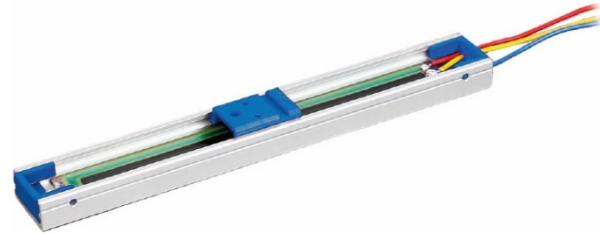


Datasheet

General features

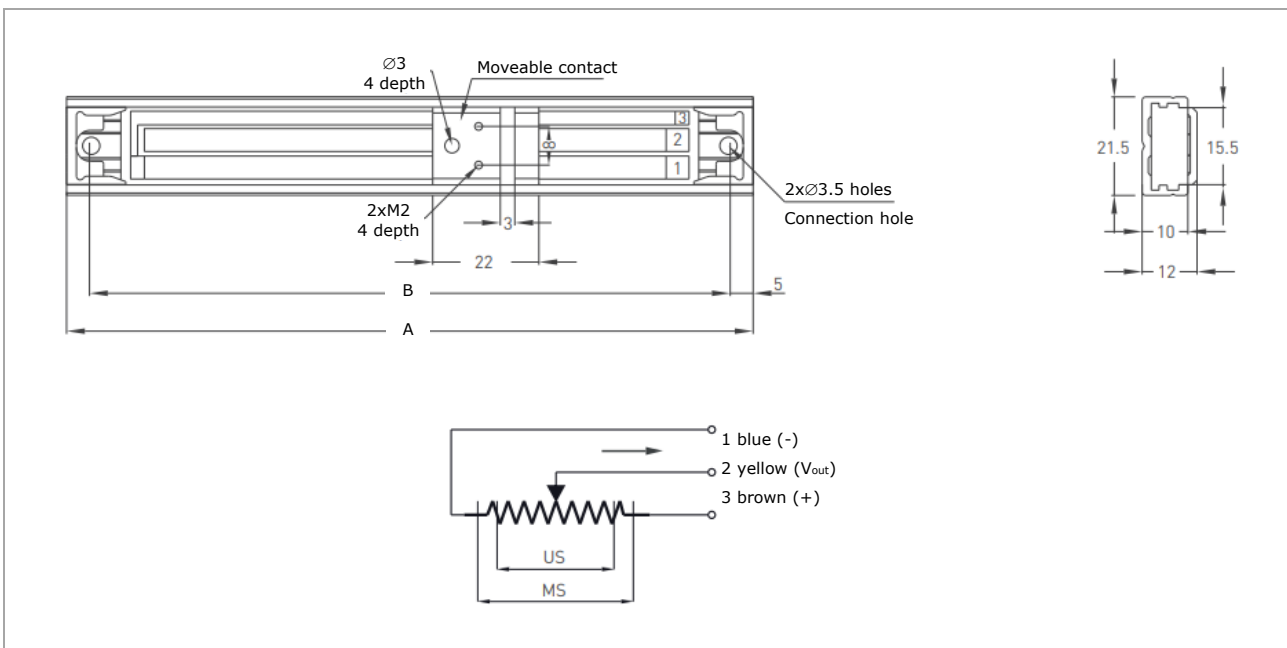
- Measuring range 50 to 1000 mm
- Long mechanical life: 100 million movements
- Special teflon bearing system
- Excellent repeatability: <0.01 mm
- Infinitely variable resolution
- Resistance:
 - 5 kOhm: 50 ... 600 mm,
 - 10 kOhm: 650 ... 1000 mm



Technical specifications

| | |
|---------------------------------|---|
| Measurement stroke | 50 to 1000 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 |
| Resistance | 5 kOhm: 50 ... 600 mm, 10 kOhm: 650 ... 1000 mm |
| Resistance tolerance | ±%20 |
| Load resistance | 100 kOhm min. |
| Recommended consumption current | <1 µA |
| Permissible applied voltage | 28 VDC max. |
| Electrical connections | 0.25 m cable (standard) |
| Displacement speed | <5 m/s |
| Mechanical life | 100 million movement |
| Case dimensions | 21,5 mm x 10 mm |
| Case material | Anodized aluminium |
| Mechanical fixing | Variable brackets |
| IP rating | IP65 |
| Operating temperature | -20°C ... +80°C |
| Storage temperature | -30°C ... +90°C |

Dimensions



WLP-O-MQS1_DB_2023-03-27_EN

Datasheet

Measuring range

| | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WLP-O-MQS1 (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| A±1 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
| B±05 | 90 | 140 | 190 | 240 | 290 | 340 | 390 | 440 | 490 | 540 |

| | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| WLP-O-MQS1 (mm) | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 |
| A±1 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1050 |
| B±05 | 590 | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 1040 |

Ordering example

| | | | | | | | | | | | |
|--|---|---|-------------|---|------------|---|----------|---|-----------|---|-------------|
| Type | WLP-O | - | MQS1 | - | 500 | - | D | - | 5K | - | 0M25 |
| Category | | | | | | | | | | | |
| M | = medium; Ohm (resistance) | | | | | | | | | | |
| Type of construction | | | | | | | | | | | |
| Q | = quadratic | | | | | | | | | | |
| Location of electrical connection | | | | | | | | | | | |
| S | = lateral | | | | | | | | | | |
| Connection type | | | | | | | | | | | |
| 1 | = cable | | | | | | | | | | |
| Measurement stroke (mm) | 50 ... 1000 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) | | | | | | | | | | |
| Resistance (kOhm) | | | | | | | | | | | |
| 5K | = 5 kOhm: 50 ... 600 mm | | | | | | | | | | |
| 10k | = 10 kOhm: 650 ... 1000 mm | | | | | | | | | | |
| Electrical connection | | | | | | | | | | | |
| 0M25 | = 0.25 meter cable (standard), 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.