

# LWM Series

## Linear Position Sensor



### Feature:

- High resolution and repeatability, resistance to shock, vibration and noise fields. • Excellent linearity, up to 0.02%.
- Sampling frequency 32KHZ.
- Absolute rise or fall analog output signal.
- Guided sensing element, inductance non-contact measurement principle.

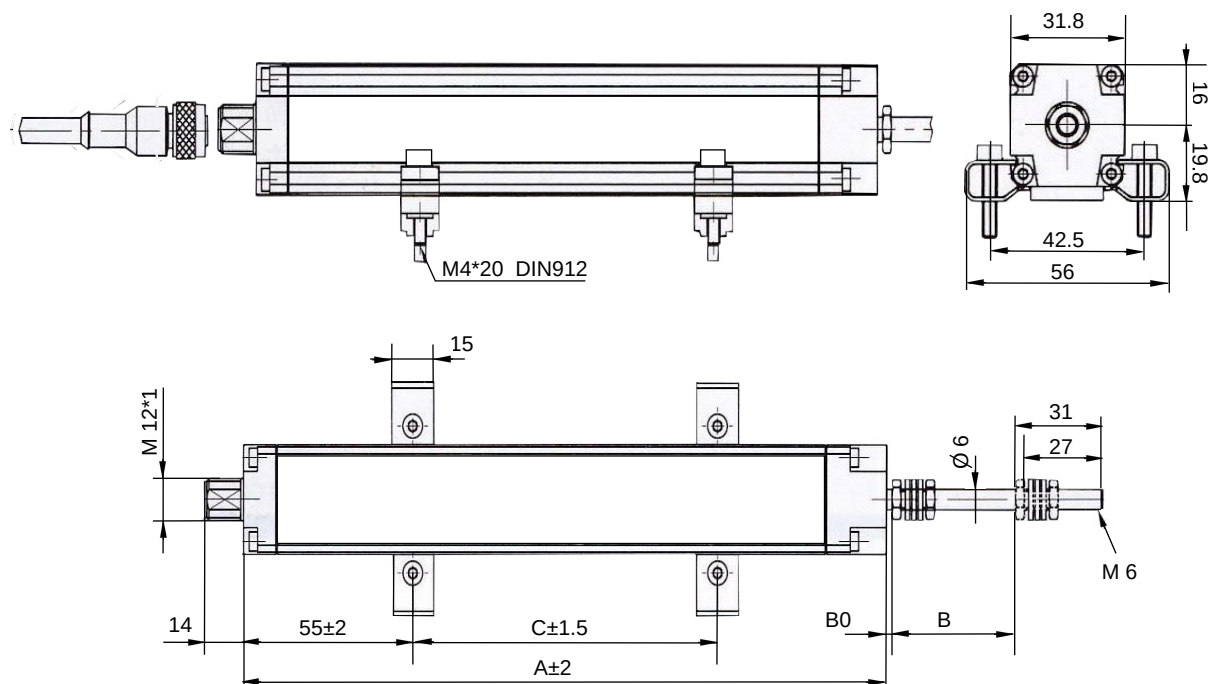
### Details:

- Installation mode Fixed by two supports
- The working state can change the signal slope by the connection mode of the pins. • Electrical connection M12 8-core cable
- With EMC Level 4 circuit design
- Case anodized aluminum

### Usage:

- Fast measurement feedback
- Provide standard analog signal to PLC
- Quality management, industrial data analysis
- Experimental analysis, mechanical manufacturing

### Dimensions:



Housing length: A = range+100 mm, Mechanical zero point: B0 = 0+2 mm,  
Electrical zero point = B0+5 mm, Electrical range: B = range+10 mm

## Parameters:

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Work voltage          | DC 18~30V Wide range input overvoltage protection max=36 V   |
| Power consumption     | 24VDC max 110mA                                              |
| Range                 | 75、100、130、150、175、225、260、300、360、375、400、450、500、750       |
| Protection class      | IP54                                                         |
| Storage temperature   | -40 + 100 °C                                                 |
| Output signal         | 0-10V (6mA)、4-20mA short-circuit protection to ground 36V DC |
| Working temperature   | -20 + 85°C                                                   |
| anti-shock load       | 100g / 6ms                                                   |
| application range     | PLC , feedback signal for position                           |
| refresh speed         | 32 K HZ                                                      |
| Electrical connection | cable and aviation plug integrated                           |
| Resolutions           | 5 um (≤0.35uA)                                               |
| Repeatability         | 10 um                                                        |
| Linearity             | ≤0.02 %                                                      |
| Vibration             | 12g, 10...2000HZ                                             |

## wirings:

| Pin | connector with cable |
|-----|----------------------|
| 1   | Lb                   |
| 2   | brown 0 V            |
| 3   | NC                   |
| 4   | La                   |
| 5   | grey 4...20 mA       |
| 6   | pink GND             |
| 7   | blue +24V DC         |
| 8   | NC                   |

## instructions:

