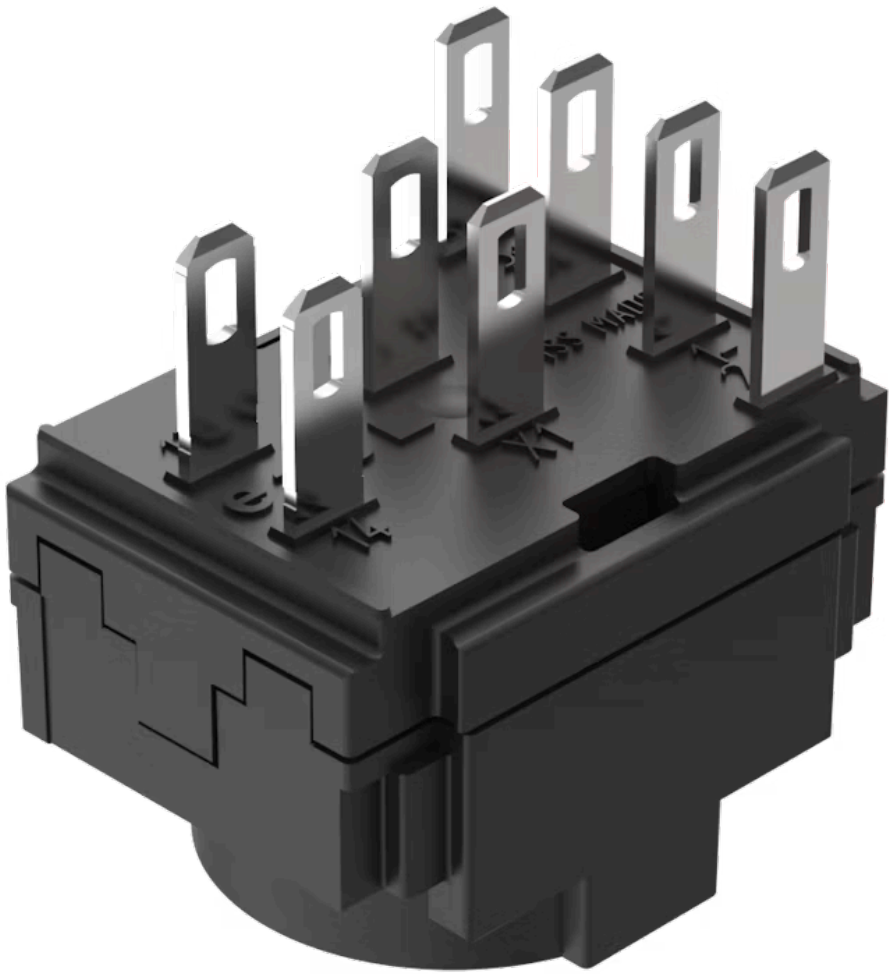
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# Switching element

61-8490.12



https://www.eao.com/component/61-8490.12/en/s...

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# 61-8490.12
# Switching element

## ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

Switch rating AC with silver contact or silver contact with gold plating
Service category AC-15
according to EN IEC 60947-5-1

| | |
|---|---|
| Voltage | 125 VAC |
| Current | 2.5 A |

Switch rating DC with silver contact or silver contact with gold plating
Service category DC-13
according to EN IEC 60947-5-1

| | |
|---|---|
| Voltage | 250 VDC |
| Current | 0.15 A |

**Contacts:** 1 NC / 2 NO

**Forward voltage:**

**Rated Operational Voltage Ue:** 250 VAC/DC according to EN IEC 60947-1

**Rated impulse withstand voltage Uimp:** 4 kV, according to EN/IEC 60947-5-1

**Rated insulation voltage Ui:** 320 VAC, according to EN / IEC 60947-5-1

**Recommended minimum operational data:**

| | |
|---|---|
| Voltage | 20 VAC/DC |
| Current | 100 mA |

**Switching rating:** 150 V AC/DC @ 5 A

**Electrical lifetime:** ≥50 000 cycles of operation at 250VAC, 2A, cosφ 0.95,

**Electric strength:** 2500 VAC, 50 Hz, 1 minute, as per DIN / IEC 60512-2 between all terminals and earth

**Overvoltage category:** III, according to EN / IEC 60947-5-1

**Pollution degree:** 2, according to EN IEC 60947-1

**Protection class:** II, according to EN / IEC 61058-1

**Standards:** The switches comply with the “Standards for low-voltage switching devices” EN IEC 61058-1, EN IEC 60947-5-1

