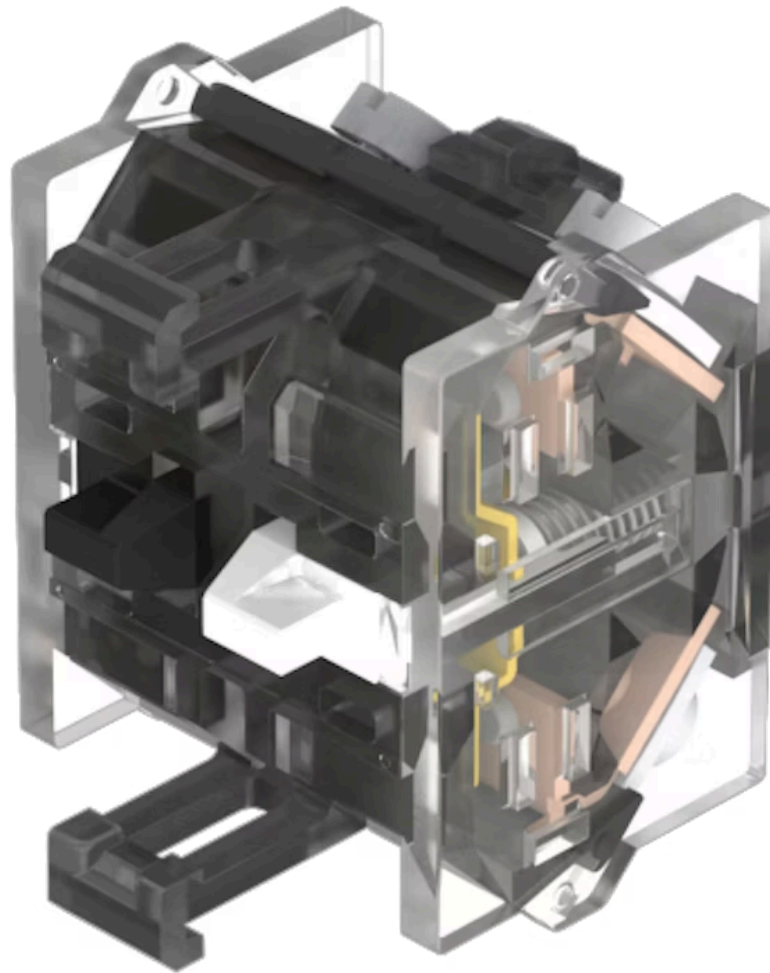


# Switching element - discontinued item

704.910.5

Distribution by  
Newark



<https://newark.eao.com/component/704.910.5/en...>

Your product:



## 704.910.5 Switching element - discontinued item

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### PRODUCT RANGE

**Product Status:**

Phase-out

**successor product:**

<https://www.eao.com/c/704.910.5-1>

### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

|                             |                   |       |
|-----------------------------|-------------------|-------|
| as per DIN EN IEC 60947-5-1 |                   |       |
| voltage                     | DC13              | AC15  |
| 24 V                        | 4.0 A             | 8.0 A |
| 60 V                        | 1.5 A             | 8.0 A |
| 110 V                       | 1.0 A             |       |
| 120 V                       |                   | 8.0 A |
| 230 V                       | 0.4 A             | 7.0 A |
| 400 V                       | 0.2 A             | 5.0 A |
| 500 V                       | 0.15 A            | 4.0 A |
| as per UL 60947-5-1         |                   |       |
| voltage                     | power             |       |
| 24 VDC                      | 4.0 A, Pilot duty |       |
| 60 VDC                      | 1.5 A, Pilot duty |       |
| 120 VDC                     | 1.0 A, Pilot duty |       |
| 240 VDC                     | 0.4 A, Pilot duty |       |
| 415 VDC                     | 0.2 A, Pilot duty |       |
| 480 VDC                     | 0.14A, Pilot duty |       |
| 120 VAC                     | 8.0 A, Pilot duty |       |
| 240 VAC                     | 7.0 A, Pilot duty |       |
| 415 VAC                     | 5.0 A, Pilot duty |       |
| 480 VAC                     | 4.0 A, Pilot duty |       |

For voltages greater than  $U_e = 400$  V, the grid dimensions must not be less than 35 mm x 50 mm.

