



## Z3K 235-02Z

- 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
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.

## Data

### Ordering data

Product type description	Z3K 235-02Z
Article number (order number)	151145014

### Approvals - Standards

Certificates	cULus CCC EAC
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### General data

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Housing construction form	Norm construction design
Enclosure material	Metal, zinc die-cast
Material of the contacts, electrical	Silver
Gross weight	165 g

## General data - Features

Safety functions Yes

Number of safety contacts 2

## Safety classification

Standards EN ISO 13849-1

Mission time 20 Year(s)

## Safety classification - Safety outputs

B<sub>10D</sub> Normally-closed contact (NC) 20,000,000 Operations

## Mechanical data

Actuating element Angle roller lever

Mechanical life, minimum 20,000,000 Operations

Actuating force, minimum 9 N

Positive break force, minimum 19 N

Actuating speed, minimum 27 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<sup>2</sup>

Cable section, maximum 2.5 mm<sup>2</sup>

Note (Cable section) All indications including the conductor ferrules.

## Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	35 mm
Height of sensor	93.5 mm

## Ambient conditions

Degree of protection	IP67
	IP65
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+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 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	1 A
Switching element	Opener (NC)
Switching principle	Snap action
Bounce duration, maximum	3 ms
Switching frequency	5,000 /h
Switchover time, minimum	5.5 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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