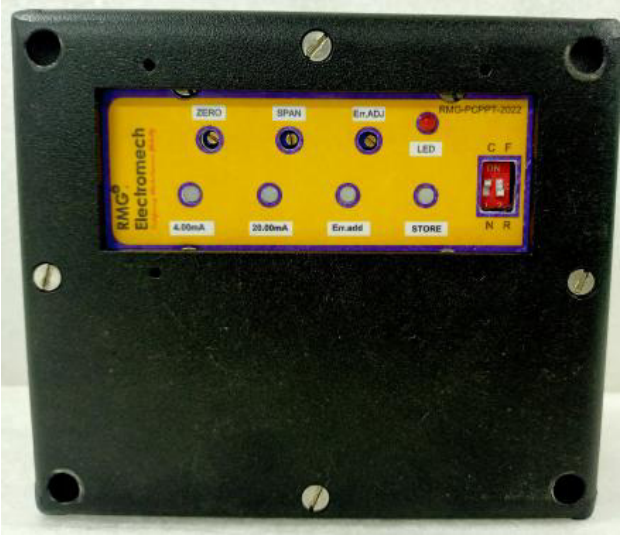
RMG®
Electromech
Redefining Mechatronics Globally

POSITION TRANSMITTER
2 WIRE - NON-CONTACT – HALL EFFECT

MODEL: RMG –PCPPT-2022



FRONT VIEW

INSIDE VIEW

SALIENT FEATURES

- Non-contact, Hall Effect 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
- Linearity can be adjusted for a maximum of 15 Points in the operating range.
- High accuracy with minimal Linearity and Hysteresis errors
- Reverse Polarity protected
- Suitable for use in very low stroke as well as for very high stroke applications

APPLICATION

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

DESCRIPTION

RMG-PCPPT-2022 is a Micro Controller based Position Transmitter, used to transmit the position of a Control Valve / Pneumatic / Electric Actuator. The Contactless Hall effect based Position Transmitter is a 24V DC operated 2Wire System, which accepts angular movements ranging from 0°-270° and converts into a 4.00 to 20.00mA signal when suitable back lever and linkages are used.

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SPECIFICATIONS

Sl No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-270°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	10V DC to 60 V DC
4	Influence of Input Supply Voltage	≤0.2% of span
5	Type of Transmitter	Two wire
6	Type of Sensor	Hall Effect, Non contact
7	Load Impedance	700 Ω at 24 V DC
8	Burden Effect	<0.1% / 700Ω
9	Residual Ripple	<0.5% of Imax
10	Response time for full range	<0.2 S
11	Operating Temperature Range	-20° C to 80° C
12	Effect of Temperature	≤0.1% / 10°C
13	Linearity Error	≤ 0.5% of span
14	Hysteresis Error	≤ 0.5% of span
15	Zero Adjustment	Independent adjustment using Push Button Switch. Current Adjustment possible from 03.90mA to 08.00mA typical using Trimpot.
16	Span Adjustment	Independent adjustment using Push Button Switch. Current Adjustment possible from 16.00mA to 22.00mA typical using trimpot.
17	Direction Selection	Using Dipswitch
18	IN/OUT connections	Screw type Terminals
19	Built in Protection	Epoxy moulded for protection from moisture, vibration and tampering of circuitry
		Reverse Polarity protected
20	Size	116L x 101W x 76mm H
21	Weight	<1 Kg approx.

Note : Due to continuous product improvement initiatives,
specification is subject to change.

BOTTOM VIEW

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