

# Switching element

92-851.342

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## 92-851.342 Switching element

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### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

Switching voltage	min. 50 m VAC/DC max. 42 VAC/DC
Switching current	min. 10 $\mu$ A AC/DC max. 100 mA AC/DC
Power rating	max. 2 W

**Contacts:**

1 NO

**Switching rating:**

42 V @ 0,1 A

**Electrical lifetime:**

$\geq$ 500 000 cycles of operation at 42VDC, 50mA, according to IEC 60512-5-9c, When attention is paid to the direction of current flow from terminal 3/4 to 1/2 the electrical life can be prolonged.

**Electric strength:**

500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2-4a

### MECHANICAL CHARACTERISTICS

**Terminal:**

PCB terminal

**Contact material:**

Gold

**Switching action:**

Momentary

**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.  
1 normally open contact

**Mechanical lifetime:**

$\geq$ 1 Mil. cycles of operation (switching element under overlay),  $\geq$ 5 Mil. cycles of operation (switching element without overlay)

**Operating force:**

2.7 N  $\pm$ 1 N (measured on switching element)

**Operating Travel:**

ca. 0.5 mm

**Weight:**

0.001 kg

### AMBIENT CONDITION

**IP Protection:** IP40 switching element (fluxproof to DIN 41640 Part 84), IP65 (front side with overlay foil)

**Operating temperature:** - 25 °C ... + 70 °C

**Storage temperature:** - 40 °C ... + 85 °C

**CERTIFICATE**

**Conformities:** CE, UKCA, 2011 / 65 / EC (RoHS)

**REACH:** REACH compliant

**RoHS:** RoHS compliant

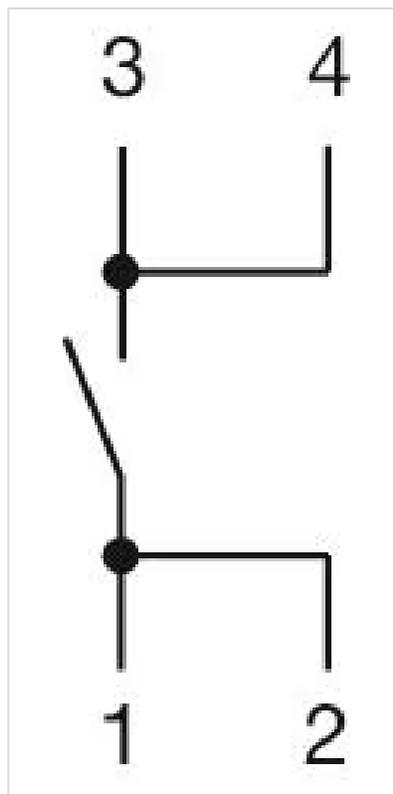
**OTHER**

**Short Description:** Switching element, Short-travel element, 42 V @ 0,1 A, Gold, 1 NO, PCB terminal

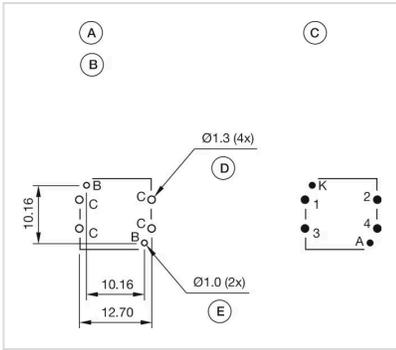
**Material:** Plastic

**Hints:** The customer has to decide what series resistor shall be used to the LED LED and mounting flange to be ordered separately

**Wiring diagrams:**



**Component layouts:**



- A = Switching element with illumination
- B = Single LED
- C = Drilling plan (component side)
- D = Hole for switching element, pad max. Ø 2.5 mm
- E = Hole for LED

**Dimension drawings:**