**Thermal current Ith:** 5 A

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## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| **Terminal:** | Plug-in terminal, 2.8 x 0.5 mm |
| **Contact material:** | Silver |
| **Switching system:** | Snap-action switching element |
| **Switching system:** | Self-cleaning, double-break snap-action switching system with contact opening width 2mm x 0.5mm (switch with small contact opening width as per EN IEC 61058-1).<br>The switching elements are optionally equipped with the following switching functions: One to three normally open (NO) or normally closed (NC), or any combination of NO and NC plus connections for T1 3/4 LED or lamp.<br>The number of switching elements cannot exceed three. The switching elements provided for the 3-position switch actua tors are equipped with max. 2 NC or 2 NO or any combination. The number of switching elements cannot exceed two. |
| **Switching positions:** | 2 positions |
| **Wire cross section:** | 1 wire flexible: 0.5 ... 0.75 $mm^2$<br>1 wire super flexible: 0.5 $mm^2$<br>1 wire rigid: 0.5 ... 1.5 $mm^2$<br>2 wires rigid: 0.75 $mm^2$<br>2 wires flexible: 0.5 $mm^2$ |
| **Weight:** | 0.006 kg |

## AMBIENT CONDITION

| | |
|---|---|
| **Operating temperature:** | – 25 °C ... + 55 °C |
| **Storage temperature:** | – 40 °C ... + 85 °C |
| **Shock resistance:** | Max. 100 m / $s^2$, pulse width, 3-axis (sinusoidal EN IEC 60068-2-27) |
| **Vibration resistance:** | Max. 100 m / $s^2$ from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6) |
| **Climate resistance:** | Damp heat, cyclic: 96 hours, + 25 °C/97 %, + 55 °C/93 % relative humidity, as per EN IEC 60068-2-30<br>Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78<br>Rapid change of temperature: 100 cycles, – 40 °C ... + 80 °C, as per EN / IEC 60068-2-14 |

## CERTIFICATE

| | |
|---|---|
| **Approbations:** | CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL, VDE |
| **Conformities:** | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD) |
| **REACH:** | REACH compliant |
| **RoHS:** | RoHS compliant |

## OTHER

**Short Description:**

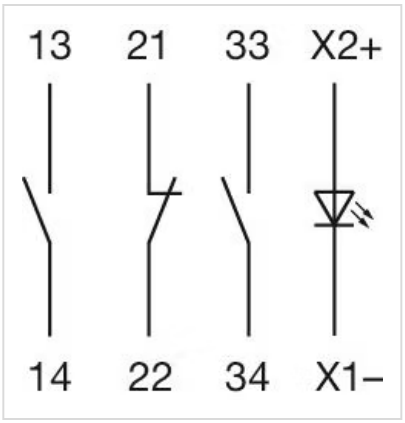
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Switching element, Snap-action switching element, 150 V AC/DC @ 5 A, Silver, 1 NC / 2 NO, Plug-in terminal, 2.8 x 0.5 mm

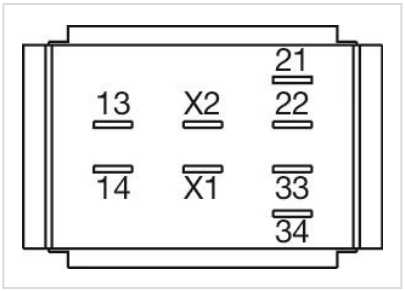
**Material:** Plastic, according to UL 94 V0

**Hints:** With lamp terminal

**Wiring diagrams:**




**Component layouts:**




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