

# Switching element

84-8511.2320

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## 84-8511.2320 Switching element

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### OPERATING-/INDICATION PART

**Illumination colour:** Red

### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

Voltage	42 VAC/DC
Current	100 mA
Power	max. 2 W

**Contacts:** 1 NO

**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>	LED and built-in resistor included Standard version: Cable length 300 mm Other options on request: Customisation of cable and connectors, rear side fully sealed (IP 67) 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 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
<b>Wiring diagrams:</b>	

3

X2+



4

X1-