

**POSITION TRANSMITTER**  
**2 WIRE INDUCTIVE - NON CONTACT**  
**CAM OPERATED - LVDT BASED**

**MODEL: RMG-LVCAM-2090-01**



**DESCRIPTION**

**RMG-LVCAM-2090-01** is a 2 wire Position Transmitter, widely used to transmit the position of a Control Valve / Power Cylinder in a variety of process control applications. The Non-contact type, Inductive Position Transmitter is a 24V DC operated, 2 Wire System using LVDT as transducer which accepts angular movements from 0°-90° and converts into a 4.00-20.00mA signal when suitable back lever and linkages are used. The whole electronics is housed inside a glass-filled Nylon G6 moulded enclosure and is epoxy encapsulated for protection from moisture and vibration. Instrument is provided with weather-proof tightness.

**SALIENT FEATURES**

- Non-Contact, inductive type.
- CAM operated.
- Accepts a wide range of supply voltage.
- High Load impedance drive capability.
- 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.
- Die - cast enclosure capable of enduring high hydro static Pressure and with high ingress protection. Complies with IP 67 requirements as per IS/IEC 60947-1: 2004.

**APPLICATION**

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



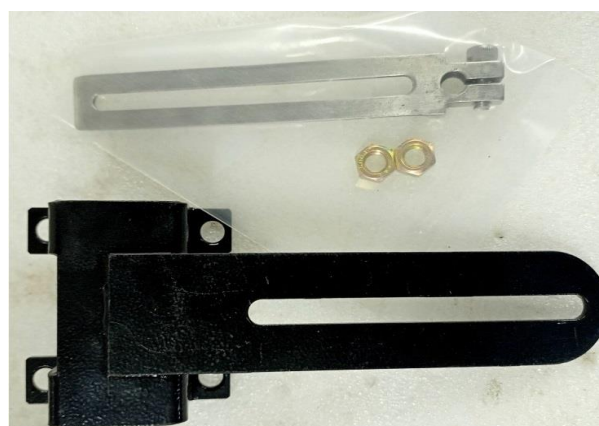
*Redefining Mechatronics Globally*

## SPECIFICATION

SL.No	Characteristics	Specified value
1	Transmitter Configuration	Two wire
2	Supply Voltage	10V DC to 60V DC
3	Influence of Supply Voltage	≤0.3% of span
4	Maximum Load Impedance	700 Ω at 24V DC
5	Type of Sensor	CAM and LVDT based
6	Input	Angular movements ranging from 0-20° to 0-90°
7	Output	4.00mA – 20.00mA
8	Linearity Error	≤0.5% of span
9	Hysteresis Error	≤0.5% of span
10	Adjustability of ZERO	±5% of span
11	Adjustability of SPAN	±15% of span
12	Operating Temperature	-20°C to +80°C
13	Effect of Temperature	≤0.4% / 10°C
14	Built in Protection	Sensor & Converter are epoxy moulded for protection from moisture, vibration and tampering of circuitry. Isolation at 500V DC is >500 MΩ Dielectric strength between chassis and shorted input terminals are >1.5KVrms 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	Ø136 X H 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
	e) Electrical connection	½"NPT standard. Provision for any other cable gland available on request.



OPEN VIEW



MOUNTING/LINKAGE ACCESSORIES