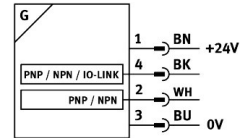


Position transmitter SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8

Part number: 8063974

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|---|
| Design | For T-slot |
| Symbol | 00995894 |
| 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 |
| Certificate issuing authority | UL E232949 |
| Note on materials | RoHS compliant Halogen-free |
| Application note | https://www.festo.com/Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Magnetic Hall |
| Sensing range | ≤52000 μm |
| Ambient temperature | -40 °C ... 80 °C |
| Typical sampling interval | 2 ms |
| Max. travel speed | 3 m/s |
| Displacement resolution | ≤0.02 mm |
| Repetition accuracy | 0.2 mm |
| Switching output | 2x PNP or 2x NPN configurable |
| Switching element function | N/C contact/N/O contact, switchable |
| On time | <4 ms |
| Switch-off time | <4 ms |
| Max. switching frequency | 125 Hz |
| Max. switching output voltage DC | 30 V |
| Max. output current | 50 mA |
| Max. switching capacity DC | 1.5 W |
| Voltage drop | <0.5 V |
| Typical linearity error | ±1 mm |
| Short-circuit protection | Yes |
| Overload protection | Available |
| Protocol | I-Port IO-Link® |
| IO-Link®, protocol version | Device V 1.1 |
| IO-Link®, profile | Smart sensor profile |

| Feature | Value |
|---|---|
| IO-Link®, function classes | Process data variable (PDV) Identification Diagnostics Teach channel Switching signal channel (SSC) |
| IO-Link®, communication mode | COM2 (38,4 kBd) |
| IO-Link®, SIO mode support | Yes |
| IO-Link®, port class | A |
| IO-Link®, process data width IN | 2 Byte |
| IO-Link®, process data content IN | 12 bit PDV (position measurement) 4 bit SSC (switching signal) |
| IO-Link®, minimum cycle time | 2.5 ms |
| DC operating voltage range | 10 V ... 30 V |
| Residual ripple | 10% |
| Idle current | <12 mA |
| 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 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 |
| Color cable sheath | Gray |
| Material of cable sheath | TPE-U(PUR) |
| Type of mounting | Screwed on Can be inserted in slot from above |
| Mounting position | Any |
| Product weight | 9.5 g |
| Housing material | high-alloy stainless steel |
| Material of union nut | Brass, nickel-plated |
| Switching status indication | Yellow LED |
| Status indicator | Red LED |
| Setting options | IO-Link® Capacitive key |
| 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 |