

GO Gets It.

Engineered To Outperform

GO™ Switch Models 7CX & 7DX

Hazardous Area Approved Hydraulic/Pneumatic End-of-Stroke Position Sensors are now available!

GO Switch models 7CX (1.025" probe length) and 7DX (1.250" probe length) are hazardous area approved versions of our popular 7C and 7D Stroke-to-GO Hydraulic/Pneumatic End-of-Stroke Position Sensors.

The 7CX and 7DX probes and mounting flange are drop-in replacements to models 7C and 7D, respectively. There is however a difference in the housing. Rather, than having a rotatable head, the wiring comes from the top of the unit and does not rotate. Refer to figures 1 and 2 on page 3 for dimensional comparisons between the 7CX/7C and the 7DX/7D.

Options for the 7CX and 7DX include a hermetic seal and various terminal options and lengths. Consult with the factory to order hermetically sealed versions.

UL Approval

 Class I, Div 1 & 2, Groups A-D, Class II, Div 1 & 2, Groups E-G, Class III

ATEX/IECEx Approval Options:

-  II 1 G Ex ia IIC T6 Ga, Ex iD IIIC T85°C Da ($-40^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C}$)
-  II 1 G Ex ia IIC T4 Ga, Ex iD IIIC T135°C Da ($-40^{\circ}\text{C} \leq \text{Ta} \leq 100^{\circ}\text{C}$)
-  II 1 G Ex ia IIC T3 Ga, Ex iD IIIC T200°C Da ($-40^{\circ}\text{C} \leq \text{Ta} \leq 150^{\circ}\text{C}$)
-  II 2 GD Ex d IIC T6 Gb, Ex tb IIIC T85°C Db ($-40^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$)
-  II 2 GD Ex d IIC T4/T3 Gb, Ex tb IIIC T135°C /T200°C Db ($-40^{\circ}\text{C} \leq \text{Ta} \leq +100^{\circ}\text{C}/150^{\circ}\text{C}$)



**GO
SWITCH**

TOPWORX


EMERSON
Process Management

EMERSON. CONSIDER IT SOLVED.™

Model 7CX & 7DX

www.topworx.com



Model 7CX & 7DX

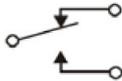
The GO Switch Model 7CX (1.025" probe length) & 7DX (1.250" probe length) are hazardous area approved versions of our popular 7C and 7D Stroke-To-Go Hydraulic/Pneumatic End-Of-Stroke Position Sensors.

Features:

- SPDT 4A contacts
- Intrinsically Safe
- -40°C to 105°C operating temperature

Options:

- Lead wires or cables
- Hermetic seal

Model	Contact Form	Sensing Range	Outlet Position																								
Repeatability: .002" (.05mm) typical Response Time: 8 milliseconds Differential: Approx. .020" (.51 mm) Operating Temperature: -40°F to 221°F (-40°C to 105°C). 7CX 1.025" probe length 7DX 1.250" probe length	Contact Material: Palladium silver with sawtooth surface configuration <table border="1"> <thead> <tr> <th colspan="2">AC</th> <th colspan="2">DC</th> </tr> <tr> <th>Volts</th> <th>Amps</th> <th>Volts</th> <th>Amps</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>4</td> <td>24</td> <td>3</td> </tr> <tr> <td>240</td> <td>2</td> <td>48</td> <td>1.25</td> </tr> <tr> <td>480</td> <td>*</td> <td>120</td> <td>0.5</td> </tr> <tr> <td></td> <td></td> <td>250</td> <td>0.5</td> </tr> </tbody> </table> 4 SPDT (Form C)  Form C - SPDT	AC		DC		Volts	Amps	Volts	Amps	120	4	24	3	240	2	48	1.25	480	*	120	0.5			250	0.5	Target Material: Ferrous steel 3 Standard sensing - approx. .090" end sensing. (Recommended air gap .015" - .040")	Conduit Outlet: 1/2" NPT 5 Top outlet
AC		DC																									
Volts	Amps	Volts	Amps																								
120	4	24	3																								
240	2	48	1.25																								
480	*	120	0.5																								
		250	0.5																								
Ordering Guide Fill in the boxes to create your 'ordering number'																											
Model —	Contact Form 4	Sensing Range 3	Outlet Position 5																								

