

ZV7H236-11Z-M20



- **Double-insulated**
- **Thermoplastic enclosure**
- **30 mm x 58,5 mm x 30 mm**
- **1 Cable entry M 20 x 1.5**
- **only for positioning tasks**
- **Mounting details to EN 50047**
- **Wide range of alternative actuators**
- **Lever angle adjustable in 10° steps**
- **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	ZV7H 236-11Z
Article number (order number)	101156069
EAN (European Article Number)	4030661177199
eCl@ss number, Version 9.0	27-27-06-01

Approval - Standards

Certificates	cULus
	cCSAus
	CCC
	EAC

General data

Product name	Z 236 roller lever 7H
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
Lever material	Metal film

Roller material	Plastic
Gross weight	95 g

General data - Features

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	Roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	240 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
Actuating torque, minimum	0.15 Nm

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	158.5 mm
Length of sensor	49 mm
Width of sensor	30 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

Pictures

Product picture (catalogue individual photo)



ID: k236hf02

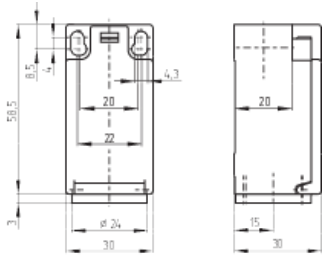
| 196,0 kB | .png | 74.083 x 247.65 mm - 210 x 702

Pixel - 72 dpi

| 278,2 kB | .jpg | 118.886 x 397.933 mm - 337 x 1128

Pixel - 72 dpi

Dimensional drawing basic component



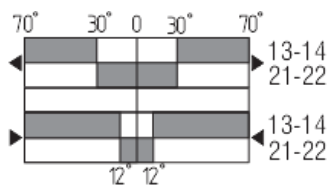
ID: 1-236g01

| 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

Switch travel diagram



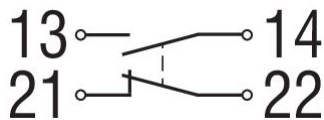
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| 20,1 kB | .cdr |

| 2,4 kB | .png | 74.083 x 40.217 mm - 210 x 114 Pixel
- 72 dpi

| 82,2 kB | .jpg | 352.778 x 191.911 mm - 1000 x 544
Pixel - 72 dpi

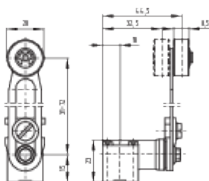
Diagram



ID: k1o1sk01

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407
Pixel - 72 dpi

Dimensional drawing actuator



ID: 1h236g06

| 30,0 kB | .cdr |

| 102,2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693
Pixel - 72 dpi

| 9,7 kB | .png | 74.083 x 51.153 mm - 210 x 145 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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