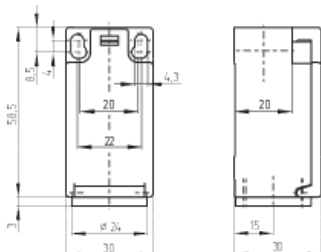
| 106,4 kB | .png | 74.083 x 147.814 mm - 210 x 419
Pixel - 72 dpi

| 319,2 kB | .jpg | 154.517 x 308.681 mm - 438 x 875
Pixel - 72 dpi

| 178,9 kB | .jpg | 112.889 x 225.425 mm - 320 x 639
Pixel - 72 dpi

| 2,6 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 Pixel -
72 dpi

Dimensional drawing basic component



ID: 1-236g01

| 24,6 kB | .cdr |

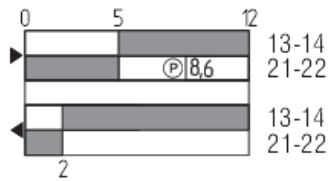
| 115,0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992
Pixel - 72 dpi

| 4,0 kB | .png | 74.083 x 73.378 mm - 210 x 208 Pixel
- 72 dpi

| 29,8 kB | .jpg | 112.889 x 111.831 mm - 320 x 317
Pixel - 72 dpi

| 3,3 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 Pixel -
72 dpi

Switch travel diagram



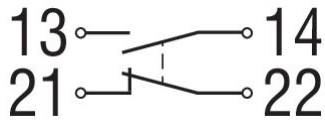
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| 26,3 kB | .cdr |

| 2,4 kB | .png | 74.083 x 39.158 mm - 210 x 111 Pixel
- 72 dpi

| 21,3 kB | .jpg | 112.889 x 59.972 mm - 320 x 170
Pixel - 72 dpi

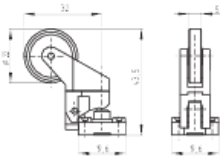
Diagram



ID: k1o1sk01

| 18,4 kB | .jpg | 112.889 x 45.861 mm - 320 x 130
Pixel - 72 dpi

Dimensional drawing actuator



ID: 1k236g03

| 62,9 kB | .cdr |

| 80,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi

| 4,0 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

System components

PS216 angle roller lever K250



103015015 PS216-Z11-K250

- thermoplastic enclosure with foldable latching cover
- Quick connection technology as connection terminals rotated by 45°
- Simple and quick to adjust the control elements by 45°.
- cable entry 1 x M20 x 1,5
- Design to EN 50047
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.

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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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