DATASHEET



ZV12H 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°
- Lever angle adjustable in 10° steps

Data

Ordering data

Note (Delivery capacity)	Not available!
Product type description	ZV12H 236-11Z-M20
Article number (order number)	101156131
EAN (European Article Number)	4030661177403
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

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
Housing material	Plastic, glass-fibre-reinforced
Lever material	Metal film
Gross weight	75 g

General data - Features

Safety functions	Yes
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_{10D} Normally-closed contact (NC)	20,000,000 Operations

Mechanical data

Actuating element	Roller lever
Roller material	Plastic
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	687 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
Positive break torque	0.2 Nm

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.75 mm²
Cable section, maximum	2.5 mm²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	46 mm
Width of sensor	30 mm
Height of sensor	108.5 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	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

Maximum switching frequency	5,000 /h
Switchover time, maximum	5.5 ms
Material of the contacts, electrical	Silver

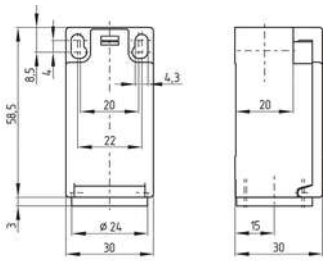
Pictures

Product picture (catalogue individual photo)



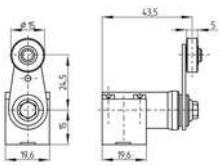
ID: k236hf04
| 1.0 MB | .jpg | 352.778 x 902.758 mm - 1000 x 2559 px - 72 dpi
| 115.0 kB | .png | 74.083 x 189.442 mm - 210 x 537 px - 72 dpi
| 29.9 kB | .jpg | 48.331 x 123.472 mm - 137 x 350 px - 72 dpi

Dimensional drawing basic component



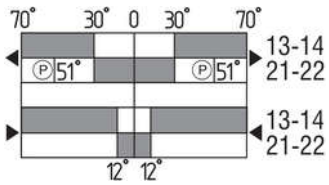
ID: 1-236g01
| 4.0 kB | .png | 74.083 x 73.378 mm - 210 x 208 px - 72 dpi
| 115.0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992 px - 72 dpi

Dimensional drawing actuator



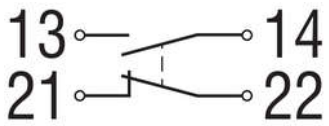
ID: 1h236g04
| 79.1 kB | .cdr |
| 7.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 81.3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Switch travel diagram



ID: kh235s06
| 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



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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