DATASHEET



ZR 335-11Z-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
- 40,5 mm x 76 mm x 38 mm
- Actuator heads can be repositioned by 4 x 90°
- Design to EN 50041

Data

Ordering data

Product type description	ZR 335-11Z-M20
Article number (order number)	131154447
EAN (European Article Number)	8905236103841
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

General data

Housing construction form	Norm construction design
Actuator type to EN 50041	C

Housing material	Light alloy die-casting
Housing coating material	painted
Gross weight	210 g

General data - Features

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

Safety classification

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B_{10D} Normally-closed contact (NC)	20,000,000 Operations

Mechanical data

Actuating element	Roller plunger
Mechanical life, minimum	30,000,000 Operations
Actuating force, minimum	12 N
Actuating speed, maximum	0.5 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
Note Bounce duration	Bounce duration in accordance with actuating speed

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 - connector side B

Connector typ	Female connector

Mechanical data - Dimensions

Length of sensor	38 mm
Width of sensor	40.5 mm
Height of sensor	116.6 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	4 A
Switching element	NO contact, NC contact
Switching principle	Snap action
Maximum switching frequency	5,000 /h
Switchover time, maximum	2 ms

Material of the contacts, electrical	Silver

Ordering code

Product type description:
(1)(2) 3(3)-(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
H	Roller lever H
10H	Rod lever 10H
7H	Roller lever 7H
1K	Offset roller lever 1K
3K	Angle roller lever 3K
RMS	Brass roller
4V.	Basic device for roller lever (without actuator)

(3)

3	slim design
215	large design

(4)

11	1 NO contact/1 NC contact
02	2 NC contact
20	2 NO contacts (not suitable for safety applications)
01/01	1 NC contact left / 1 NC contact right
12	1 NO contact/2 NC contacts
03	3 NC contact

(5)

H	Slow action with staggered contacts
UE	Slow action with overlapping contacts
2272	2272 Special roller bolt with collar
1183	with aluminium rod
1699-1	Exterior stainless steel bolts and clamp

(6)

G24	with LED

(7)

without	Cable entry M20
M20	Cable entry M20
NPT	Cable entry NPT 1/2"
ST	M12 connector with A-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
ST-2310	M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)

(8)

2138	Roller lever 7H for position switches with safety function

(9)

1637	Gold-plated contacts

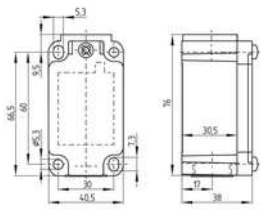
Pictures

Product picture (catalogue individual photo)



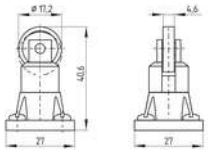
ID: k335rf01
| 727.6 kB | .jpg | 352.778 x 767.292 mm - 1000 x 2175 px - 72 dpi
| 71.3 kB | .png | 74.083 x 160.867 mm - 210 x 456 px - 72 dpi
| 27.7 kB | .jpg | 56.797 x 123.472 mm - 161 x 350 px - 72 dpi

Dimensional drawing basic component



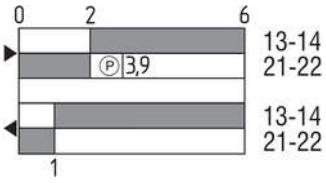
ID: 1-335g01
| 96.7 kB | .cdr |
| 4.5 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 105.8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Dimensional drawing actuator



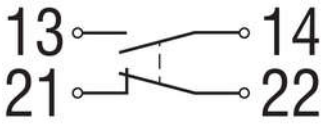
ID: 1r336g01
| 51.1 kB | .cdr |
| 6.6 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi
| 66.1 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

Switch travel diagram



ID: kr335s12
| 25.9 kB | .cdr |
| 2.4 kB | .png | 74.083 x 39.511 mm - 210 x 112 px - 72 dpi
| 67.0 kB | .jpg | 352.778 x 188.031 mm - 1000 x 533 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

Operating principle



ID: 235rz01
| 15.2 kB | .cdr |
| 149.7 kB | .jpg | 352.778 x 799.394 mm - 1000 x 2266 px - 72 dpi
| 2.9 kB | .png | 74.083 x 167.922 mm - 210 x 476 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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