AMTROBOX F – Limit Switch Box for Levers and Actuators to ISO 5211

Applications:
Water, Building Services, Energy and Industry

More information:
www.ksb.com/products

ISORIA with AMTROBOX F and CR lever

ISORIA with AMTROBOX F and manual gearbox
Tougher industrial safety standards increasingly require manually actuated valves to be monitored. In order to meet the market requirements, KSB has developed a new concept for limit switches for levers and all kinds of actuators to ISO 5211.

Main features

With its very low installation height of under 5 mm AMTROBOX F can be installed directly between the valve and the actuator (manual actuator, lever). It is suitable for any quarter-turn valve and any actuator to ISO 5211 (examples: lever of the CR and CM type series or manual actuators of the MN and MR type series).

Durable inductive proximity sensors
Two inductive proximity sensors continuously and reliably provide open/closed position signalling (no contact with the components, so the service life does not depend on the number of actuation cycles).

Resistant PPS plastic
Thermoplastic PPS materials are light-weight and resistant with ideal properties for many applications. They are perfectly suited to an aggressive environment (salts, acids) and high temperatures (up to 70 °C). They are also very impact-resistant.

Quick to install, without installation kit
AMTROBOX F does not require an installation kit. It can be easily mounted on installed valves.

Wireless communication
AMTROBOX F is available as a high-end version for wireless communication with the process control station.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-20 °C to +70 °C</td>
</tr>
<tr>
<td>Power supply for the inductive proximity sensors</td>
<td>10 to 30 V DC / Max current 100 mA</td>
</tr>
<tr>
<td>Open/closed position</td>
<td>1 sensor for OPEN and 1 sensor for CLOSED</td>
</tr>
<tr>
<td>Enclosure</td>
<td>IP 67</td>
</tr>
<tr>
<td>Connection to power supply</td>
<td>1 M16 cable gland made of plastic or 1 M12 connector</td>
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<tr>
<td>Housing</td>
<td>PPS</td>
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</tbody>
</table>

For the following valves and valve sizes:

- **ISORIA 10/16**: DN 40 to DN 350
- **ISORIA 20/25**: DN 40 to DN 300
- **BOAX B**: DN 40 to DN 350
- **KE**: DN 40 to DN 300
- **DANAIS 150 / C / D / T 300 T**: DN 50 to DN 250
- **DANAIS MT II Class 150**: DN 50 to DN 250
- **DANAIS MT II Class 300**: DN 50 to DN 200
- **TRIODIS 150**: DN 150 to DN 250