

# 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                       | 4-pin<br>Form A<br>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                                                  |

| Feature                                             | Value                          |
|-----------------------------------------------------|--------------------------------|
| Bottom degree of protection                         | as per IEC 60529               |
| 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                 |