# LRS

## Linear Potentiometer

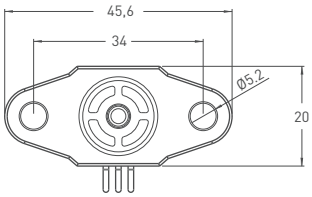
## Internal Spring Return, Slim Body Series

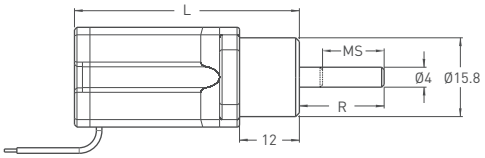
- Measuring range 10 - 25 mm
- <0.01 mm repeatability
- Infinite resolution
- 2 kOhm : 10 - 25 mm

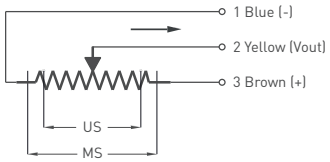


| Technical Specifications | |
|---|---|
| Measurement stroke | 10 - 25 mm |
| Linearity | ±%0.5 (≤75 mm) |
| Repeatability | < 0.01 mm |
| Resolution | Infinite |
| Resistance | 2 kOhm : 10 - 25 mm |
| Resistance tolerance | ± %20 |
| Load resistance | 100 kOhm min. |
| Recommended wiper current | <1 µA |
| Permissible applied voltage | 28 VDC max. |
| Electrical connections | Cable output |
| Displacement speed | < 5 m/s |
| Mechanical life | 50 million movement |
| Case diameter | 46 mm x 20 mm |
| Case material | Plastic |
| Rod material | Stainless steel |
| Rod diameter | Ø4 mm |
| Mechanical fixing | Screw |
| Protection level | IP 40 |
| Operating temperature | -20°C ... +80°C |
| Storage temperature | -30°C ... +90°C |

## Mechanical Specifications




| LRS (mm) | 10 | 25 |
|---|---|---|
| US (Usefull stroke) | 10 | 25 |
| MS (Mechanical stroke) | 13 | 28 |
| R (Rod length) | 17 | 32 |
| L (Total length) | 45 | 60 |

## Ordering Procedure

| Model | Measurement stroke (mm) | Linearity (%) | Resistance (kOhm) | Cable |
|---|---|---|---|---|
| LRS | 25 | A | 2K | 0M15 |
| LRS | 10 - 25 mm | A: ±%0.5 (≤75 mm) | 2 kOhm : 10 - 25 mm | 0M15 : 0.15 meter cable |

Please note: The specifications and information in this datasheet may not cover all special demands arising from specific applications. Therefore, they do not constitute a comprehensive description of the product properties. OPKON accepts no responsibility for damages resulting from the improper application of our products. The user is responsible for ensuring that the products used are suitable for their own application.