



ZV1H 236-11Z-M20

- Snap action with constant contact pressure up to switching point
- 1 Cable entry M 20 x 1.5
- Thermoplastic enclosure
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- 30 mm x 58,5 mm x 30 mm
- Lever angle adjustable in 10° steps
- Double-insulated
- Mounting details to EN 50047
- Actuator heads can be repositioned by 4 x 90°

Data

Ordering data

Product type description	ZV1H 236-11Z-M20
Article number (order number)	151153303

Approvals - Standards

Certificates	cULus CCC EAC
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General data

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to EN 50047	A
Enclosure material	Plastic, glass-fibre-reinforced
Material of the contacts, electrical	Silver

Lever material	Plastic
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Gross weight	80 g
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General data - Features

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

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

B _{10D} Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Roller lever
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Roller material	Plastic
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Mechanical life, minimum	20,000,000 Operations
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Actuating speed, minimum	92 mm/min
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Actuating speed, maximum	1 m/s
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Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
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Actuating torque, minimum	0.2 Nm
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Positive break torque	0.2 Nm
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Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
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Cable section, minimum	0.75 mm²
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Cable section, maximum	2.5 mm²
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Note (Cable section)

All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	42.5 mm
Width of sensor	30 mm
Height of sensor	109 mm

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV

Electrical data

Thermal test current	10 A
Required rated short-circuit current	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 action
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 (not for AF/S)

(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
215	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

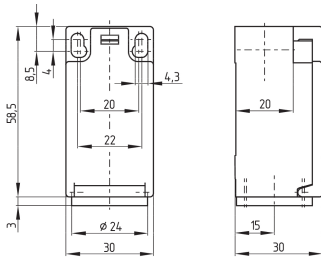
Pictures

Product picture (catalogue individual photo)



ID: k236hf01
| 903.0 kB | .jpg | 352.778 x 863.6 mm - 1000 x 2448 px - 72 dpi
| 103.9 kB | .png | 74.083 x 181.328 mm - 210 x 514 px - 72 dpi

Dimensional drawing basic component

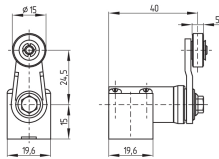


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| 4.0 kB | .png | 74.083 x 73.378 mm - 210 x 208 px - 72 dpi

| 115.0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992 px - 72 dpi

Dimensional drawing actuator



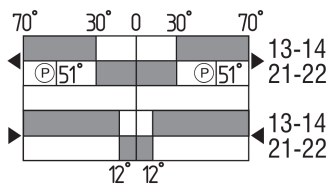
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| 87.7 kB | .cdr |

| 7.8 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 85.2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 px - 72 dpi

Switch travel diagram



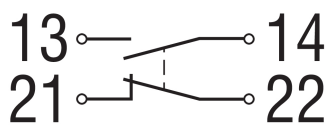
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| 27.0 kB | .cdr |

| 2.9 kB | .png | 74.083 x 40.217 mm - 210 x 114 px - 72 dpi

| 94.9 kB | .jpg | 352.778 x 191.911 mm - 1000 x 544 px - 72 dpi

Diagram



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| 52.2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi

| 2.6 kB | .png | 74.083 x 29.986 mm - 210 x 85 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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