

## DIGITAL EPIC POSITION TRANSMITTERS

EXPLOSIONPROOF/FLAMEPROOF - ATEX/IEC/NEC

Position Transmitters that provide discrete position control and precision, non-contact position feedback with digital communication via HART<sup>®</sup> protocol for linear or rotary control valves in a simple, integrated package.



### **TECHNICAL DATA**

Agency approvals Area classification (ATEX/IEC) D410/D420

Area classification (NEC 500) D410/D420

Enclosure standards (IEC) Enclosure standards (ANSI/NEMA 250) **Enclosure**  Ex d IIB+H2 AEx d IIB+H2 Ex nA IIC AEx nA IIC

Class I, Division 1, Groups B,C & D Class I, Division 2, Groups A,B,C & D Class II, Division 1, Groups E,F & G Class III IP66 Type 4X Aluminum with powder coat finish

## FEATURES

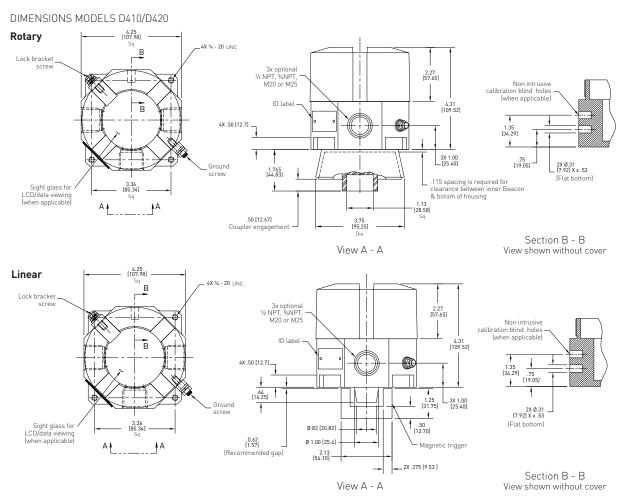
- Microprocessor based technology allows digital communication via HART<sup>®</sup> protocol.
- Model D410 features remote and local partial stroke test (PST) and emergency shut down (ESD) initiated remotely via HART<sup>®</sup> signal or locally at the device for safety system applications.
- Non-intrusive' magnetic calibration input sensors on outside of the D410 enclosure allow calibration without removing the cover, maintaining safety in a potentially explosive environment.
- Valve position measurement via a noncontact magnetic sensor eliminates mechanical drive arms or linkages increasing reliability in high cycle applications or where vibration is present.
- Highly visible position indicator.
- Site glass on Model D410 gives view to the product's LCD display.
- Extra conduit entries and internal terminal points are provided for mounting and backwiring of a solenoid valve.
- Low copper content aluminum enclosure with polyurethane enamel coating assures both strength and corrosion resistance.

## **GENERAL APPLICATION**

Digital EPIC position transmitters are ideal for applications with sophisticated process patterns and those that require partial stroke testing (PST) or remote emergency shut down (ESD) initiation.

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Dimensions in inches, metric dimension (mm) in parentheses

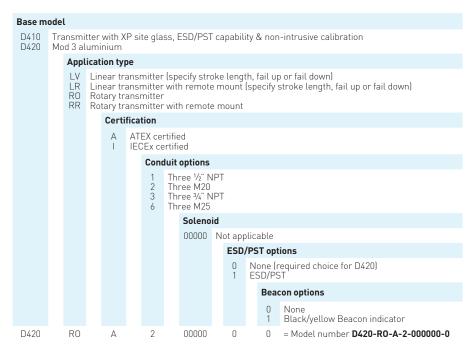
### **TECHNICAL SPECIFICATIONS**

1/2"NPT 3/4"NPT M20 M25
4 - 20 mA proportional to valve position
10 to 30 V
± 1.0% F.S.
60° to 120°
30% of calibration span
≤ 0.05% F.S.
Negligible
-40°C to +85°C (-40°F to +185°F)
≤ 0.01% F.S./°C
10% to 90% non-condensing
≤ 0.2% F.S. from 10 V DC to 30 V DC
Protected
Any position
0.5 seconds
25 ms

### NOTES

\* Linearity is applicable for rotary and linear with stroke 2" and under.

D410/D420 (ATEX/IEC)



### NOTES

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.
- 3. Valve stroke and fail position must be specified at time of quotation for LV and LR options

### D410/D420 (NEC)

Base model					
D410 D420	thre	Aluminum enclosure with XP site glass, ESD/PST capability and non-intrusive calibration [includes three ¾" NPT [F]] Aluminum enclosure with three ¾" NPT [F]]			
	Application type				
		LV LR RO RR	Linear transmitter <sup>[3]</sup> Linear transmitter with remote mount option <sup>[3]</sup> Rotary transmitter Rotary transmitter with remote mount option		
	ESD/PST				
			0 1	None (required choice for D420) ESD/PST function (required choice for D410)	
D410		RO	1	= Model number <b>D410R01</b>	



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 $\textbf{Westlock.} \ \text{We reserve the right to change designs and specifications without notice.}$