

# displacement encoder

## MME-MTS-1750-TLF-AIF

Part number: 178300

FESTO

With absolute displacement encoder, 1750 mm effective electrical displacement, for axis controller type SPC-200



## Data sheet

| Feature                                                  | Value                                                           |
|----------------------------------------------------------|-----------------------------------------------------------------|
| CE mark (see declaration of conformity)                  | to EU directive for EMC<br>in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity)             | To UK instructions for EMC<br>To UK RoHS instructions           |
| Measuring method: displacement encoder                   | Digital                                                         |
| Ambient temperature                                      | -40 ... 75 °C                                                   |
| Max. travel speed                                        | 10 m/s                                                          |
| Max. travel acceleration                                 | 200 m/s <sup>2</sup>                                            |
| Travel resolution                                        | < 0.01 mm                                                       |
| Independent linearity                                    | 0,02 %<br>At least ± 50 µm                                      |
| Temperature coefficient                                  | 15 ppm/K                                                        |
| Stroke                                                   | 1,750 mm                                                        |
| Output signal                                            | CAN protocol, type SPC-AIF                                      |
| Nominal operating voltage DC                             | 24 V                                                            |
| Permissible voltage fluctuation                          | -15 % / +20 %                                                   |
| Max. current consumption                                 | 90 mA                                                           |
| Electrical connection                                    | 6-pin<br>Plug<br>Per DIN 45322<br>Round design                  |
| Design structure                                         | Closed profile<br>With slide                                    |
| Parallel offset, coupling                                | ± 1,5 mm                                                        |
| Angle offset, driver                                     | ± 1 °                                                           |
| Assembly position                                        | Any                                                             |
| Product weight                                           | 2,450 g                                                         |
| Material housing                                         | Wrought Aluminium alloy<br>Anodised                             |
| Material of sliding carriage housing                     | PBT-reinforced<br>Permanent magnet                              |
| Material of sliding carriage coupling                    | Steel                                                           |
| Material cover                                           | Aluminium die cast<br>Painted                                   |
| Material of assembly brackets                            | PEI                                                             |
| Protection class                                         | IP65<br>to IEC 60529                                            |
| Vibration resistance per DIN/IEC 68, parts 2 - 6         | Tested in accordance with severity level 1                      |
| Continuous shock resistance per DIN/IEC 68, parts 2 - 82 | Tested in accordance with severity level 1                      |
| PWIS conformity                                          | VDMA24364-B2-L                                                  |