

# Displacement encoder MLO-POT-450-TLF

Part number: 152628

FESTO



 General operating condition

## Data sheet

| Feature                                     | Value   |
|---|---|
| CE marking (see declaration of conformity)  | As per EU EMC directive                                   |
| Measuring principle of linear potentiometer | Analog  |
| Ambient temperature                         | -30 °C ... 100 °C   |
| Recommended contact current                 | <1 µA   |
| Max. short-time slider current              | 10000 µA  |
| Max. travel speed                           | 10 m/s  |
| Max. travel acceleration                    | 200 m/s <sup>2</sup>                                      |
| Displacement resolution                     | 0.01 mm   |
| Independent linearity                       | 0.05%   |
| Temperature coefficient                     | 5 ppm/K   |
| Stroke                                      | 450 mm  |
| Output signal                               | Analog  |
| Connection resistance                       | 5 kOhm  |
| Connection resistance tolerance             | 20 %  |
| Nominal operating voltage DC                | 10 V  |
| Max. operating voltage DC                   | 42 V  |
| Permissible voltage fluctuations            | <1%   |
| Max. current consumption                    | 4 mA  |
| Electrical connection                       | Plug<br>As per DIN 43650<br>Rectangular design            |
| Structural design                           | With cover strip<br>With sliding carriage<br>Open profile |
| Coupling parallel quick coupling            | ± 1.5 mm  |
| Moment compensator angular offset           | ±1°   |
| Mounting position                           | Any   |
| Product weight                              | 1200 g  |
| Housing material                            | Anodized  |
| Covering material                           | Steel   |
| Slide carriage housing material             | Die-cast aluminum<br>Polymer                              |
| Slide carriage coupling material            | Steel   |
| Cover material                              | Polymer   |
| Material of assembly brackets               | PEI   |
| Degree of protection at top                 | As per IEC 60529  |
| Bottom degree of protection                 | As per IEC 60529  |

| <b>Feature</b>                                      | <b>Value</b>                   |
|---|--------------------------------|
| Vibration resistance to DIN/IEC 68 Part 2-6         | Tested as per severity level 2 |
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested as per severity level 2 |
| LABS (PWIS) conformity                              | VDMA24364-B2-L                 |