

## ZR332-11Y-M20



- Metal enclosure
- Design to EN 50041
- Large contact break
- 40 mm x 76 mm x 40 mm
- 1 Cable entry M 20 x 1.5
- Gold-plated solid silver contacts
- Wide range of alternative actuators
- Magnetic-storage snap action system
- Good resistance to oil and petroleum spirit
- High repeat accuracy of the switching points
- Actuator heads can be repositioned by 4 x 90°
- Switching system separated from snap action system, providing constant switching point independent of contact wear

### Data

#### Ordering data

Product type description	ZR 332-11Y
Article number (order number)	101150435
EAN (European Article Number)	4030661156491
eCl@ss number, Version 9.0	27-27-26-01

#### Approval - Standards

Certificates	CCC EAC
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#### General data

Product name	332 roller plunger <sub>R</sub>
Standards	EN 60947-5-1 BG-GS-ET-15
Housing construction form	Norm construction design
Actuator type to DIN EN 50041	C
Enclosure material	Metal film
Enclosure coating material	painted

Material of the contacts, electrical	Gold-plated silver
Roller material	Brass
Gross weight	200 g

#### General data - Features

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

#### Safety appraisal

Standards	ISO 13849-1
Mission Time	20 Year(s)

#### Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	20,000,000 Operations
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#### Mechanical data

Actuating element	Roller plunger
Mechanical life, minimum	30,000,000 Operations
Actuating force	31 N
Contact opening	> 2 x 1.25 mm (for complete stroke)
Actuating speed, minimum	10 mm/min
Repeat accuracy of switching points	0.02

#### Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	1.5 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

#### Mechanical data - Dimensions

Height of sensor	116.5 mm
Length of sensor	40 mm
Width of sensor	40 mm

#### Ambient conditions

Protection class	IP65
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

## Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

## Electrical data

Thermal test current 6 A  
Required rated short-circuit current to EN 60947-5-1 1,000 A  
Utilisation category AC-15 230 VAC  
Utilisation category AC-15 2.5 A  
Switching element NO contact, NC contact  
Switching principle Snap switch element  
Bounce duration, maximum 2.5 ms  
Switching frequency 3,000 /h  
Switchover time, minimum 1.5 ms

## Ordering code

Product type description:

Z(1) 332-11Y-(2)-(3)

(1)

**S** Plunger S  
**R** Roller plunger R  
**H** Roller lever H  
**10H** Rod lever 10H  
**7H** Roller lever 7H

(2)

**without** Cable entry M20

**ST** M12 connector with A-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)  
**2310** M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)  
**PG13,5** Cable entry, PG screw fitting 13.5 mm

(3)

**2138** Roller lever 7H for position switches with safety function

## Pictures

## Product picture (catalogue individual photo)

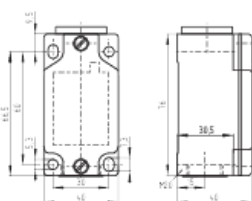


ID: k332rf01

| 141,7 kB | .png | 74.083 x 173.214 mm - 210 x 491  
Pixel - 72 dpi

| 455,2 kB | .jpg | 143.228 x 335.492 mm - 406 x 951  
Pixel - 72 dpi

## Dimensional drawing basic component



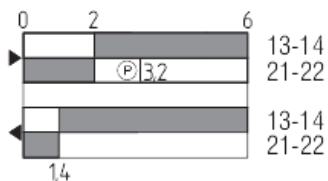
ID: 1-332g01

| 103,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697  
Pixel - 72 dpi

| 4,4 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

| 26,9 kB | .cdr |

## Switch travel diagram



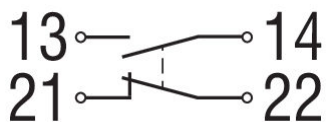
ID: ks332s01

| 69,8 kB | .jpg | 352.778 x 191.911 mm - 1000 x 544  
Pixel - 72 dpi

| 2,3 kB | .png | 74.083 x 40.217 mm - 210 x 114 Pixel  
- 72 dpi

| 22,8 kB | .cdr |

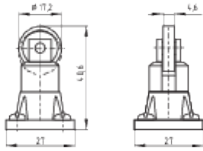
## Diagram



ID: k1o1sk01

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407  
Pixel - 72 dpi

## Dimensional drawing actuator



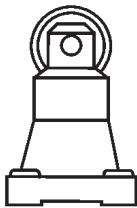
ID: 1r336g01

| 6,6 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel  
- 72 dpi

| 51,1 kB | .cdr |

| 66,1 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703  
Pixel - 72 dpi

## Operating principle



ID: 235rz01

| 2,9 kB | .png | 74.083 x 167.922 mm - 210 x 476  
Pixel - 72 dpi

| 149,7 kB | .jpg | 352.778 x 799.394 mm - 1000 x  
2266 Pixel - 72 dpi

| 15,2 kB | .cdr |

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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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