**Contacts:**

1 NC / 1 NO

**Rated impulse withstand voltage  $U_{imp}$ :**

4 kV, according to EN/IEC 60947-5-1

**Rated insulation voltage  $U_i$ :**

500 V

**Recommended minimum operational data:**

|                      |        |         |
|----------------------|--------|---------|
| Gold-silver contacts |        |         |
| Voltage              | 24 VDC | 110 VDC |
| Current              | 5 mA   | 2 mA    |
| Hard silver contacts |        |         |
| Voltage              | 24 VDC | 110 VDC |
| Current              | 50 mA  | 10 mA   |

**Switching rating:**

500 V AC @ 10 A

|                                        |                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical lifetime:</b>            | 50 000 cycles of operation                                                                                               |
| <b>Pollution degree:</b>               | 3                                                                                                                        |
| <b>Standards:</b>                      | The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1                              |
| <b>Thermal current I<sub>th</sub>:</b> | 10 A Max. permissible current for continuous operation and ambient temperatures not exceeding the specified max. values. |

## MECHANICAL CHARACTERISTICS

|                            |                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>           | Screw terminal                                                                                                                                                                                                                                                                      |
| <b>Contact material:</b>   | Silver                                                                                                                                                                                                                                                                              |
| <b>Switching system:</b>   | Slow-make switching element                                                                                                                                                                                                                                                         |
| <b>Switching system:</b>   | The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening. Slow-make contacts with forced action are ideal for high switch ratings. |
| <b>Operating force:</b>    | 1 Normally closed approx. 2 N, 1 Normally open approx. 3 N                                                                                                                                                                                                                          |
| <b>Tightening torque:</b>  | Screw terminal 0.5 Nm                                                                                                                                                                                                                                                               |
| <b>Wire cross section:</b> | Max. wire cross-section 2 mm x 2.5 mm <sup>2</sup><br>Skinning wire 10 mm<br>Max. wire cross-section of stranded cable 2 x 1.5 mm <sup>2</sup><br>use stranded wires only with wire end ferrules of 10 mm length<br>Only one polarity is allowed on each side when wiring.          |
| <b>Weight:</b>             | 0.027 kg                                                                                                                                                                                                                                                                            |

## AMBIENT CONDITION

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>IP Protection:</b>         | IP20                                                                                                         |
| <b>Operating temperature:</b> | - 40 °C ... + 55 °C                                                                                          |
| <b>Storage temperature:</b>   | - 40 °C ... + 85 °C                                                                                          |
| <b>Shock resistance:</b>      | 300 m/s <sup>2</sup> , pulse width 11 ms, 3-axis, (single impacts, semi-sinusoidal as per DIN EN 60068-2-27) |
| <b>Vibration resistance:</b>  | 100 m/s <sup>2</sup> at 10 Hz ... 500 Hz, amplitude 0.75 mm, (sinusoidal according to DIN EN 60068-2-6)      |
| <b>Climate resistance:</b>    | Relative humidity, max. 95%, non-condensing                                                                  |

## CERTIFICATE

|                      |                                               |
|----------------------|-----------------------------------------------|
| <b>Approbations:</b> | CB (IEC 60947-5-1), cULus, DNV, EAC, NFF, VDE |
| <b>Conformities:</b> | CE, CCC, UKCA                                 |
| <b>REACH:</b>        | REACH compliant                               |

**RoHS:**

RoHS compliant

**OTHER**

**Short Description:**

Switching element - discontinued item, Slow-make switching element, 500 V AC @ 10 A, Silver, 1 NC / 1 NO, Screw terminal

**Hints:**

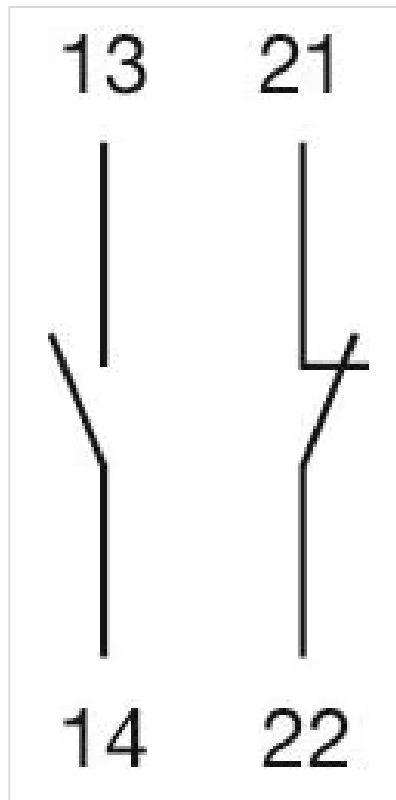
When using the switching element, the application guidelines must be observed. For the third switching element the terminal marking insert is to be ordered separately  
Operating temperature: Other temperatures on request

**Special requirements:**

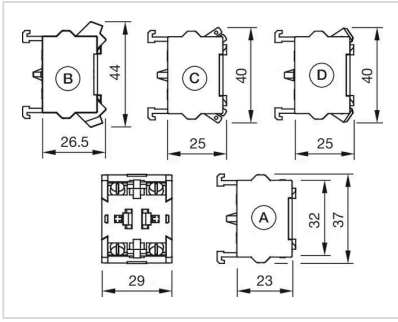
Special requirements for positive-opening auxiliary current switches  
Positive opening travel  
Minimum force  
Max. travel

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**Wiring diagrams:**



**Dimension drawings:**



- A = Screw terminal
- B = Push-in terminal (PIT)
- C = Plug-in terminal 6.3 mm x 0.8 mm
- D = Double plug-in terminal 6.3 mm x 0.8 mm