

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® protocol for linear or rotary control valves in a simple, integrated package.



TECHNICAL DATA

Agency approvals

Area classification (ATEX/IEC)

D410/D420

Ex d IIB+H2 AEx d IIB+H2 Ex nA IIC AEx nA IIC

Area classification (NEC 500)

D410/D420

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

Enclosure standards (IEC)

Type 4X

Enclosure standards (ANSI/NEMA 250)

Enclosure

Aluminum with powder coat finish

FEATURES

- Microprocessor based technology allows digital communication via HART® protocol.
- Model D410 features remote and local partial stroke test (PST) and emergency shut down (ESD) initiated remotely via HART® 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.

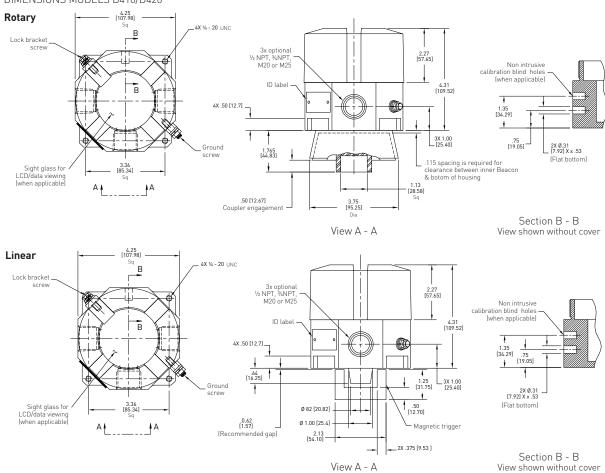
GENERAL APPLICATION

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 MODELS D410/D420



Dimensions in inches, metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Conduit entries	1/2"NPT 3/4"NPT M20 M25
Output	4 - 20 mA proportional to valve position
Terminal voltage required	10 to 30 V
Linearity*	± 1.0% F.S.
Span adjustment	60° to 120°
Zero adjustment	30% of calibration span
Resolution	< 0.05% F.S.
Hysteresis	Negligible
Standard operating temperature range	-40°C to +85°C (-40°F to +185°F)
Temperature effect	< 0.01% F.S./°C
Humidity	10% to 90% non-condensing
Voltage effect	< 0.2% F.S. from 10 V DC to 30 V DC
Reverse polarity	Protected
Mounting attitude	Any position
Startup stabilization	0.5 seconds
Output update rate	25 ms

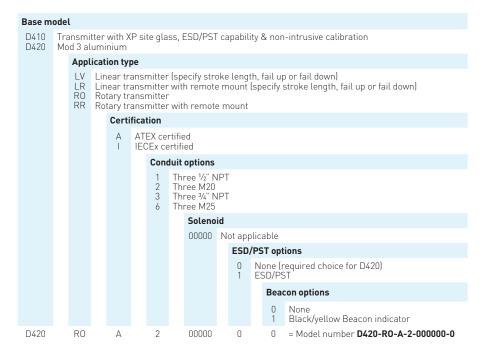
NOTES

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

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MODELS 410/420 SELECTION GUIDE

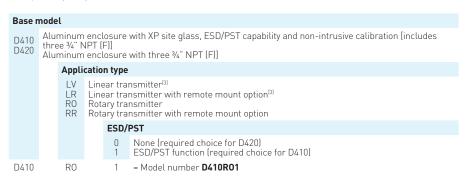
D410/D420 (ATEX/IEC)



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.
- ${\it 3.} \quad {\it Valve stroke and fail position must be specified at time of quotation for LV and LR options}$

D410/D420 (NEC)





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