MDP44 Slider Potentiometer



Features

- High Measuring Accuracy
- Measurement Range of 75 to 2500mm
- Compact and Rugged Model
- Wide Range of Applications
- Low Static and Thermal Errors
- Suitable for Static Measurement



Description

MDP44 series with slider potentiometer allows a much longer range of up to 2500mm in a compact construction. It is a rugged potentiometer based displacement sensor suitable for static measurement in harsh environments. This compact displacement sensor offers great flexibility and reliability for a wide range of applications with highly competitive pricing.

MDP44 is available in measuring ranges from 75 to 2500mm with a Voltage output, relative to supplied input voltage. The grooves in the side of the body provide flexible mounting options in many applications. Standard Nonlinearity is $\pm 0.1\%$ FS for range of 75-2500mm. The robust construction of MDP44 with its high performance makes it ideal for demanding long term applications.

Applications

- Automation applications
- Hydraulic cylinder positioning
- Construction and mining industry
- Aerospace, automotive and rail applications
- Presses
- Industrial machinery positioning
- Valve position control
- Inspection and quality control systems

Technical Specifications

- Ranges: 75 to 2500mm
- Input voltage:

5-12VDC for range: 75 - 400mm 5-36VDC for range: 500 -2500mm

- Operating current: ≤10mA
- Output: Nearly same as input voltage
- Maximum operating speed: 10m/s
- Linearity:±0.1% FS for range 75-2500mm
- Repeatability: ≤ 0.01mm
- Shock rating: 50g

- Operating temp. range: -60 to +100°C
- Temp. coefficient of span: ≤ 1.5ppm FS/°C
- Relative humidity: 90%, no condensation
- **Resistance:** 5kΩ ±10% for range < 600mm

10kΩ ±10% for 600≤ range <1000mm 20kΩ ±10% for range ≥1000mm

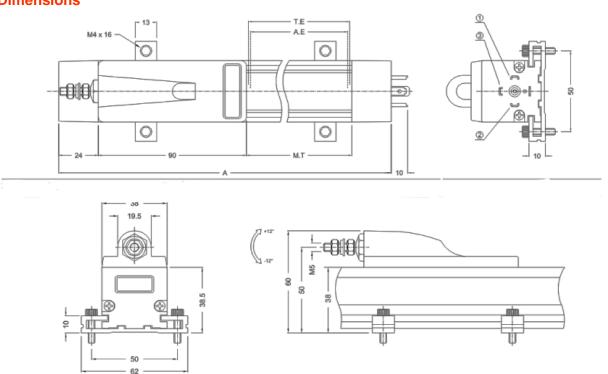
- Electrical connection: DIN connection,
- Body material: Aluminium
- Vibration rating: 20g
- Protection level: IP54

MDP44

Slider Potentiometer



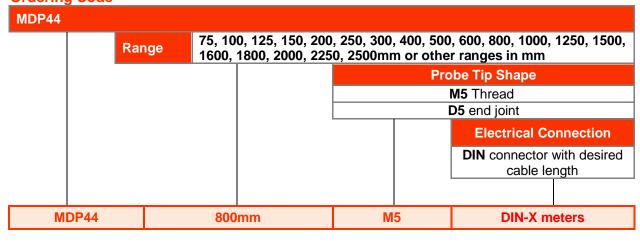
Dimensions



MDP44 with moving slider

Definition	Size (mm)
Range	Selectable based on ordering table (below table)
Mechanical stroke	Range +7mm
Total Body Length (A)	Range + 80mm

Ordering Code



Note: (1) All specifications are subject to change without prior notice (2) Please mention the required cable length

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