

**Vprox 773™**

TURCK Proximity Sensor for Valve Position Sensing

The **Vprox 773** sensor is an exceptionally durable sensor designed for use in hazardous areas found in various processing and manufacturing applications. These sensors are available with a potted-in cable or a quick disconnect that allows for faster more reliable installations.

The **Vprox 773** sensor is a 2-wire AC/DC (20-250 VAC or 10-300 VDC) inductive proximity sensor with FM approval for use in Class 1, Division 2 hazardous location placement and offers a NEMA 4, 4X and 6 environmental rating. The 316 stainless steel housing is ideal for the harsh chemical environments often found in these types of applications. The **Vprox 773** has dual power (green) and switching (red) LEDs which allow for easy sensor to target adjustment without the use of a meter. Since the **Vprox 773** uses inductive technology, it has no moving parts that can wear, jam, or break resulting in lower maintenance costs.

This innovative sensor has a 5/8" thread that will fit most industry standard valve brackets, and has a programmable output (normally open or normally closed) that is ideal for both valve and damper applications.

- *FM approved: Class 1, Division 2, Groups A, B, C, D*
- *316 stainless steel housing*
- *5/8" thread*
- *Universal voltage (20-250 VAC and 10-300 VDC)*
- *Non-contact inductive proximity sensor*
- *No moving parts that will wear, jam or break*
- *IP 67, NEMA 4, 4X, and 6*
- *-40°C (-40°F) temperature rating*

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Quick and Easy Installation Saves Time and Money



Two Vprox 773 proximity sensors are used to detect Open and Closed Status of the sliding stem valve to the right. The Vprox senses the presence of the metal bolt head on the L-bracket as it raises and lowers by actuation on the sliding stem valve.

Specifications

Housing Style

Threaded Barrel; 5/16" SAE w 1/2" NPT threaded entry or 5-pin *minifast*[®] QD

Housing Material

Metal, 316 Stainless Steel

Cable mm OD

7.2, 18 AWG, PVC, 2 M

Environmental Rating

IP 67, NEMA 4, 4X, 6

Approval Ratings

Class I, Division 2, Groups A, B, C, D

Rated Operational Voltage (AC)

20-250 VAC

Rated Operational Voltage (DC)

10-300 VDC

Rated Operational Current (AC)

100 mA

Rated Operational Current (DC)

100 mA

Output Function

2-wire, connection programmable

Short-circuit Protection

Yes

Wire Breakage / Reverse Polarity Protection

Yes

Rated Operating Distance Sn

2.5 mm

Mounting Mode

Embeddable

Operation Temperature

-40°C to +70°C (-40°F to +158°F)

Supply Voltage Indication

LED green

Switching Status Indication

LED red

Part Numbers

Bi 2.5-EG16CA-FDZ32X2

Bi 2.5-EG16CA-FDZ32X2-B1151

Description

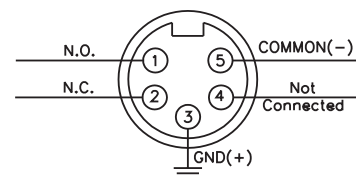
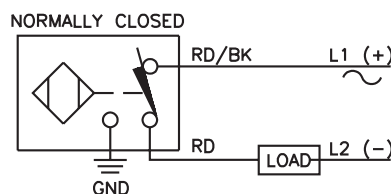
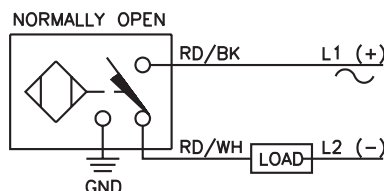
In automated manufacturing and processing plants, position sensors help monitor and control plant processes by confirming that critical activities are completed as intended. More specifically, their primary function is to detect the presence, or absence, of a moving object, or "target".

Advantages

The advantages of inductive proximity sensors:

- **No physical contact is required**
- **No moving parts to jam, wear, or break, results in less maintenance**
- **Not affected by dust or dirt**

Wiring Diagrams



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