



## ZV7H 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
- Double-insulated
- Mounting details to EN 50047
- Actuator heads can be repositioned by 4 x 90°
- **only for positioning tasks**
- Lever angle adjustable in 10° steps

## Data

### Ordering data

Product type description	ZV7H 236-11Z-M20
Article number (order number)	151156069
EAN (European Article Number)	4030661177199
eCl@ss number, version 12.0	27-27-06-01
eCl@ss number, version 11.0	27-27-06-01
eCl@ss number, version 9.0	27-27-06-01
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

### Approvals - Standards

Certificates	cULus CCC
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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
Housing material	Plastic, glass-fibre-reinforced
Lever material	Metal film
Gross weight	95 g

## General data - Features

Number of auxiliary contacts	1
Number of safety contacts	1

## Safety classification

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

## Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	20,000,000 Operations
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## Mechanical data

Actuating element	Roller lever
Roller material	Plastic
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	1,440 mm/min
Actuating speed, maximum	1 m/s

Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
Actuating torque, minimum	0.2 Nm

### Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.75 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note (Cable section)	All indications including the conductor ferrules.

### Mechanical data - Dimensions

Length of sensor	49 mm
Width of sensor	30 mm
Height of sensor	158.5 mm

### Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature	-30 ... +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	240 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
Material of the contacts, electrical	Silver

## Ordering code

Product type description:

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

(1)

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<b>Z</b>	Snap action
<b>T</b>	Slow action (not for AF/S)

(2)

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<b>S</b>	Plunger S
<b>R</b>	Roller plunger R
<b>4S</b>	Plunger 4S
<b>4R</b>	Roller plunger 4R
<b>1R</b>	Offset roller lever 1R
<b>K</b>	Offset roller lever K
<b>3K</b>	Angle roller lever 3K
<b>4K</b>	Angle roller lever 4K
<b>K4</b>	Angle roller lever K4
<b>1H</b>	Roller lever 1H
<b>7H</b>	Roller lever 7H
<b>10H</b>	Rod lever 10H

<b>12H</b>	Roller lever 12H
<b>14H</b>	Roller lever 14H
<b>AF</b>	Spring rod lever AF
<b>RMS</b>	Brass roller
(3)	
<b>35</b>	slim design
<b>56</b>	large design
(4)	
<b>02</b>	2 NC contact
<b>11</b>	1 NO contacts/1 NC contact
<b>20</b>	2 NO contacts, (switches with 2 NO contacts are not suitable for safety applications)
(5)	
<b>H</b>	Slow action with staggered contacts
<b>UE</b>	Slow action with overlapping contacts
(6)	
<b>without</b>	Cable entry M20
<b>ID</b>	Cut clamps
<b>NPT</b>	Cable entry NPT 1/2"
<b>ST</b>	M12 connector with A-coding
<b>ST-2310</b>	M12 connector with B-coding
(7)	
<b>1297</b>	Enclosure with transverse slotted holes
(8)	
<b>2138</b>	Roller lever 7H for position switches with safety function
(9)	

## Pictures

### Product picture (catalogue individual photo)

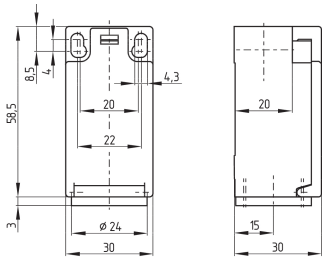


ID: k236hf02

| 217.8 kB | .jpg | 118.886 x 397.933 mm - 337 x 1128 px - 72 dpi

| 190.3 kB | .png | 74.083 x 247.65 mm - 210 x 702 px - 72 dpi

### Dimensional drawing basic component

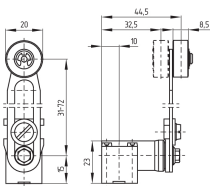


ID: 1-236g01

| 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



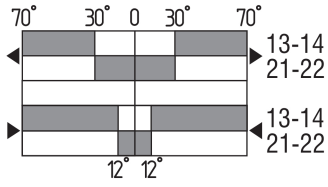
ID: 1h236g06

| 30.0 kB | .cdr |

| 9.7 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 102.2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 px - 72 dpi

### Switch travel diagram



ID: kh235s14  
 | 20.1 kB | .cdr |  
 | 2.4 kB | .png | 74.083 x 40.217 mm - 210 x 114 px - 72 dpi  
 | 82.2 kB | .jpg | 352.778 x 191.911 mm - 1000 x 544 px - 72 dpi

## Diagram



ID: k1o1sk01  
 | 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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