RMG® Electromech
Redefining Mechatronics Globally

POSITION TRANSMITTER
2 WIRE - NON-CONTACT - INDUCTIVE INTRINSICALLY SAFE

MODEL : RMG - UPT-EX-IS - 0501

SALIENT FEATURES

- Intrinsically Safe certified
- Non-contact, Inductive type
- Accepts a wide Supply Voltage Range
- Wide operating temperature range
- Minimal Effect of ambient temperature variance on accuracy
- Encapsulated electronics to protect from moisture, vibration and tampering of the circuitry
- Compact in size as compared to other Position Transmitters available in the market
- Has two additional trimpots for the adjustment of "MID LOW" and "MID HIGH" position
- High accuracy with minimal Linearity and Hysteresis errors
- Reverse Polarity protected.
- High Isolation and Dielectric strength.
- Suitable for use in very low stroke as well as for very high stroke applications.
- Die - cast enclosure capable of enduring high hydro-static pressure with high ingress protection. Complies with IP 67 requirements as per IS/IEC 60529:2001.

DESCRIPTION

RMG-UPT-EX-IS-0501 is a 2wire Position Transmitter widely used to transmit the position of a Control Valve in a variety of process control applications. The Contactless Inductive Position Transmitter is a 24V DC operated 2 Wire system, which accepts angular movements ranging from 0°-15° to 0°-90° and converts into a 4.00 to 20.00mA signal when suitable back lever and linkages are used. **RMG-UPT-EX-IS-0501** is Intrinsically Safe for use in zone I & II for Gas group IIA, IIB and IIC as per IS/IEC 60079/0 : 2007 and IS/IEC 60079/11 : 2006

APPLICATION

- Position control, monitoring and feedback.
- Custom built operations.

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SPECIFICATION

SL.No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-15° to 0-90°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	10V DC to 28 VDC
4.	Influence of input supply voltage	≤0.3% of span
5.	Type of Transmitter	Two wire
6.	Type of Sensor	Inductive, Non contact LVDT
7.	Load impedance	700 Ω at 24V DC
8.	Operating Temperature Range	-20°C to 80°C
9.	Effect of Temperature	≤0.3% / 10° C
10.	Linearity Error	≤0.5% of Span
11.	Hysteresis Error	≤0.5% of Span
12.	Zero Adjustment	±5% of Span
13.	Span Adjustment	±15% Span
14.	Built in Protection	Sensor and Converter are epoxy moulded for protection from moisture, vibration and tampering of circuitry.
		Isolation at 500V DC is ≥500 MΩ
		Dielectric Strength is ≥1.5KV rms for 1 minute.
		Reverse polarity protected.
		Enclosure withstands hydrostatic pressure upto 20Kg/cm² for 1 minute.
	Enclosure Details	
	a) Size	Ø104mm, Height – 122mm
	b) Weight	≤1.2 Kg
	c) Material & finish	Aluminum (LM6) gravity die-cast. Enamel painted & oven baked.
	d) Enclosure Protection (Safety and Sealing)	Complies with the Ingress Protection requirements of IP 67 as per IS/IEC 60529:2001. Intrinsically safe for use in zone I & II for gas group IIA, IIB and IIC as per IS / IEC 60079 / 0 : 2007 and IS / IEC-60079 / 11 : 2006.

In addition , we design and manufacture POSITION TRANSMITTERS AS PER CUSTOMER REQUIREMENTS/ SPECIFICATION

Open View

Mounting/Linkage Accessories

Note 1 : Due to continuous product improvement initiatives, specification is subject to change.
Note 2: Images provided are for indicative purpose only. Accessories shown are not part of standard supply.