

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



EMERSON
Process Management

Model

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

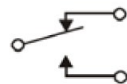
7DX 1.250" probe length

Contact Form

Contact Material: Palladium silver
with sawtooth surface configuration

AC		DC	
Volts	Amps	Volts	Amps
120	4	24	3
240	2	48	1.25
480	*	120	0.5
		250	0.5

4 SPDT (Form C)



Form C - SPDT

Sensing Range

Target Material: Ferrous steel

3 Standard sensing - approx. .090" end
sensing. (Recommended air gap .015"
- .040")

Outlet Position

Conduit Outlet: 1/2" NPT

5 Top outlet

Ordering Guide

Fill in the boxes
to create your
'ordering number'

Model

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Contact Form

4

Sensing Range

3

Outlet Position

5

Dimensions

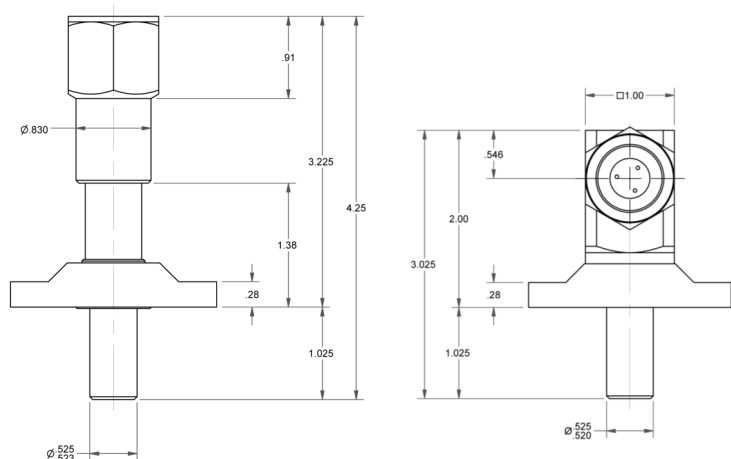


Figure 1: 7CX vs. 7C

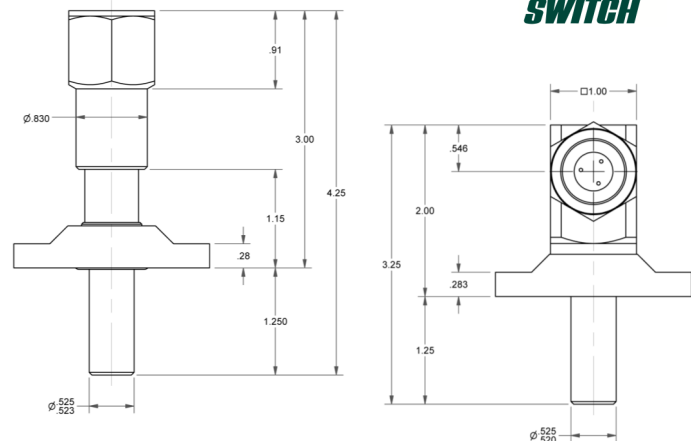


Figure 2: 7DX vs. 7D

Enclosure Material

- 5** Stainless steel (rated 3,000 PSI operating) (3 to 1 safety factor applies to standard probe lengths)

Approvals

- 3** UL CI I Div 1 & 2 Groups A-D; II Div 1 & 2, Groups E-G, CI III
- 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
- 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)
- 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)
- G** ATEX/IECEX Zone 0, Ex ia IIC; T6 Ga, Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 100°C) (Wiring F)
- H** ATEX/IECEX Zone 0, Ex ia IIC T6 Ga, Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 150°C) (Wiring F)

Wiring Options

Lead Wires 18 Gauge, PVC insulated

- A2** 36" (914 mm)
A3 72" (1829 mm)
A4 144" (3658 mm)
A_ Custom Length

Cable 18 Gauge, PVC insulated

- B2** 36" (914 mm)
B3 72" (1829 mm)
B4 144" (3658 mm)
B_ Custom Length

HiTemp Leads 18 gauge, Teflon™ Insulated

- F2** 36" (914 mm)
F3 72" (1829 mm)
F4 144" (3658 mm)
F_ Custom Lengths

Enclosure Material
5

Approvals
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Wiring Options
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