### Inductive Sensors for Rotary Actuators

#### Types and Features

<table>
<thead>
<tr>
<th>Type</th>
<th>Ident-No.</th>
<th>Output</th>
<th>Connection</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM 04-035-01-FT132</td>
<td>1810594</td>
<td>2 x NAMUR</td>
<td>Terminal chamber</td>
<td>Ex II 3 GD 1, 3 GD 2</td>
</tr>
<tr>
<td>DM 04-035-01-FT102</td>
<td>1810595</td>
<td>2 x NAMUR</td>
<td>Terminal chamber</td>
<td>Ex II 2 GD</td>
</tr>
<tr>
<td>DM 04-035-02-03501</td>
<td>1810571</td>
<td>2 x NAMUR</td>
<td>Terminal chamber</td>
<td>Ex II 3 GD 2</td>
</tr>
<tr>
<td>DM 04-035-02-03402</td>
<td>1810572</td>
<td>2 x NAMUR</td>
<td>Terminal chamber</td>
<td>Ex II 3 GD 2</td>
</tr>
<tr>
<td>DM 04-035-02-03403</td>
<td>1810573</td>
<td>2 x NAMUR</td>
<td>Terminal chamber</td>
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<tr>
<td>DM 04-035-01-03702</td>
<td>1810580</td>
<td>2 x NAMUR</td>
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</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th>Type</th>
<th>Ident-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTS-DSU35-EB1</td>
<td>6900225</td>
<td>Actuation kit (puck), end position damped, for clockwise and counterclockwise rotating drives, displays rotatable by 90 °, display rotatable by 90 °, shaft extension height 20 (30) mm/Ø max. 30 mm, for DSU35</td>
</tr>
<tr>
<td>BTS-DSU35-EBE3</td>
<td>6901070</td>
<td>Actuation kit (puck), end position damped, stainless steel target (width 6.2 mm) to compensate application related tolerances, 360° adjustable end positions (open/closed) in increments of 4°, display rotatable by 90°, shaft extension height 20 mm, for DSU35</td>
</tr>
<tr>
<td>BTS-DSU35-EU2</td>
<td>6900455</td>
<td>Actuation kit (puck), end position undamped, for clockwise and counterclockwise rotating drives, displays rotatable by 90 °, shaft extension height 20 mm, for DSU35</td>
</tr>
<tr>
<td>P1-Ri-DSU35</td>
<td>6901086</td>
<td>Positioning element for angle sensors, included in delivery of Ri360-DSU35 sensor</td>
</tr>
<tr>
<td>BTS-DSU35-ZF04-M5</td>
<td>6901121</td>
<td>Mounting kit for manual valves of the size F04 with M5 female thread</td>
</tr>
<tr>
<td>BTS-DSU35-ZF05-M6</td>
<td>6901124</td>
<td>Mounting kit for manual valves of the size F05 with M6 female thread</td>
</tr>
</tbody>
</table>

#### Housing material

- Plastic, PP

#### Voltage range

- Maximum operating current

#### Degree of protection

- IP67

#### Temperature range

- (-40 °C*) - 25…+70 °C

#### Temperature drift

- ≤ 10 % (≤ 0,02 %/k*)

#### Display

- 2 x LED

### Over 30 subsidiaries and 60 representatives worldwide!
Position control on actuators and drives is of major importance not only in the chemical and petrochemical but also in the food industry. Thus new and open housing solutions are needed, which combine the inherent advantages of modular housings while eliminating their typical drawbacks.

With the new line of dual sensors and a full range of actuators kits, Turck now offers solutions with standard NAMUR output signal and the free programming of the switchpoints. Use the unique output signal and the free programming of the switchpoints. Use the unique output signal and the free programming of the switchpoints. Use the unique output signal and the free programming of the switchpoints. Use the unique output signal and the free programming of the switchpoints.

The local position indication is adjustable and usually simplified, local ministration are thus reduced. The actuator of the angle sensor is universally usable with the full angle capture of 360° degrees. Angle sensor is universally usable with the full angle capture of 360° degrees. Angle sensor is universally usable with the full angle capture of 360° degrees. Angle sensor is universally usable with the full angle capture of 360° degrees.

Mounting accessories

The interfaces for position feedback are clearly defined in the certificate ISO 5211/ VDE/10534. Turck dual sensors fit on all standard sizes. Additional accessories may be required for some devices. For this purpose we offer robust spacer plates together with the necessary mounting accessories. The advantages of this concept is that always the same sensor pack combination can be used for different drive sizes. To download the selection guide for standard drives please go to www.turck.com.

DSU35 Version for the chemical and petrochemical industry

The sensor shape is adapted to the shape of the pack, provides optimum protection and improves the compactness of the drive. Thus new and open housing solutions are needed, which combine the inherent advantages of modular housings while eliminating their typical drawbacks.

Under certain conditions, an additional mechanical protection is required - even for the approval of drives. The appropriate protection enclosures are available to the customer. The technical construction enables the use of tamper-proof switches. Universal accessories are available for all drives that adopt continuously over a wide range of adjustment - drilling dimensions and wave heights, which differ from the usual standard. Different devices can be adapted to the mechanical requirements at a later time.

Often, it seems to be possible to switch to an integrated terminal block, which is very important with using dual sensors. Through the Visual display by the 95° DSC26-Dual®, both of these requirements can be combined in a simple solution. Compact design with dual sensors and improved local position feedback signals over long distances. Mounting brackets and kits for hand-operated valves complete the extensive range of accessories.

Diverse accessories

We offer a complete range of accessories for various measures and installations. This enhances the functionality and at the same time reduces the installation time.

Structured connection technology

Accessories with terminal chamber feature a connection possibility that can be laterally adjusted at the customer's request. This makes the connection especially easy for assembly and disassembly.

Sophisticated connection technology

This enables the connection to various devices of the drives. The sensors are thus especially suitable for universal applications. The DSC26 sensor is compatible with the following features: 
- Analog output signal for process indications
- Current and easy to clean plastic surfaces
- Transparent to rapid temperature changes
- Resistant to rapid temperature changes
- Resistance to aggressive cleaning agents

Connectivity

Fast and error-free connection during system setup and after servicing. Turck dual sensors with standard connector M12, 1/2” or 7/8” can be integrated seamlessly in existing plug-and-play systems. Sensors with terminal chamber and integrated connection for cable ends, which are typically applied in process-related installations, are also available.

Approach

Different electrical outputs enable the integration in all standard process environments: 
- NAMUR versions, degree of protection Ex dei (downstream)
- 3-wire DC, 20…250 VDC
- 2-wire DC, 20…250 VDC
- 3-wire pnp for 24 VDC control systems
- Base protection according to IEC 61508

Turck’s refined injection moulding technology is an ideal solution, providing a max. 50% and completely sealed housing. The DSC26 sensor is thus especially suitable for universal applications. The DSC26 sensor is thus especially suitable for universal applications.

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