

# Displacement encoder MME-MTS-1250-TLF-AIF

Part number: 178302

**FESTO**



## Data sheet

| Feature                                      | Value                                                 |
|----------------------------------------------|-------------------------------------------------------|
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| Measuring principle of linear potentiometer  | digital                                               |
| Ambient temperature                          | -40 °C...75 °C                                        |
| Max. travel speed                            | 10 m/s                                                |
| Max. travel acceleration                     | 200 m/s <sup>2</sup>                                  |
| Displacement resolution                      | 0.01 mm                                               |
| Independent linearity                        | 0.02%<br>At least ± 50 µm                             |
| Temperature coefficient                      | 15 ppm/K                                              |
| Stroke                                       | 1250 mm                                               |
| Output signal                                | CAN protocol type SPC-AIF                             |
| Nominal operating voltage DC                 | 24 V                                                  |
| Permissible voltage fluctuations             | -15% / +20%                                           |
| Max. current consumption                     | 90 mA                                                 |
| Electrical connection                        | 6-pin<br>Plug<br>As per DIN 45322<br>Round design     |
| Structural design                            | Closed profile<br>With sliding carriage               |
| Coupling parallel quick coupling             | ± 1.5 mm                                              |
| Moment compensator angular offset            | ±1°                                                   |
| Mounting position                            | Any                                                   |
| Product weight                               | 1850 g                                                |
| Housing material                             | Wrought aluminum alloy<br>Anodized                    |
| Slide carriage housing material              | PBT-reinforced<br>Permanent Magnet                    |
| Slide carriage coupling material             | Steel                                                 |
| Cover material                               | Die-cast aluminum<br>Painted                          |

| Feature                                             | Value                          |
|-----------------------------------------------------|--------------------------------|
| Material of assembly brackets                       | PEI                            |
| Degree of protection                                | IP65<br>As per IEC 60529       |
| Vibration resistance to DIN/IEC 68 Part 2-6         | Tested as per severity level 1 |
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested as per severity level 1 |
| LABS (PWIS) conformity                              | VDMA24364-B2-L                 |