

Datasheet

General features

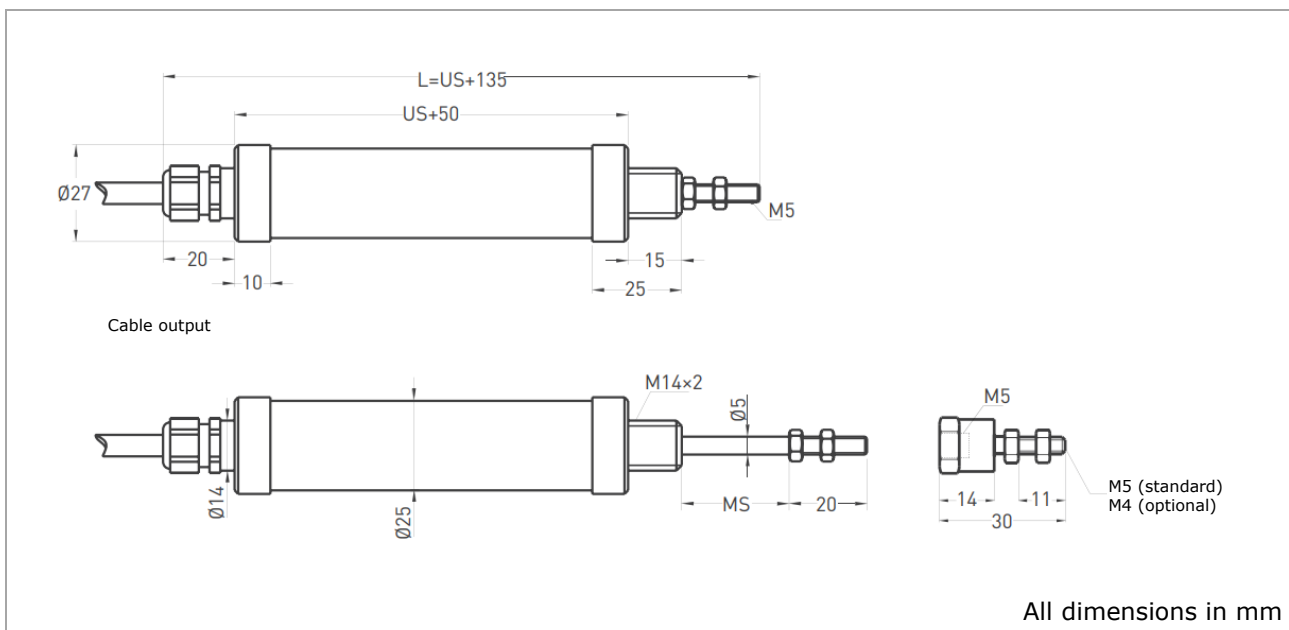
- Internal voltage / current conditioner circuit
- Measuring range 25 to 400 mm
- Long mechanical life: 100 million movements
- Excellent repeatability: <0.01 mm
- Infinitely variable resolution
- Output: 4-20 mA or 0-10 V



Technical specifications

| | |
|-----------------------------|---|
| Measurement stroke | 25 to 400 mm |
| Linearity | ±%0.05 (>200 mm), ±%0.1 (130 - 200 mm), ±%0.2 (75 - 129 mm), ±%0.5 (<75 mm) |
| Repeatability | <0.01 mm |
| Resolution | Infinitely variable |
| Output | 4-20 mA or 0-10 V |
| Permissible applied voltage | 15 - 30 VDC max. |
| Electrical connections | 1 meter cable (standard) |
| Displacement speed | <5 m/s |
| Vibration (EN 60068-2-6) | 5-200 Hz; 200 m/s ² (20 g); 2 h 30 min each axis (x,y,z) |
| Shock (EN 60068-2-2:2007) | 500 m/s ² (50 g); 11 ms each axis (x,y,z) |
| Mechanical life | 100 million movement |
| Case dimensions | ∅25 mm |
| Case material | Anodized aluminium |
| Rod diameter | ∅5 mm |
| Rod material | Stainless steel |
| IP rating (EN 60529) | IP65 |
| Operating temperature | -20°C ... +80°C |
| Storage temperature | -30°C ... +90°C |

Dimensions



WLP-C-ERF1_DB_2023-03-27_EN

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Measuring range

| | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WLP-C-ERF1 (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 |
| US (Useful Stroke) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 |
| MS (Mechanical Stroke) | 28 | 53 | 78 | 103 | 128 | 153 | 178 | 203 | 253 | 303 | 353 | 403 |
| L (Total Length) | 155 | 185 | 210 | 235 | 260 | 285 | 310 | 335 | 385 | 435 | 485 | 535 |

Ordering example

| | | | | | | | | | | | |
|--|--|---|-------------|---|------------|---|----------|---|------------|---|-----------|
| Type | WLP-C | - | ERF1 | - | 175 | - | D | - | I40 | - | 1M |
| Category | | | | | | | | | | | |
| E | = electrical; (voltage/current) | | | | | | | | | | |
| Type of construction | | | | | | | | | | | |
| R | = round | | | | | | | | | | |
| Location of electrical connection | | | | | | | | | | | |
| F | = frontal | | | | | | | | | | |
| Connection type | | | | | | | | | | | |
| 1 | = cable | | | | | | | | | | |
| Measurement stroke (mm) | | | | | | | | | | | |
| | 25 ... 400 mm (see table) | | | | | | | | | | |
| Linearity (%) | | | | | | | | | | | |
| A | = ±%0.5 (<75 mm) | | | | | | | | | | |
| B | = ±%0.2 (75 - 129 mm) | | | | | | | | | | |
| C | = ±%0.1 (130 - 200 mm) | | | | | | | | | | |
| D | = ±%0.05 (>200 mm) | | | | | | | | | | |
| Output (mA or V) | | | | | | | | | | | |
| I40 | = 4-20 mA | | | | | | | | | | |
| V10 | = 0-10 V | | | | | | | | | | |
| Electrical connection | | | | | | | | | | | |
| 1M | = 1 meter cable (standard) , open cable end | | | | | | | | | | |
| 1M5 | = 1.5 meter cable (optional), open cable end | | | | | | | | | | |
| 2M5 | = 2.5 meter cable (optional), open cable end | | | | | | | | | | |

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.