

**POSITION TRANSMITTER**  
**2 WIRE - NON-CONTACT- INDUCTIVE**

**MODEL : RMG-4020-CPT**



**SALIENT FEATURES**

- Non-contact, Inductive type.
- Accepts a wide range of supply voltages.
- Wide Operating Temperature range.
- Minimal effect of ambient temperature variance on accuracy.
- Encapsulated electronics - to protect from moisture, vibration and tampering of the circuitry.
- High accuracy with minimal Linearity and Hysteresis errors.
- Reverse Polarity protected.
- High Isolation and Dielectric strength.
- Best for very low strokes applications demanding high accuracy in measurement.
- Die - cast enclosure capable of enduring high hydro static pressure and with high ingress protection. Complies with IP 67 requirements as per IS/IEC 609471 : 2004.

**DESCRIPTION**

**RMG-4020-CPT** is a 2 wire 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 2Wire System, which accepts angular movements ranging from 0° to 15° to 0° to 30° and converts into 4.00 to 20.00mA signal, when suitable back lever and linkages are used.

**APPLICATIONS**

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



**SPECIFICATION**

SI No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-15° to 0-30°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	10V DC to 60 V DC
4	Influence of Input Supply Voltage	≤0.3% of span
5	Type of Transmitter	Two wire
6	Type of Sensor	LVDT, Non – contact, Inductive
7	Load Impedance	700 Ω at 24 V 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% of 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 ≥500MΩ. Dielectric strength between chassis and shorted input terminals are ≥1.5KV rms for 1 Minute. Reverse Polarity protected. Enclosure withstands hydrostatic pressure upto 10Kg/cm <sup>2</sup> for 1 Minute.
15	<u>Enclosure Details</u>	
	a) Size	Ø136mm, Height – 120mm
	b) Weight	<2 Kg approx.
	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 60947-1:2004

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.