

# Position transmitter SDAP-MHS-M160-1L-A-E-0.3-M8

Part number: 8050122

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value   |
|---|---|
| Design  | For T-slot  |
| Symbol  | 00995389  |
| Certification   | RCM compliance mark<br>c UL us - Listed (OL)  |
| 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 RoHS instructions   |
| Note on materials                                     | RoHS compliant<br>Halogen-free  |
| Measured variable                                     | Position  |
| Measuring principle                                   | Magnetic Hall   |
| Sensing range   | 0 µm ... 160000 µm  |
| Ambient temperature                                   | -25 °C ... 70 °C  |
| Typical sampling interval                             | 1 ms  |
| Max. travel speed                                     | 3 m/s   |
| Displacement resolution                               | 0.05 mm   |
| Analog output   | 4 - 20 mA   |
| Sensitivity   | 0.1 mA/mm   |
| Typical linearity error                               | ±0.25 mm  |
| Max. load resistance of current output                | 500 Ohm   |
| Short-circuit protection                              | Yes   |
| Overload protection                                   | Available   |
| DC operating voltage range                            | 15 V ... 30 V   |
| Residual ripple                                       | 10%   |
| Reverse polarity protection                           | for all electrical connections  |
| Electrical connection 1, connection type              | Cable with plug   |
| Electrical connection 1, connection technology        | M8x1 A-coded as per EN 61076-2-104  |
| Electrical connection 1, number of pins/wires         | 4   |
| Electrical connection 1, type of mounting             | Screw-type lock   |
| Electrical connection for input 1, connection pattern | 00991171  |
| Connection outlet orientation                         | Longitudinal  |
| Material of pin contacts                              | Gold-plated copper alloy  |
| Connector cable test conditions                       | Flexural strength: as per Festo standard<br>Torsion resistance: > 300,000 cycles, ±270°/0.1 m<br>Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length  | 0.3 m   |
| Cable characteristic                                  | suitable for energy chains/robot applications   |

| <b>Feature</b>  | <b>Value</b>   |
|---|--|
| Color cable sheath  | Gray   |
| Material of cable sheath                                  | TPE-U(PUR)   |
| Type of mounting  | Screwed on<br>Can be inserted in slot from above                   |
| Mounting position   | Any  |
| Product weight  | 35 g   |
| Housing material  | Polyester<br>high-alloy stainless steel                            |
| Material of union nut                                     | Brass, nickel-plated   |
| Film material   | Polyester  |
| Ready status indication                                   | Green LED  |
| Status indicator  | Red LED  |
| Ambient temperature with flexible cable installation      | -20 °C ... 70 °C   |
| Degree of protection                                      | IP65<br>IP68   |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L   |
| Suitability for the production of Li-ion batteries        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1                                   |