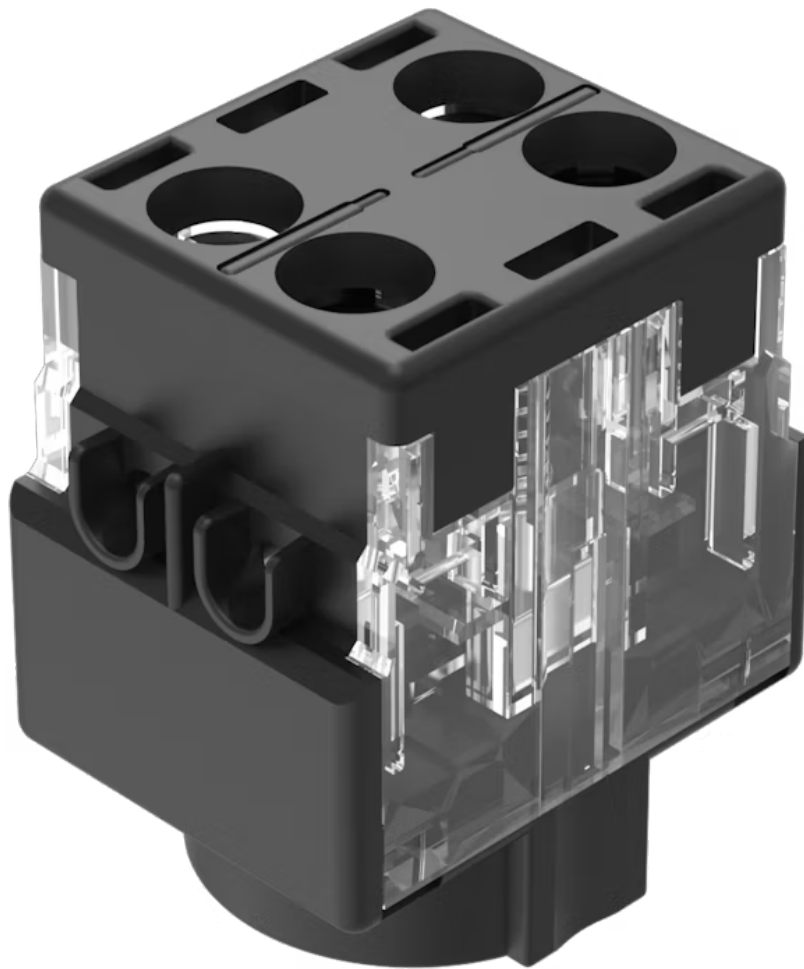


# Switching element

61-8610.11



<https://www.eao.com/component/61-8610.11/en/s...>

Your product:



# 61-8610.11

## Switching element

### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

|                                      |         |         |
|--------------------------------------|---------|---------|
| Switch rating AC with silver contact |         |         |
| Service category AC-15               |         |         |
| according to EN IEC 60947-5-1        |         |         |
| Voltage                              | 125 VAC | 250 VAC |
| Current                              | 3 A     | 2 A     |
| Switch rating DC with silver contact |         |         |
| Service category DC-13               |         |         |
| according to EN IEC 60947-5-1        |         |         |
| Voltage                              | 250 VDC |         |
| Current                              | 0.2 A   |         |

|                                              |                                                                                                             |         |           |         |        |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------|-----------|---------|--------|
| <b>Contacts:</b>                             | 1 NO                                                                                                        |         |           |         |        |
| <b>Contact resistance:</b>                   | New state $\leq 50\text{ m}\Omega$ , as per DIN/IEC 60512-2-4, measured at 100 mA, 10 V                     |         |           |         |        |
| <b>Rated Operational Voltage Ue:</b>         | 250 VAC/DC according to EN IEC 60947-1                                                                      |         |           |         |        |
| <b>Rated impulse withstand voltage Uimp:</b> | 4 kV, according to EN/IEC 60947-5-1                                                                         |         |           |         |        |
| <b>Rated insulation voltage Ui:</b>          | 320 VAC, according to EN / IEC 60947-5-1                                                                    |         |           |         |        |
| <b>Recommended minimum operational data:</b> | <table><tr><td>Voltage</td><td>20 VAC/DC</td></tr><tr><td>Current</td><td>100 mA</td></tr></table>          | Voltage | 20 VAC/DC | Current | 100 mA |
| Voltage                                      | 20 VAC/DC                                                                                                   |         |           |         |        |
| Current                                      | 100 mA                                                                                                      |         |           |         |        |
| <b>Switching rating:</b>                     | 250 V AC/DC @ 5 A                                                                                           |         |           |         |        |
| <b>Electrical lifetime:</b>                  | $\geq 50\,000$ cycles of operation at 250VAC, 2A, $\cos\phi\ 0.95$ ,                                        |         |           |         |        |
| <b>Electric strength:</b>                    | 4000 VAC, 50 Hz, 1 minute, as per DIN / IEC 60512-2 between all terminals and earth                         |         |           |         |        |
| <b>Overvoltage category:</b>                 | III, according to EN / IEC 60947-5-1                                                                        |         |           |         |        |
| <b>Pollution degree:</b>                     | 2, according to EN IEC 60947-1                                                                              |         |           |         |        |
| <b>Protection class:</b>                     | II, according to EN / IEC 61058-1                                                                           |         |           |         |        |
| <b>Standards:</b>                            | The switches comply with the "Standards for low-voltage switching devices" EN IEC 61058-1, EN IEC 60947-5-1 |         |           |         |        |
| <b>Thermal current Ith:</b>                  | 5 A, according to EN / IEC 60947-5-1                                                                        |         |           |         |        |

