

# Switching element

84-8510.0020

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## 84-8510.0020

### Switching element

#### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

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

**Contacts:**

1 NO

**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:**

≥1 Mil. cycles of operation

**Operating force:**

4.5 N ±1 N (measured at the lens)

**Operating Travel:**

ca. 0.5 mm

**Weight:**

0.005 kg

#### AMBIENT CONDITION

**IP Protection:**

IP40 rear side, standard version, IP67 rear side, fully sealed version, with mounted actuator only.

**Operating temperature:**

– 25 °C ... + 70 °C

**Storage temperature:**

– 40 °C ... + 85 °C

**Shock resistance:**

Max. 100 m / s<sup>2</sup>, pulse width, 3-axis (sinusoidal EN IEC 60068-2-27)

**Vibration resistance:**

Max. 50 m / s<sup>2</sup> from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)

**CERTIFICATE****REACH:**

REACH compliant

**RoHS:**

RoHS compliant

**OTHER****Short Description:**

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

**Material:**

Plastic

**Hints:**

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

**Wiring diagrams:**