GO Gets It.   The Most Versatile Switch Going
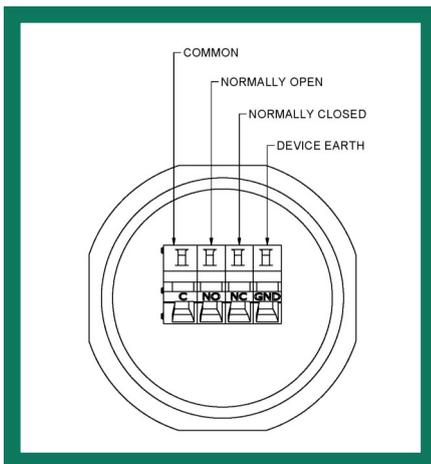
GO™ Switch 7J & 7JM With An Integral Junction Box

GO™ Switch Model 7J takes two proven technologies and combines them into one. The 7J is a one piece proximity sensor and junction box assembly that allows the end-user to terminate directly on to the sensor. There is no more need to acquire a separate fitting and junction box to be able to terminate to the sensor. The compact design gives the user the ability to install the sensor in areas where there are space constraints or where precision sensing is required, i.e., short stroking valves. The product is available with NEC and IEC hazardous area classifications and is available with imperial or metric threads.

Area Classifications :

- UL Class 1, Div 1, Groups A-D, Class II, Div 1, Groups E-G, Class III (Lead seal required within 18")

- cUL Class 1, Div 1, Groups A-D, Class II, Div 1, Groups E-G, Class III (Lead seal required within 18")

- UL Class 1, Div 2 , Groups A-D, Cl II Div 2, Groups E-G (Lead seal required within 18")

- cUL Class 1, Div 2, Groups A-D, CL II, Div 2, Groups E-G (Lead seal required within 18")

- cUL General Purpose

- UL General Purpose

- Ex d IIC T6 Gb (Tamb -40°C to +75°C) Ex tb IIIC T85°C/T100°C/T135°C Db (Tamb -40°C to 75°C), IP66/68

- Ex de IIC T6 Gb (Tamb -40°C to +75°C) Ex tb IIIC T85°C Db (Tamb -40°C to 75°C), IP66/68

EMERSON
Process Management

EMERSON. CONSIDER IT SOLVED.™

Model 7J With Integral Junction Box

Model 7J is a one piece proximity sensor and junction box assembly that allows the end-user to terminate directly on to the sensor. The compact design gives the user the ability to install the sensor in areas where there are space constraints or where precision sensing is required.

Features:
- SPDT
- Simple Apparatus
- One piece stainless steel construction
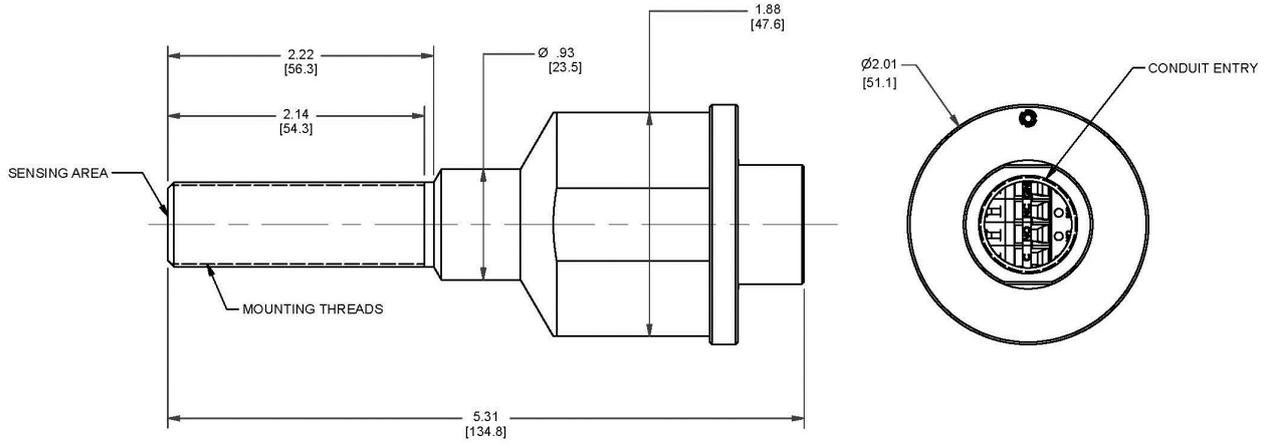- -40°C to 75°C (-40°F to 167°F) operating temperature

Options:
- Imperial or Metric Threads
- UL, cUL, IECEx, ATEX certifications

Model	Contact Form	Sensing Range	Outlet Position

Differential:
Approx. 0.5mm (0.20")

Operating Temperature: -40°C to 75°C (-40°F to 167°F)

