Connectors according to EN 175301-803, Form A

**K**

### Technical Features

- Connectors according to EN 175301-803, Form A only
- Durable angled connectors, dust and splash protected (IEC 60529 - IP65)
- Vibration-proof locking using a central screw
- For DC power supply available with optional electronics board with LED and protective diode
- For AC power supply available with optional electronics board with LED, bridge rectifier and varistor
- Common range of cable diameters from 4 mm to 8 mm using different sealings
- Suitable for hydraulic, pneumatic, electromagnetic actuators; e.g. solenoid valves, pressure sensors, flow indicators
- Ground pin contact position adjustable in 90° increments
- Optional terminal box color versions, black, grey and transparent

### Functional Description

Electrical connectors provide a fast and reliable interface for connecting/disconnecting to/from hydraulic and pneumatic valves, pressure switches, motor drives and other electrically driven industrial and mobile components. Innovative wire connecting methods and user-friendly assembly allow for easy installation to the electrical device. The connectors are available in many circuit versions to meet the customer’s specific application requirements.

### Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Electronics design</th>
<th>Cable diameter mm (in)</th>
<th>Ambient temperature range °C (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>without electronics</td>
<td>6 - 8 (0.24 - 0.32)</td>
<td>-25 ... +90 (-13 ... +194)</td>
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<tr>
<td>K2</td>
<td>LED and protective diode*</td>
<td>6 - 8 (0.24 - 0.32)</td>
<td>-25 ... +60 (-13 ... +140)</td>
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<td>K3</td>
<td>bridge rectifier and varistor</td>
<td>6 - 8 (0.24 - 0.32)</td>
<td>-25 ... +90 (-13 ... +194)</td>
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<td>K4</td>
<td>bridge rectifier, varistor and LED</td>
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<td>K5</td>
<td>without electronics</td>
<td>4 - 6 (0.16 - 0.24)</td>
<td>-25 ... +90 (-13 ... +194)</td>
</tr>
</tbody>
</table>

*Diode applicable for voltages up to 50 V DC

- Pressure screw torque: 1.8 ± 0.2 Nm (1.33 ± 0.15 ft-lbf)
- Contact screw torque: 0.2 ± 0.1 Nm (0.15 ± 0.07 ft-lbf)
- Central fixing screw torque: 0.4 ± 0.1 Nm (0.30 ± 0.07 ft-lbf)
- Wire cross-section: 0.5 - 1.5 mm² (0.0008 - 0.002 in²)
- Degree of protection acc. to DIN EN 60529: IP65**
- Number of PINs: 2 poles + Ground

**Valid only in case of proper mounting to the socket.

### Three Wire Cable

[Diagram of three wire cable]

- **Cable**
- **Wires**

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Connectors according to EN 175301-803, form A

**Design version**
- Without electronics, cable diameter 6-8 mm (0.24-0.32 in) - K1
- With LED and protective diode* - K2
- With bridge rectifier and varistor, cable diameter 6-8 mm (0.24-0.32 in) - K3
- With bridge rectifier, varistor and LED, cable diameter 6-8 mm (0.24-0.32 in) - K4
- Without electronics, cable diameter 4-6 mm (0.16-0.24 in) - K5

*Diode applicable for voltages up to 50 V DC

**Housing color**
- grey - G
- black - B
- transparent body; gray bushing - TG
- transparent body; black bushing - TB

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</table>

**Maximal current**
- 1.5 A
- 3 A
- 10 A

**Type of power supply**
- AC only
- DC only
- AC or DC

**Supply voltage range**
- 12 V ± 15 %
- 24 V ± 15 %
- 110 V ± 15 %
- 230 V ± 15 %
- max. 250 V

The order code is for illustrative purposes only and serves to describe the product properties.
For available combinations see the table of common, prefered available versions.
For other versions contact our technical support for their identification, feasibility and availability.