

# Displacement encoder MME-MTS-300-TLF-AIF

Part number: 178309

**FESTO**



## Data sheet

| Feature                                             | Value                                             |
|-----------------------------------------------------|---------------------------------------------------|
| Type code                                           | MME                                               |
| CE marking (see declaration of conformity)          | As per EU EMC directive                           |
| 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                                              | 300 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 |
| Design                                              | Closed profile<br>with sliding carriage           |
| Coupling parallel quick coupling                    | ± 1.5 mm                                          |
| Moment compensator angular offset                   | ± 1 °                                             |
| Mounting position                                   | Any                                               |
| Product weight                                      | 710 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                      |
| 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                    |