RTM Linear Potentiometer
Ruby Serie I Advanced Design

Features

- Measuring range 50 - 600 mm
- Long mechanical life 100 million cycles
- Excellent repeatability <0.01 mm
- Infinite resolution
- 5 KΩhm or 10 KΩhm

Technical Specifications

**Measurement stroke**: 50 to 600 mm

Linearity: ±0.05% (+200mm), ±0.1% (130–200mm), ±0.2% (75–130mm), ±0.5% (<75mm)

Repeatability: < 0.01 mm

Resolution: Infinite

Resistance: 5 KΩhm or 10 KΩhm

Resistance tolerance: ±20%

Load resistance: 100 KΩhm min.

Recommended cursor current: <1 µA

Permissible applied voltage: 28VDC max.

Electrical connections: 4 pin connector, Cable (optional)

Displacement speed: < 5 m/s

Mechanical life: 100 million cycles

Case dimensions: 33mmx33mm

Case material: Anodized aluminium

Rod diameter: Ø6 mm

Rod material: Stainless steel

Mechanical fixing: Ball joints on the both side

IP degree: IP 65

Operating temperature: -20ºC ... +80ºC

Storage temperature: -30ºC ... +90ºC

**Cable output (optional)**

![Cable output diagram]

### Additional Information

- **RTM**
- **US** (Linear stroke): 90, 75, 60, 50
- **MS** (Mechanical stroke): 70, 60, 50, 40, 35, 30, 25, 20, 15, 10

**Recommended cursor current**: 1 µA

**Recommended voltage**: 28VDC max.

**Electrical connections**: 4 pin connector, Cable (optional)

**Operating temperature**: -20ºC ... +80ºC

**Storage temperature**: -30ºC ... +90ºC