



The Most Versatile Switch Going

GO™ Switch 7J With An Integral Junction Box
Simple. Reliable. Maintenance-Free.



Highly reliable hybrid limit switch and proximity sensor help you regulate and isolate your process with certainty.

Emerson's TopWorx™ GO™ Switch position sensing technology provides absolute assurance in the most challenging applications by increasing reliability, profitability and reducing down time. Engineered to meet tough applications while offering high reliability and installation flexibility, these rugged, dependable, and affordable models are designed to provide dependability in all environments.

Existing switches can't handle harsh conditions on a regular basis and will eventually fail due to inherent design limitations—resulting in equipment damage or life-threatening accidents.



Users are increasingly looking for sensor solutions that reduce their maintenance requirements in critical applications.



Changing environmental and application conditions make it difficult to get consistent, repeatable precision sensing feedback with traditional sensors.





What if Emerson's highly versatile switches and sensors opened up new horizons for you to explore?

GO™ Switch 7J With An Integral Junction Box

Product overview

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
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GO™ Switch - 7J



Model 7J With Integral Junction Box

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Features

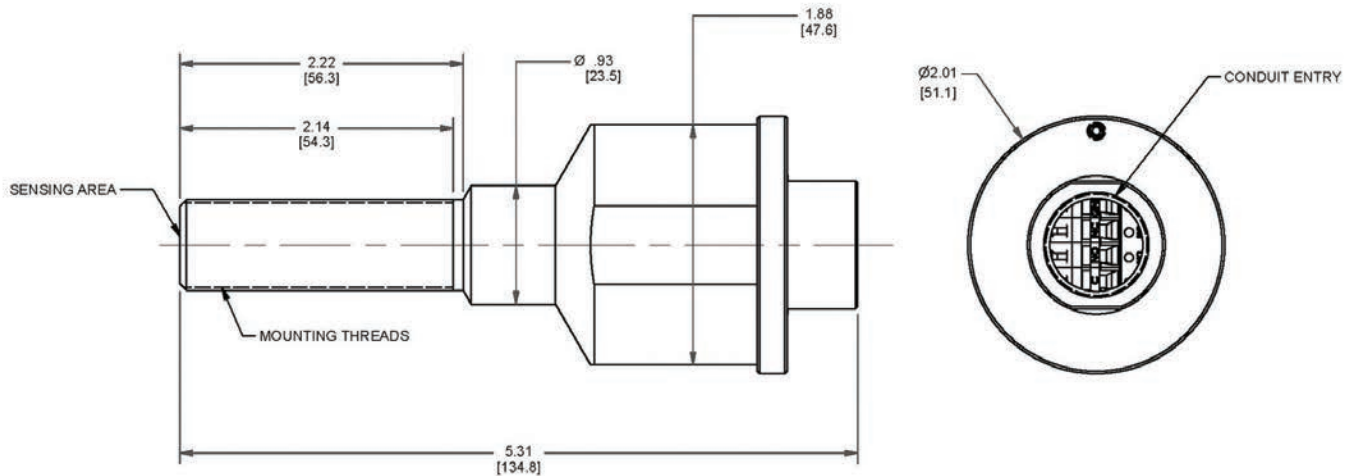
- SPDT
- Simple Apparatus
- One piece stainless steel construction
- -40°C to 75°C (-40°F to 167°F) operating temperature
- CE, CCC Certified

Options

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

Model	Contact Form	Sensing Range	Outlet Position																											
<p>Differential: Approx. 0.5 mm (0.20")</p> <p>Operating Temperature: -40°C to 75°C (-40°F to 167°F)</p> <p>Contact Resistance: 100 mΩ</p> <p>Insulation Resistance: 100 MΩ Min. (@500 VDC)</p> <p>7J 5/8" x 2 5/32" Mounting Threads 1/2" NPT Conduit</p> <p>7JM M18 x 1 Mounting Threads M20 Conduit</p> <p>Ordering Guide Fill in the boxes to create your 'ordering number'</p>	<p>Contact Material: Palladium silver with sawtooth surface configuration</p> <p>Form: SPDT Form C</p> <p>Ratings: Resistive</p> <table><tr><th colspan="2">AC</th><th colspan="2">DC</th></tr><tr><td>Volts</td><td>Amps</td><td>Volts</td><td>Amps</td></tr><tr><td>120</td><td>4</td><td>24</td><td>3</td></tr></table> <p>SPDT</p> <p>1 Single Pole Double Throw (Form C)</p>	AC		DC		Volts	Amps	Volts	Amps	120	4	24	3	<p>Target Material: Ferrous steel</p> <p>Sensing Range: 2.5 mm (0.100") end sensing</p> <p>3 Standard sensing approx. 2.5 mm (0.100") end sensing</p> <p>Extended Sensing Range with External Target Magnets (See Accessories for External Target Magnets)</p> <table><tr><th colspan="3">Extending Sensing Range with External Target Magnets 73, 75, 77 Series</th></tr><tr><td>Magnet</td><td>Sensing</td><td>Differential</td></tr><tr><td>AMP3</td><td>0.20"</td><td>0.25"</td></tr><tr><td>AMS4</td><td>0.35"</td><td>0.15"</td></tr><tr><td>AMS7</td><td>0.20"</td><td>0.05"</td></tr></table>	Extending Sensing Range 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"	<p>Conduit Outlet:</p> <p>5 Bottom of enclosure</p>
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Model — —	Contact Form 1	Sensing Range 3	Outlet Position 5																											

Dimensions



Enclosure Material	Area Classification	Wiring Options	Regional Certs
6 316L stainless steel	<p>3 UL Class I Div 1, Groups A-D Cl II Div 1, Groups E-G, Class III (Lead seal required within 18")</p> <p>4 cUL Class I Div 1, Groups A-D Cl II Div 1, Groups E-G, Class III (Lead seal required within 18")</p> <p>5 UL Class I Div 2, Groups A-D Cl II Div 2, Groups E-G (Lead seal required within 18")</p> <p>6 cUL Class I Div 2, Groups A-D Cl II Div 2, Groups E-G (Lead seal required within 18")</p> <p>7 cUL General Purpose</p> <p>8 UL General Purpose</p> <p>9 Ex d IIC T6 Gb (Tamb -40°C to 75°C), Ex tb IIIC T85C Db (Tamb -40°C to 75°C), IP66/68</p> <p>Y Ex de IIC T6 Gb (Tamb -40°C to 75°C), Ex tb IIIC T85C Db (Tamb -40°C to 75°C), IP66/68</p> <p>F ATEX/IECEX Zone 0 Ex ia IIC T6 Ga Ex ia IIIC T85°C Da (-40°C < Ta < 50°C)</p> <p>G ATEX/IECEX Zone 0 Ex ia IIC T4 Ga Ex ia IIIC T135°C Da (-40°C ≤ Ta ≤ 100°C)</p> <p>H ATEX/IECEX Zone 0 Ex ia IIC T3 Ga Ex ia IIIC T200°C Da (-40°C ≤ Ta ≤ 150°C)</p>	<p>JSP (1/2" NPT) only available with 7J</p> <p>JSM (M20) only available with 7JM</p>	<p>N NEPSI (Area Class 9 only)</p> <p>R EAC (Area Class 9 only)</p>

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™ K-Series



The K-Series switchbox gives you a compact, robust product that conforms to the latest European Directives. The use of quality materials and attention to detail in the design and manufacturing processes has resulted in an excellent reputation for reliability. The requirement for maintenance has been virtually eliminated.

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 knife-gate and control valves, and positioners.

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.