

# Displacement encoder MME-MTS-1000-TLF-AIF

Part number: 178303

**FESTO**



 [General operating condition](#)

## 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 ± 50µm                             |
| Temperature coefficient                             | 15 ppm/K                                              |
| Stroke                                              | 1000 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                                      | 1550 g                                                |
| Housing material                                    | Anodized                                              |
| Slide carriage housing material                     | PBT-reinforced<br>Permanent magnet                    |
| Slide carriage coupling material                    | Steel                                                 |
| Cover material                                      | Die-cast aluminum<br>Painted                          |
| 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                        |

| Feature                | Value          |
|------------------------|----------------|
| LABS (PWIS) conformity | VDMA24364-B2-L |