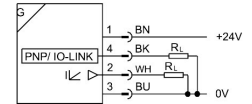


Position transmitter SDAP-MHS-M50-1L-A-E-0.3-M8

Part number: 8050120

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|---|
| Design | for T-slot |
| Symbol | 00995389 |
| Certification | RCM compliance mark c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Note on materials | RoHS-compliant Halogen-free |
| Measured variable | Position |
| Measuring principle | Magnetic Hall |
| Sensing range | 0 µm ... 50000 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 | 0.32 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 | Copper alloy, gold-plated |
| Connector cable test conditions | Flexural strength: as per Festo standard Torsion resistance: > 300,000 cycles, ±270°/0.1 m Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length | 0.3 m |
| Cable characteristic | suitable for energy chains/robot applications |

| Feature | Value |
|---|--|
| Color cable sheath | Gray |
| Material of cable sheath | TPE-U(PUR) |
| Type of mounting | Screwed tightly Can be inserted in slot from above |
| Mounting position | Any |
| Product weight | 19 g |
| Housing material | Polyester High-alloy stainless steel |
| Material of union nut | Brass, nickel-plated |
| Film material | Polyester |
| Ready status indication | LED green |
| Status indicator | LED red |
| Ambient temperature with flexible cable installation | -20 °C ... 70 °C |
| Degree of protection | IP65 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 |