Your Expert Partner for **Human Machine Interfaces**

# Switching element

92-851.342

https://www.eao.com/component/92-851.342/en/s...

Your product:

# 92-851.342
# Switching element

## ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

| | |
|---|---|
| Switching voltage | min. 50 m VAC/DC<br>max. 42 VAC/DC |
| Switching current | min. 10 µA AC/DC<br>max. 100 mA AC/DC |
| Power rating | max. 2 W |

**Contacts:** 1 NO

**Switching rating:** 42 V @ 0,1 A

**Electrical lifetime:** ≥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:** ≥1 Mil. cycles of operation (switching element under overlay), ≥5 Mil. cycles of operation (switching element without overlay)

**Operating force:** 2.7 N ±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 |

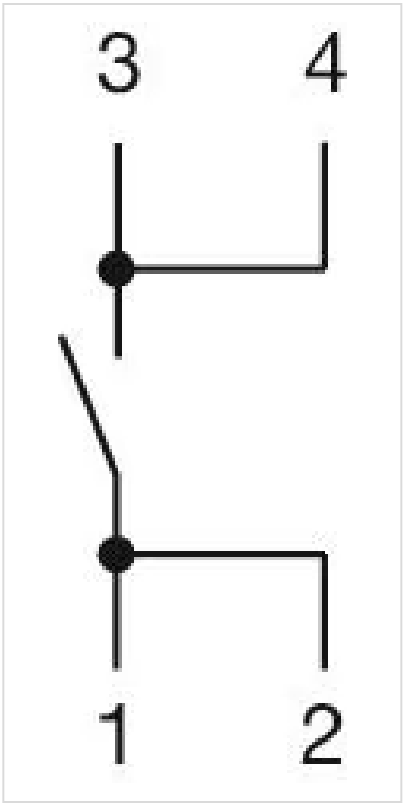
## CERTIFICATE

| | |
|---|---|
| **Conformities:** | CE, UKCA, 2011 / 65 / EC (RoHS) |
| **REACH:** | REACH compliant |
| **RoHS:** | RoHS compliant |

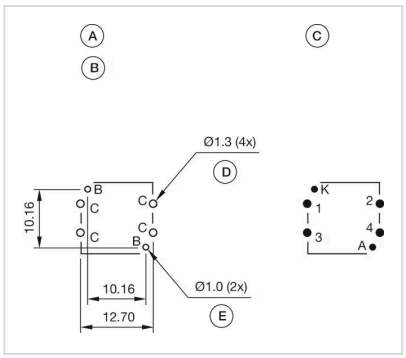
## OTHER

| | |
|---|---|
| **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<br>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:**