

Datasheet

General features

- Measuring range 10 to 100 mm
- Long mechanical life: 100 million movements
- Excellent repeatability: <0.01 mm
- Infinitely variable resolution
- Resistance:
2 kOhm: 10 ... 50 mm,
5 kOhm: 75 ... 100 mm
- Push-button with spring return



Technical specifications

| | |
|---------------------------------|--|
| Measurement stroke | 10 to 100 mm |
| Linearity | ±%0.2 (75 - 100 mm), ±%0.5 (<75 mm) |
| Repeatability | <0.01 mm |
| Resolution | Infinitely variable |
| Resistance | 2 kOhm: 10 ... 50 mm, 5 kOhm: 75 ... 100 mm |
| Resistance tolerance | ±%20 |
| Load resistance | 100 kOhm min. |
| Recommended consumption current | <1 µA |
| Permissible applied voltage | 28 VDC max. |
| Electrical connections | 5 pin connector or 1m cable output (other lengths available) |
| Displacement speed | <5 m/s |
| Mechanical life | 100 million movement |
| Case dimensions | Ø18 mm |
| Case material | Anodized aluminium |
| Rod diameter | Ø5 mm |
| Rod material | Stainless steel |
| Mechanical fixing | Variable brackets |
| IP rating | IP65 |
| Operating temperature | -20°C ... +80°C |
| Storage temperature | -30°C ... +90°C |

Dimensions

$L = US + MS + A + 47$
 $US + 47$ MS A
 $\varnothing 5$
 $\varnothing 7$
 $M16 \times 0.75$
 Connector type C5
 1 blue (-)
 2 yellow (Vout)
 3 brown (+)
 Shield
 Cable output (standard)
 $M4 \times 12$
 23 10 29
 18 1 6 42

| WLP-S-SRT1/-T2 | 10 | 25 | 50 | 75 | 100 |
|----------------|----|----|----|----|-----|
| A (mm) | 35 | 35 | 42 | 42 | 42 |

WLP-S-SRT1-T2_DB_2023-03-27_EN

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Measuring range

| | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|
| WLP-S-SRT1/-T2 (mm) | 10 | 25 | 50 | 75 | 100 |
| US (Useful Stroke) | 10 | 25 | 50 | 75 | 100 |
| MS (Mechanical Stroke) | 13 | 28 | 53 | 78 | 103 |
| L (Total Length) | 105 | 135 | 192 | 242 | 292 |

Ordering example

| | | | | | | | | | | | |
|--|--|---|-------------|---|------------|---|----------|---|-----------|---|-----------|
| Type | WLP-S | - | SRT1 | - | 100 | - | A | - | 5K | - | 1M |
| Category | | | | | | | | | | | |
| S | = small; Ohm (resistance) | | | | | | | | | | |
| Type of construction | | | | | | | | | | | |
| R | = round | | | | | | | | | | |
| Location of electrical connection | | | | | | | | | | | |
| T | = Push-button with spring return | | | | | | | | | | |
| Connection type | | | | | | | | | | | |
| 1 | = cable | | | | | | | | | | |
| 2 | = connector | | | | | | | | | | |
| Measurement stroke (mm) | | | | | | | | | | | |
| | 10 ... 100 mm (see table) | | | | | | | | | | |
| Linearity (%) | | | | | | | | | | | |
| A | = ±%0.5 (<75 mm) | | | | | | | | | | |
| B | = ±%0.2 (75 - 100 mm) | | | | | | | | | | |
| Resistance (kOhm) | | | | | | | | | | | |
| 2K | = 2 kOhm: 10 ... 50 mm | | | | | | | | | | |
| 5K | = 5 kOhm: 75 ... 100 mm | | | | | | | | | | |
| Electrical connection | | | | | | | | | | | |
| 1M | = 1 meter cable (standard), open cable end | | | | | | | | | | |
| 1M5 | = 1.5 meter cable, open cable end | | | | | | | | | | |
| 2M | = 2 meter cable, open cable end | | | | | | | | | | |
| C5 | = 5 pin connector | | | | | | | | | | |

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