

# Switching element

92-851.342

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## 92-851.342

### Switching element

#### 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

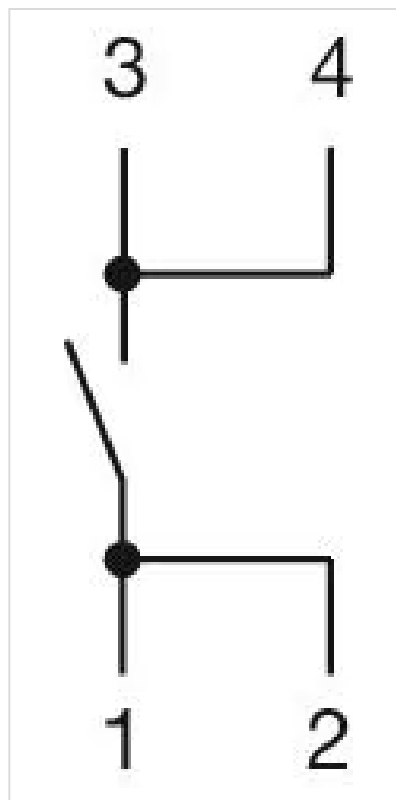
<b>IP Protection:</b>	IP40 switching element (fluxproof to DIN 41640 Part 84), IP65 (front side with overlay foil)
<b>Operating temperature:</b>	– 25 °C ... + 70 °C
<b>Storage temperature:</b>	– 40 °C ... + 85 °C

## CERTIFICATE

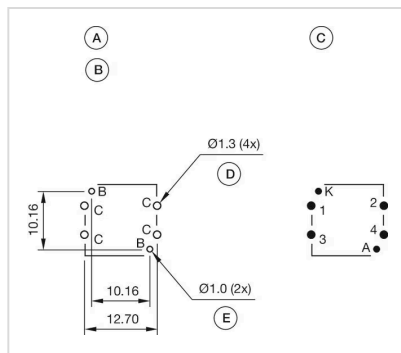
<b>Conformities:</b>	CE, UKCA, 2011 / 65 / EC (RoHS)
<b>REACH:</b>	REACH compliant
<b>RoHS:</b>	RoHS compliant

## OTHER

<b>Short Description:</b>	Switching element, Short-travel element, 42 V @ 0,1 A, Gold, 1 NO, PCB terminal
<b>Material:</b>	Plastic
<b>Hints:</b>	The customer has to decide what series resistor shall be used to the LED LED and mounting flange to be ordered separately
<b>Wiring diagrams:</b>	



**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:

