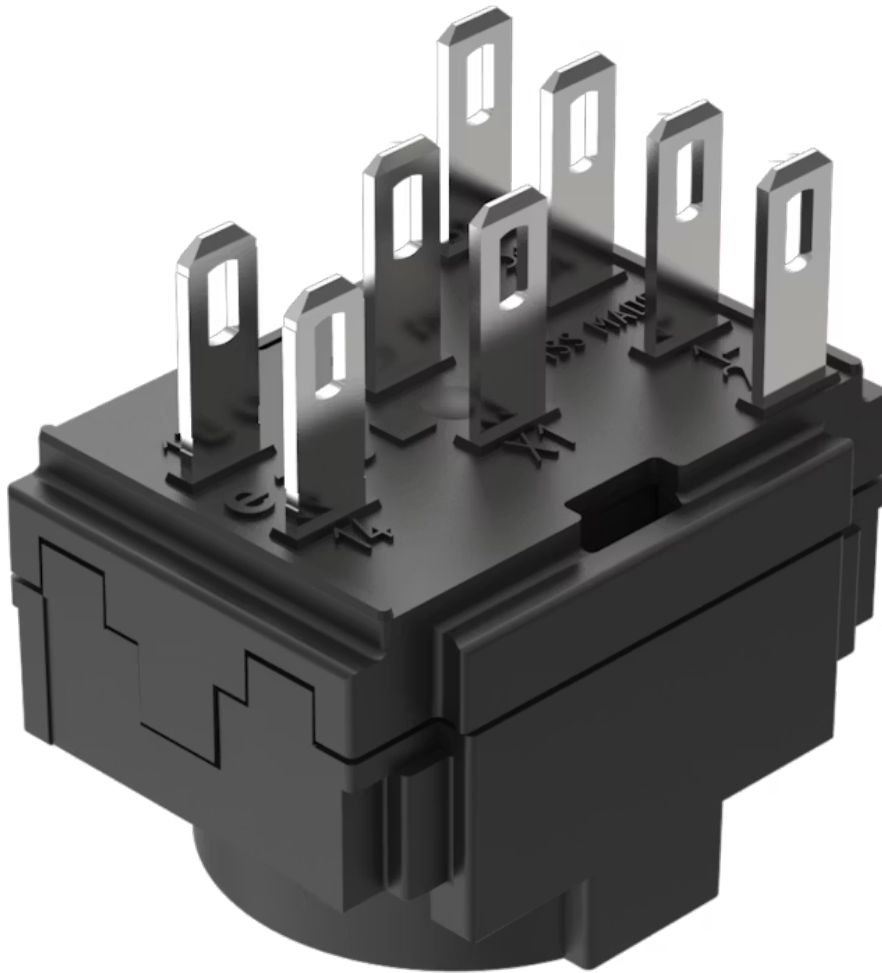


Switching element

61-8490.12



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

Your product:



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				
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:	<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				
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				

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). 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. The number of switching elements cannot exceed three. The switching elements provided for the 3-position switch actuators 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 mm² 1 wire super flexible: 0.5 mm² 1 wire rigid: 0.5 ... 1.5 mm² 2 wires rigid: 0.75 mm² 2 wires flexible: 0.5 mm²
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 Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78 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

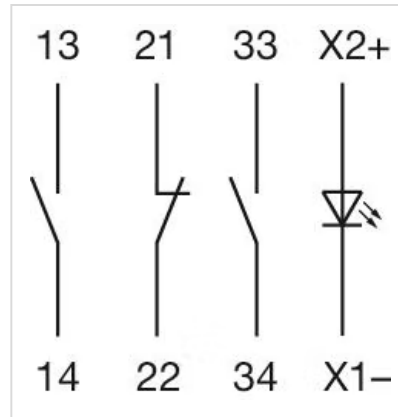
OTHER

Short Description:	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:

