

# Switching element

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Mouser



92-851.342



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## 92-851.342

### Switching element

#### ELECTRICAL CHARACTERISTICS

<b>Switching voltage and switching current:</b>	Switching voltage Switching current Power rating	min. 50 m VAC/DC max. 42 VAC/DC min. 10 $\mu$ A AC/DC max. 100 mA AC/DC max. 2 W
<b>Contacts:</b>	1 NO	
<b>Switching rating:</b>	42 V @ 0,1 A	
<b>Electrical lifetime:</b>	$\geq$ 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.	
<b>Electric strength:</b>	500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2-4a	

#### MECHANICAL CHARACTERISTICS

<b>Terminal:</b>	PCB terminal
<b>Contact material:</b>	Gold
<b>Switching action:</b>	Momentary
<b>Switching system:</b>	Short-travel element
<b>Switching system:</b>	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
<b>Mechanical lifetime:</b>	$\geq$ 1 Mil. cycles of operation (switching element under overlay), $\geq$ 5 Mil. cycles of operation (switching element without overlay)
<b>Operating force:</b>	2.7 N $\pm$ 1 N (measured on switching element)
<b>Operating Travel:</b>	ca. 0.5 mm
<b>Weight:</b>	0.001 kg

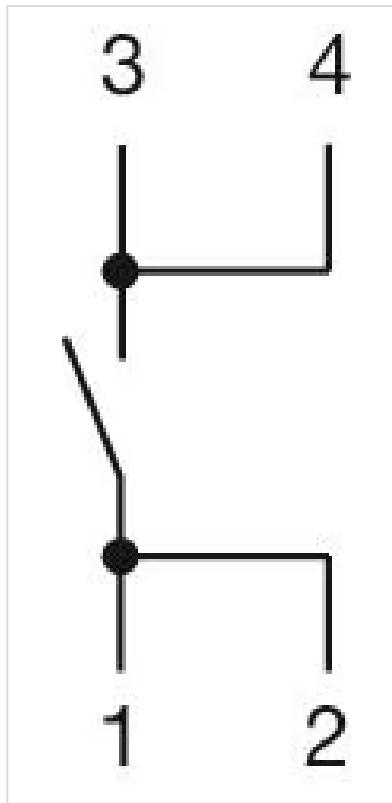
#### AMBIENT CONDITION

<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

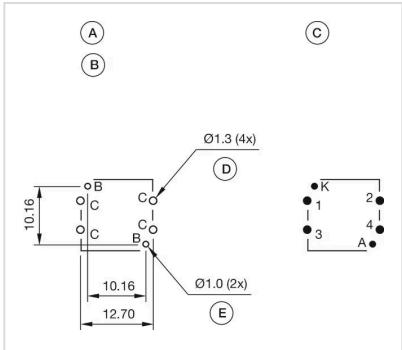
<b>Conformities:</b>	CE, UKCA, 2011 / 65 / EC (RoHS)
<b>REACH:</b>	REACH compliant
<b>RoHS:</b>	RoHS compliant

## 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:**