Dimensions

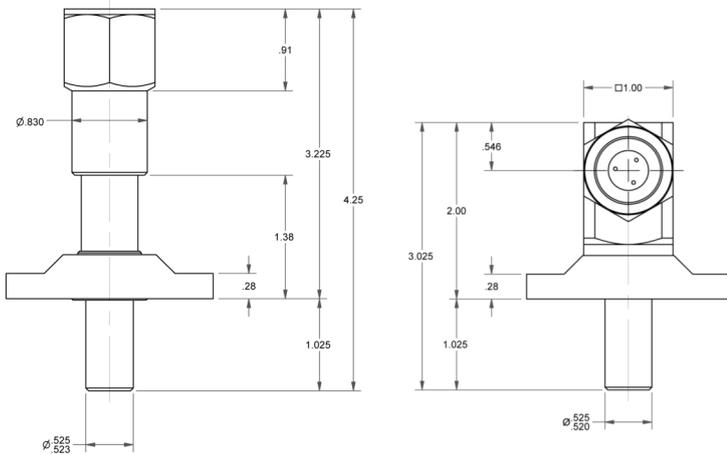


Figure 1: 7CX vs. 7C

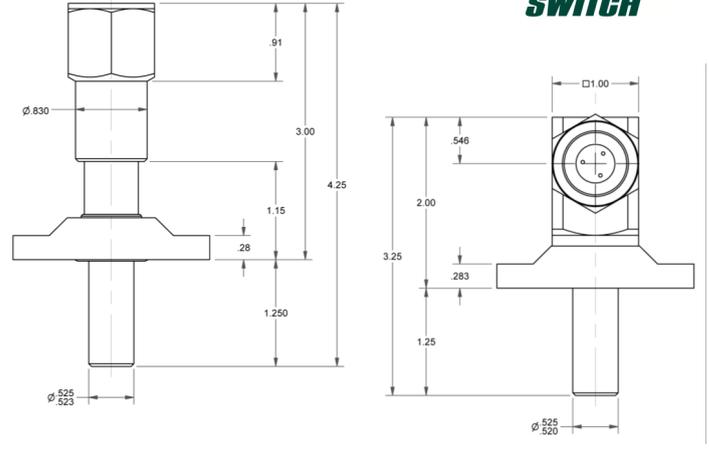


Figure 2: 7DX vs. 7D

Enclosure Material	Approvals	Wiring Options
<p>5 Stainless steel (rated 3,000 PSI operating) (3 to 1 safety factor applies to standard probe lengths)</p>	<p>3 UL CI I Div 1 & 2 Groups A-D; II Div 1 & 2, Groups E-G, CI III</p> <p>9 ATEX/IECEX Zone 1 Ex d IIC T6 Gb, Ex tb IIIC T85°C Db (-40°C ≤ Ta ≤ 50°C) - Wiring A or B Ex d IIC T4/T3 Gb, Ex tb IIIC T135°C/T200°C Db (-40°C ≤ Ta ≤ 100°C/150°C) - Wiring F</p> <p>T ATEX/IECEX Zone 1 Ex d IIC T6 Gb, Ex tb IIIC T85°C Db (-40°C ≤ Ta ≤ 50°C) - Wiring A or B, Ex d IIC T4/T3 Gb, Ex tb IIIC T135°C/T200°C Db (-40°C ≤ Ta ≤ 100°C/150°C) - Wiring F (Hermetically Sealed)</p> <p>F ATEX/IECEX Zone 0, Ex ia IIC; T6 Ga Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 50°C) (Wiring A or B)</p> <p>G ATEX/IECEX Zone 0, Ex ia IIC; T6 Ga, Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 100°C) (Wiring F)</p> <p>H ATEX/IECEX Zone 0, Ex ia IIC T6 Ga, Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 150°C) (Wiring F)</p>	<p>Lead Wires 18 Gauge, PVC insulated</p> <p>A2 36" (914 mm)</p> <p>A3 72" (1829 mm)</p> <p>A4 144" (3658 mm)</p> <p>A_ Custom Length</p> <p>Cable 18 Gauge, PVC insulated</p> <p>B2 36" (914 mm)</p> <p>B3 72" (1829 mm)</p> <p>B4 144" (3658 mm)</p> <p>B_ Custom Length</p> <p>HiTemp Leads 18 gauge, Teflon™ Insulated</p> <p>F2 36" (914 mm)</p> <p>F3 72" (1829 mm)</p> <p>F4 144" (3658 mm)</p> <p>F_ Custom Lengths</p>
<p>Enclosure Material 5</p>	<p>Approvals —</p>	<p>Wiring Options —</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.



VALVETOP™

Valvetop 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. Valvetop 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.



Valvetop 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.

GLOBAL SALES & SUPPORT OFFICES

Americas

3300 Fern Valley Road
Louisville, Kentucky 40213 USA
+1 502 969 8000
info.topworx@emerson.com

Europe

Horsfield Way
Bredbury Industrial Estate
Stockport SK6 2SU
United Kingdom
+44 0 161 406 5155
info.topworx@emerson.com

Middle East

P.O. Box 17033
Jebel Ali Free Zone
Dubai 17033
United Arab Emirates
+971 4 811 8283
info.topworx@emerson.com

Africa

24 Angus Crescent
Longmeadow Business Estate East
Modderfontein
Gauteng
South Africa
+27 11 451 3700
info.topworx@emerson.com

Asia-Pacific

1 Pandan Crescent
Singapore 128461
+65 6891 7550
info.topworx@emerson.com

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TOPWORX

3300 Fern Valley Road
Louisville, Kentucky 40213 USA
+1 502 969 8000

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