

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

**MODEL: RMG-UPT-136H-21**



### DESCRIPTION

**RMG-UPT-136H-21** is a 2 wire Position Transmitter, widely used to transmit the position of a Control Valve / Power Cylinder / Electric Actuator in a variety of process control applications. The Contactless Hall effect based Position Transmitter is a 24V DC operated 2Wire System, which accepts angular movements ranging from 0° to 15° to 0° to 90° and converts into 4.00 to 20.00mA signal when suitable back lever and linkages are used.

### SALIENT FEATURES

- Non-contact, inductive Hall Effect type.
- User friendly, embedded design assisted calibration.
- 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 and rugged as compared to other Position Transmitter available in the market.
- Linearity curve can be adjusted for a maximum of 15 positions in the operating range of the CV/PC.
- 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 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.

### APPLICATION

- Position control, monitoring and feedback.
- Customized operations.

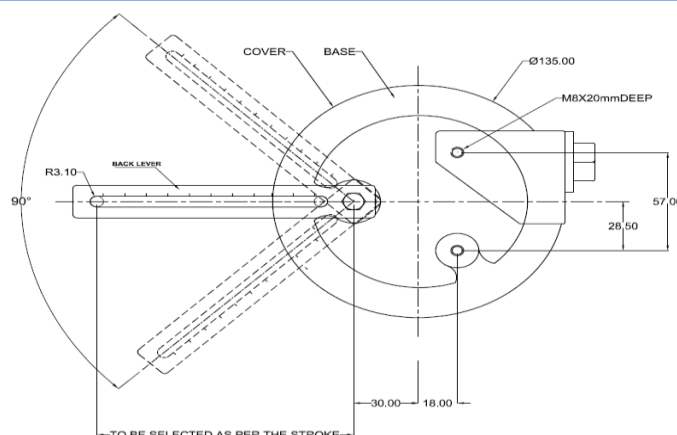


## SPECIFICATION

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 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, Inductive.
7	Load Impedance	700 Ω at 24 V DC
8	Burden Effect	<0.1% / 700Ω
9	Residual Ripple	<0.5% of I max
10	Response time for full range	<0.2 Sec.
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	Independent adjustment using Push Button switch (Current adjustment possible from 3.70mA to 7.00mA using zero trimpot).
16	Span	Independent adjustment using Push Button switch ( Current, adjustment possible from 17.00mA to 23.00mA using Span trimpot).
17	Linearity Adjustment using ERR. ADD switch and ERR.ADJ. trimpot.	Current at midpoints between CLOSE and OPEN can be adjusted to ±2.50mA accuracy. Maximum of 15 positions can be adjusted and set.
18	Direction Selection	Using Dipswitch
19	Built in Protection	Sensor and Converter are conformal coated for protection from moisture, vibration and tampering of circuitry. Isolation at 500V DC ≥500MΩ. Dielectric strength ≥1.5KV rms for 1 Minute. Reverse Polarity protected. Enclosure withstands hydrostatic pressure upto 10Kg/cm <sup>2</sup> for 1 Minute.
20	<u>Enclosure Details</u>	
	a) Size	Ø136 X H 120mm.
	b) Weight	≤1.7 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.
	e) Electrical connection	½" NPT standard. Provision for any other cable gland available on request.



**VIEW-TOP COVER REMOVED**



**MOUNTING DETAILS (BOTTOM VIEW)**

In addition, we design and manufacture POSITION TRANSMITTERS AS PER CUSTOMER REQUIREMENTS/ SPECIFICATION  
**Due to continuous product improvement initiatives, specification is subject to change.**

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