Your Expert Partner for **Human Machine Interfaces**

Switching element

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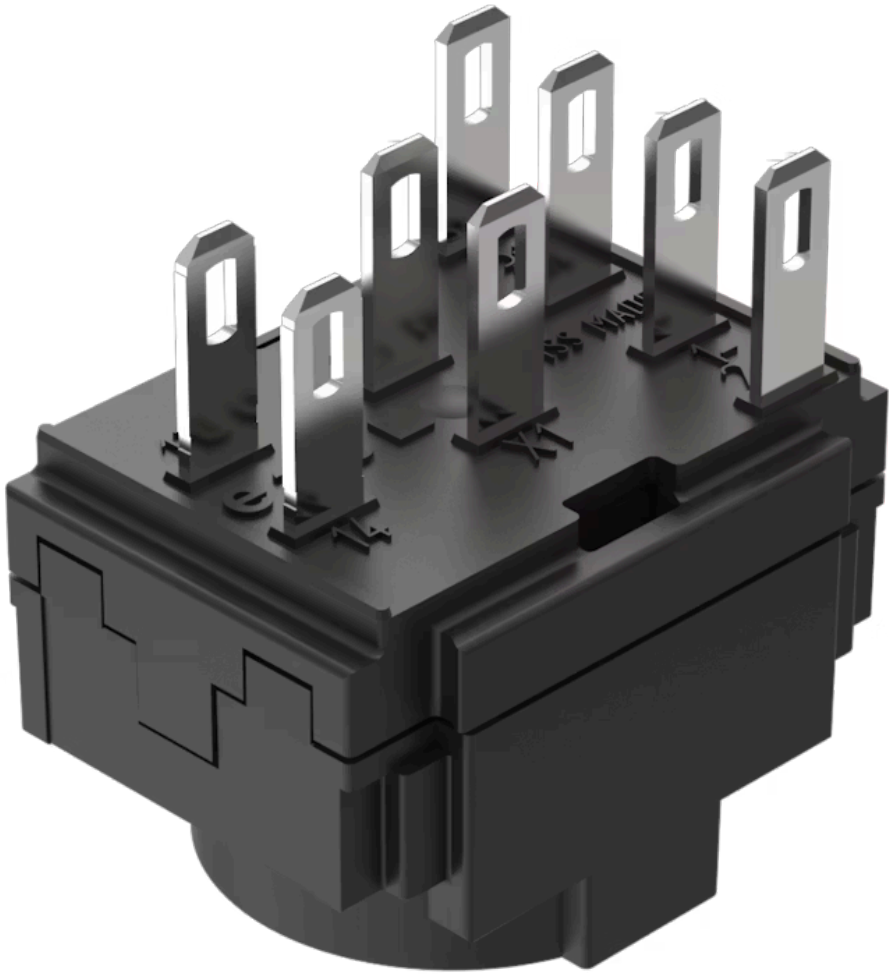
61-8490.12



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Your product:



61-8490.12
Switching element

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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:

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 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 1 wire super flexible: 0.5 mm^2 1 wire rigid: 0.5 ... 1.5 mm^2 2 wires rigid: 0.75 mm^2 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 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

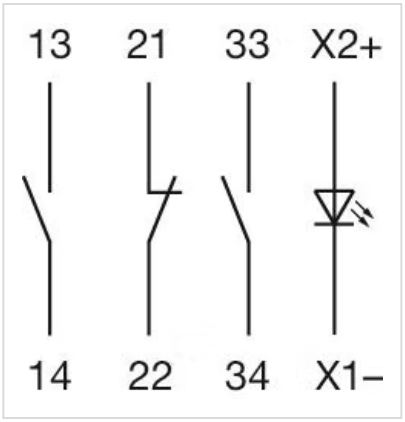
Approbations:	CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL, VDE
Conformities:	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)
REACH:	REACH compliant
RoHS:	RoHS compliant

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:

