

## Switching element

84-8511.2320



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Your product:

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## 84-8511.2320

### Switching element

#### OPERATING-/INDICATION PART

**Illumination colour:** Red

#### ELECTRICAL CHARACTERISTICS

|                                                 |         |           |
|-------------------------------------------------|---------|-----------|
| <b>Switching voltage and switching current:</b> | Voltage | 42 VAC/DC |
|                                                 | Current | 100 mA    |
|                                                 | Power   | max. 2 W  |

**Contacts:** 1 NO

**Forward voltage:**

**Operating voltage:** 12 V DC  $\pm 10\%$

**Operation current:** 10 mA

**Switching rating:** 42 V AC/DC @ 0,1 A

**Electric strength:** 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2

#### MECHANICAL CHARACTERISTICS

**Terminal:** Plug-in terminal, 2.8 x 0.8 mm

**Contact material:** Gold-plated silver

**Switching system:** Short-travel element

**Switching system:** Short-travel snap-action switching system with two independent contact points and tactile operation  
Guarantees reliable switching even of very light loads. Fitted with 1 normally open contact

**Mechanical lifetime:**  $\geq 1$  Mil. cycles of operation

**Operating force:** 4.5 N  $\pm 1$  N (measured at the lens)

**Operating Travel:** ca. 0.5 mm

**Weight:** 0.007 kg

## AMBIENT CONDITION

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>IP Protection:</b>         | IP40 rear side, standard version, IP67 rear side, fully sealed version, with mounted actuator only. |
| <b>Operating temperature:</b> | – 25 °C ... + 70 °C                                                                                 |
| <b>Storage temperature:</b>   | – 40 °C ... + 85 °C                                                                                 |
| <b>Shock resistance:</b>      | Max. 100 m / s <sup>2</sup> , pulse width, 3-axis (sinusoidal EN IEC 60068-2-27)                    |
| <b>Vibration resistance:</b>  | Max. 50 m / s <sup>2</sup> from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)   |

## CERTIFICATE

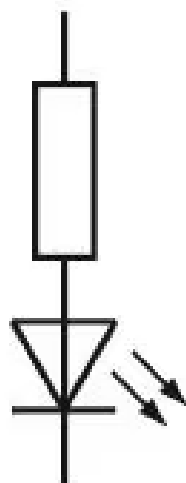
|               |                 |
|---------------|-----------------|
| <b>REACH:</b> | REACH compliant |
| <b>RoHS:</b>  | RoHS compliant  |

## OTHER

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Short Description:</b> | Switching element, Short-travel element, 42 V AC/DC @ 0,1 A, Gold-plated silver, 1 NO, Plug-in terminal, 2.8 x 0.8 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Material:</b>          | Plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hints:</b>             | <p>LED and built-in resistor included</p> <p>Standard version: Cable length 300 mm</p> <p>Other options on request: Customisation of cable and connectors, rear side fully sealed (IP 67)</p> <p>Protection degree (rear side): IP 40, upgrade to IP 67 with plug Part No. 84-900 possible. With applications where strong vibrations occur, the plugs may become loose</p> <p>Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED</p> |
| <b>Wiring diagrams:</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

3

X2+



4

X1-