### MECHANICAL CHARACTERISTICS

|                             |                                                                                                                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>            | Screw terminal                                                                                                                                                                                                                                                          |
| <b>Contact material:</b>    | Silver                                                                                                                                                                                                                                                                  |
| <b>Switching system:</b>    | Slow-make switching element                                                                                                                                                                                                                                             |
| <b>Switching system:</b>    | Double-break slow-make system, contact opening width 2 x 1.5 mm, with 2 x 2 contact points per switching element.<br>NC-contact elements in the slow-make elements fulfill requirements of switches with forced opening as per EN / IEC 60947-5-12.17.                  |
| <b>Switching positions:</b> | 2 positions                                                                                                                                                                                                                                                             |
| <b>Wire cross section:</b>  | 1 wire flexible: 0.5 ... 0.75 mm <sup>2</sup><br>1 wire super flexible: 0.5 mm <sup>2</sup><br>1 wire rigid: 0.5 ... 1.5 mm <sup>2</sup><br>2 wires super flexible: 0.5 mm <sup>2</sup><br>2 wires flexible: 0.5 mm <sup>2</sup><br>2 wires rigid: 0.75 mm <sup>2</sup> |
| <b>Weight:</b>              | 0.016 kg                                                                                                                                                                                                                                                                |

## AMBIENT CONDITION

|                               |                                                                                                                                                                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IP Protection:</b>         | IP40                                                                                                                                                                                                                                                                                          |
| <b>Operating temperature:</b> | – 25 °C ... + 55 °C                                                                                                                                                                                                                                                                           |
| <b>Storage temperature:</b>   | – 40 °C ... + 85 °C                                                                                                                                                                                                                                                                           |
| <b>Shock resistance:</b>      | Max. 100 m / s <sup>2</sup> , pulse width, 3-axis (sinusoidal EN IEC 60068-2-27)                                                                                                                                                                                                              |
| <b>Vibration resistance:</b>  | Max. 100 m / s <sup>2</sup> from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)                                                                                                                                                                                                              |
| <b>Climate resistance:</b>    | 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

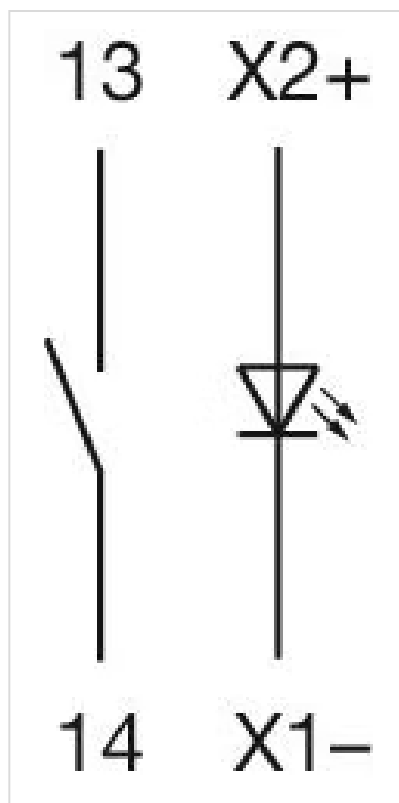
|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Approbations:</b> | CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL, VDE |
| <b>Conformities:</b> | CE, UKCA, 2011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

## OTHER

|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| <b>Short Description:</b>  | Switching element, Slow-make switching element, 250 V AC/DC @ 5 A, Silver, 1 NO, Screw terminal |
| <b>Material:</b>           | Plastic, according to UL 94 V0                                                                  |
| <b>Product attributes:</b> |                                                                                                 |

With lamp terminal

**Wiring diagrams:**



**Component layouts:**

