



ZV12H 235-11Z-M20-RMS

- with brass roller
- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 30 mm x 63,5 mm x 30 mm
- Actuator heads can be repositioned by 4 x 90°
- Mounting details to EN 50047
- Lever angle adjustable in 10° steps

Data

Ordering code

Product type description	ZV12H 235-11Z-M20-RMS
Article number (order number)	151172584
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 IEC 60947-5-1
	EN ISO 13849-1
Housing construction form	Norm construction design
Actuator type to EN 50047	A
Housing material	Metal, zinc die-cast

General data

Lever material	Metal film
Gross weight	211 g

General data - Features

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

Safety classification

Standards	EN IEC 60947-5-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B10D Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Roller lever
Roller material	Brass
Mechanical lifetime, minimum	20,000,000 Operations
Actuating speed, minimum	687 mm/min
Actuating speed, maximum	1 m/s
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 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	46 mm
Width of sensor	30 mm
Height of sensor	110.5 mm

Ambient conditions

IP Degree of protection	IP67
	IP65
Ambient temperature	-30 ... +80 °C

Ambient conditions - Insulation values

Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	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	1 NO contact, 1 NC contacts
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)



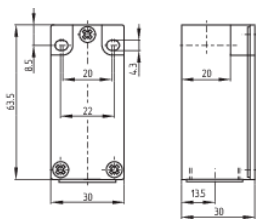
ID: k235hf06

[| 801.32 KB | .jpg | 1000 x 2304 Pixel](#)

[| 27.75 KB | .jpg | 152 x 350 Pixel](#)

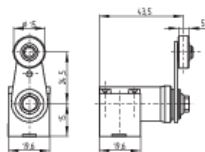
[| 106.17 KB | .png | 210 x 484 Pixel](#)

Dimensional drawing basic component



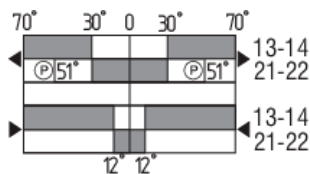
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| 4.03 KB | .png | 210 x 174 Pixel

Dimensional drawing actuator



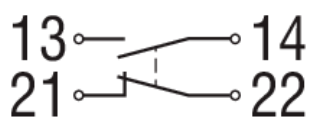
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| 7.67 KB | .png | 210 x 146 Pixel

Switch travel diagram



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| 2.89 KB | .png | 210 x 114 Pixel

Diagram



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| 2.58 KB | .png | 210 x 85 Pixel

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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