



## ZR 332-11Y-M20

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

## Data

### Ordering data

EAN (European Article Number)	4030661156491
eCl@ss number, Version 9.0	27-27-26-01
eCl@ss number, Version 11.0	27-27-26-01
ETIM number, version 6.0	EC000030
ETIM number, version 7.0	EC000030

### Approval - Standards

Certificates	CCC
	EAC

### General data

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	EN 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

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

## Ambient conditions

Degree of protection	IP65 to EN 60529 IP67 to EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

## Ambient conditions - Insulation value

Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	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

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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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