

ZR335-02Z

- **Metal enclosure**
- **Design to EN 50041**
- **40,5 mm x 76 mm x 38 mm**
- **1 Cable entry M 20 x 1.5**
- **Wide range of alternative actuators**
- **Good resistance to oil and petroleum spirit**
- **Actuator heads can be repositioned by 4 x 90°**
- **Snap action with constant contact pressure up to switching point**

Data

Ordering data	
	ZR 335-02Z
	101168109
EAN (European Article Number)	4030661220697
eCl@ss number, Version 9.0	27-27-26-01
Approval - Standards	
	cULus CCC EAC
General data	
Product name	Z 335 roller plunger _R
Housing construction form	Norm construction design
	C
Enclosure material	Aluminium
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	190 g
General data - Features	
Safety functions	Yes
Number of safety contacts	2

Safety appraisal	
	BG-GS-ET-15 ISO 13849-1 EN 60947-5-1
Mission Time	20 Year(s)
Safety appraisal - Safety outputs	
B10d 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	
Terminal Connector	Screw connection
	0.75 mm²
	2.5 mm²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Mechanical data - Dimensions	
Height of sensor	116.6 mm
Length of sensor	38 mm
Width of sensor	40.5 mm
Ambient conditions	
	IP67
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C
Ambient conditions - Insulation value	
Rated impulse withstand voltage	6 kV
Electrical data	
Thermal test current	10 A
Required rated short-circuit current to EN 60947-5-1	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	Opener (NC)
Switching principle	Snap switch element
Switching frequency	5,000 /h
Switchover time, maximum	2 ms

Ordering code

Product type description:

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

(1)

Z Snap action

T Slow action (not available 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

(3)

3 slim design

5 large design

(4)

11 1 NO contacts/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

(6)

G24 with LED

(7)

without	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

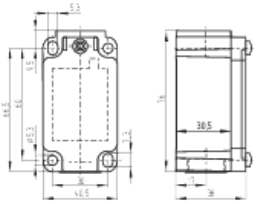
Photo/Product/Catalogue



ID: k335rf01

| 488,3 kB | .jpg | 137.583 x 342.194 mm - 390 x 970 Pixel - 72 dpi
| 167,3 kB | .png | 74.083 x 184.15 mm - 210 x 522 Pixel - 72 dpi

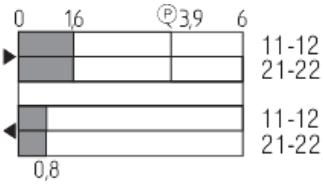
Dimension/Product/Basic



ID: 1-335g01

| 105,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 Pixel - 72 dpi
| 4,5 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi
| 96,7 kB | .cdr |

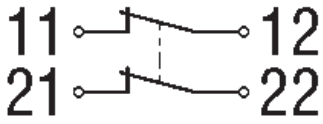
Diagramm/Product/Travel



ID: kr335s11

| 25,6 kB | .cdr |
| 70,3 kB | .jpg | 352.778 x 195.086 mm - 1000 x 553 Pixel - 72 dpi
| 2,2 kB | .png | 74.083 x 40.922 mm - 210 x 116 Pixel - 72 dpi

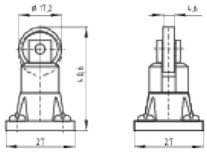
Graphic/Product/Contact



ID: k2o--k01

| 48,8 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 Pixel - 72 dpi
| 1,4 kB | .png | 74.083 x 26.458 mm - 210 x 75 Pixel - 72 dpi

Dimension/Product/Actuator



ID: 1r336g01

| 6,6 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel - 72 dpi
| 66,1 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 Pixel - 72 dpi
| 51,1 kB | .cdr |

Illistration/Product/Function



ID: 235rz01

| 149,7 kB | .jpg | 352.778 x 799.394 mm - 1000 x 2266 Pixel - 72 dpi
| 15,2 kB | .cdr |
| 2,9 kB | .png | 74.083 x 167.922 mm - 210 x 476 Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal
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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