Contact Resistance: 500mΩ

Insulation Resistance: 100MΩ Min. (@500VDC)

7J 5/8" x 2 5/32" Mounting Threads
1/2" NPT Conduit

7JM M18 x 1 Mounting Threads
M20 Conduit

Contact Material: Palladium silver with sawtooth surface configuration

Form: SPDT Form C

Ratings: Resistive

AC		DC	
Volts	Amps	Volts	Amps
120	4	24	3

SPDT

1 Single Pole Double Throw (Form C)

Target Material: Ferrous steel

Sensing Range:
2.5 mm (0.100") end sensing

3 Standard sensing approx. 2.5mm (0.100") end sensing

Extended Sensing Range with External Target Magnets
(See Accessories for External Target Magnets)

Extending Sensing Rage with External Target Magnets 73, 75, 77 Series		
Magnet	Sensing	Differential
AMP3	0.20"	0.25"
AMS4	0.35"	0.15"
AMS7	0.20"	0.05"

Conduit Outlet:

5 Bottom of enclosure

Ordering Guide
Fill in the boxes
to create your
'ordering number'

Model ——	-	Contact Form 1	Sensing Range 3	Outlet Position 5

Dimensions

GO SWITCH™

2.22
[56.3]

2.14
[54.3]

Ø .93
[23.5]

1.88
[47.6]

Ø2.01
[51.1]

CONDUIT ENTRY

SENSING AREA

MOUNTING THREADS

5.31
[134.8]

Enclosure Material
2 303 stainless steel (rated 2,000 psi)

Area Classification
3 UL Class I Div 1 , Groups A-D Cl II Div 1, Groups E-G, Class III (Lead seal required within 18")
4 cUL Class I Div 1 , Groups A-D Cl II Div 1, Groups E-G, Class III (Lead seal required within 18")
5 UL Class I Div 2 , Groups A-D Cl II Div 2, Groups E-G (Lead seal required within 18")
6 cUL Class I Div 2 , Groups A-D Cl II Div 2, Groups E-G (Lead seal required within 18")
7 cUL General Purpose
8 UL General Purpose
9 Ex d IIC T6 Gb (T_{amb} -40°C to 75°C), Ex tb IIIC T85C Db (T_{amb} -40°C to 75°C), IP66/68
Y Ex de IIC T6 Gb (T_{amb} -40°C to 75°C), Ex tb IIIC T85C Db (T_{amb} -40°C to 75°C), IP66/68

Wiring Options
JSP (1/2" NPT) only available with 7J
JSM (M20) only available with 7JM

Enclosure Material **2**	Approvals — —	Wiring Options — —

The TopWorx™ Family of Products

GO™ SWITCH
Using a unique technology, GO Switch outperforms conventional limit switches and proximity sensors in the toughest applications. If your plant conditions are hot, cold, wet, dirty, abusive, corrosive, or explosive, be sure to specify GO Switch for a long, trouble-free life.

TopWorx™ Discrete Valve Controllers
TopWorx™ D-Series discrete valve controllers are certified for use in every world area. They carry IECEx, ATEX, UL, and CSA certifications in a single model, making it easier for global customers to standardize across plants in multiple world areas. Other certifications available include NEPSI, KOSHA, InMetro, and GOST. TopWorx™ D-Series discrete valve controllers can survive in virtually any plant condition. Their heavy-duty construction and corrosion resistance enable superior performance in the most demanding applications.

TopWorx™ T-Series switchboxes deliver outstanding value by providing full functionality in compact, direct-mount enclosures. Available with a variety of position sensors, integral solenoid valves, and bus networks, the T-Series is suitable for use in all hazardous areas and carry IECEx, ATEX, and CSA certifications.

TopWorx SIL-3 ESD Valve Controllers provide a complete Partial Stroke Test Solution with unique features and functionality that enable partial stroke testing of emergency shutdown valves without disrupting or shutting down the process.

WIRELESS
The TopWorx™ 4310 Wireless Position Monitor is a component of Emerson's Smart Wireless solutions for field instrumentation. Smart Wireless extends PlantWeb's predictive intelligence into areas that were previously out of physical or economic reach, opening the door for new possibilities in process management.

WIRELESS SAFETY SHOWER MONITORING SOLUTION
The TopWorx™ Wireless Safety Shower Monitoring Solution combines two 10 Series, latching GO Switches with a Rosemount 702 Wireless Transmitter that provide on/off indication, time stamping, and automated reporting functions for safety shower/eyewash stations.

VIP BRACKETS
With over 1,500 mounting kit designs, TopWorx™ products can be mounted on any rack-n-pinion, scotch-yoke, or vane actuator, quarter-turn manual valves, linear knifegate and control valves, and positioners.

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Process Management

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