



ZR 235-11Z-M20

- Snap action with constant contact pressure up to switching point
- 1 Cable entry M 20 x 1.5
- 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

Data

Ordering code

Product type description	ZR 235-11Z-M20
Article number (order number)	151152265
eCl@ss number, version 12.0	27-27-26-01
eCl@ss number, version 11.0	27-27-26-01
eCl@ss number, version 9.0	27-27-26-01
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	C
Housing material	Metal, zinc die-cast

General data

Gross weight	150 g
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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 plunger
Mechanical lifetime, minimum	20,000,000 Operations
Actuating force, minimum	9 N
Positive break force, minimum	19 N
Actuating speed, minimum	20 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis

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	30 mm
Width of sensor	30 mm
Height of sensor	86 mm

Ambient conditions

IP Degree of protection	IP67
	IP65
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	1 NO contact, 1 NC contacts
Switching principle	Snap action
Bounce duration, maximum	3 ms
Maximum switching frequency	5,000 /h
Switchover time, minimum	5.5 ms
Material of the contacts, electrical	Silver

Pictures

Product picture (catalogue individual photo)



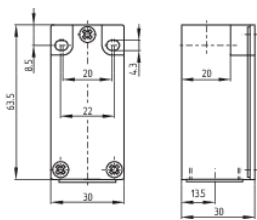
ID: k235rf01

[| 676.84 KB | .jpg | 1000 x 2067 Pixel](#)

[| 25.69 KB | .jpg | 169 x 350 Pixel](#)

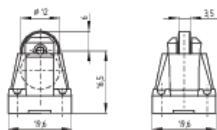
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Dimensional drawing basic component



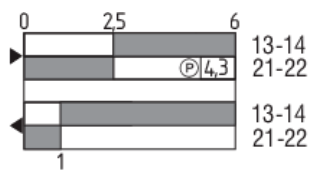
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| 4.03 KB | .png | 210 x 174 Pixel

Dimensional drawing actuator



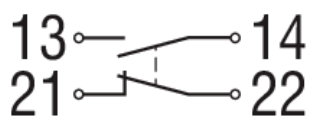
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Switch travel diagram



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| 2.44 KB | .png | 210 x 111 Pixel

Diagram



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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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