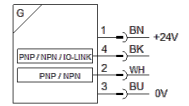
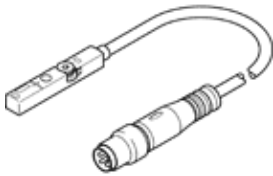


Position transmitter SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8

Part number: 8063974

FESTO



Data sheet

| Feature | Value |
|--|---|
| Design | for T-slot |
| Authorization | RCM Mark c UL us - Listed (OL) |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| KC mark | KC-EMV |
| Certificate issuing department | UL E232949 |
| Materials note | Conforms to RoHS Halogen-free |
| Instructions for use | Link: Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Hall magnetic |
| Sensing range | ≤ 52,000 μm |
| Ambient temperature | -40 ... 80 °C |
| Typical scanning interval | 2 ms |
| Max. travel speed | 3 m/s |
| Travel resolution | ≤ 0.02 mm |
| Repetition accuracy | 0.2 mm |
| Switch output | 2x PNP or 2x NPN, adjustable |
| Switching element function | N/C or N/O contact, switchable |
| Switch-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. contact rating DC | 1.5 W |
| Voltage drop | < 0.5 V |
| Typical linearity error in ± mm | ±1 mm |
| Short circuit strength | Yes |
| Overload withstand capability | Available |
| Protocol | I-Port IO-Link |
| IO-Link, protocol | Device V 1.1 |
| IO-Link, profile | Smart sensor profile |
| IO-Link, function classes | Process Data Variable (PDV) Identification diagnosis Teach channel Switching signal channel (SSC) |
| IO-Link, communication mode | COM2 (38,4 kBaud) |
| IO-Link, SIO mode support | Yes |
| IO-Link, port type | A |
| IO-Link, process data width IN | 2 Byte |
| IO-Link, process data content IN | 12 bit PDV (position measured value) |

| Feature | Value |
|--|---|
| | 4 bit SSC (switching signal) |
| IO-Link, minimum cycle time | 2,5 ms |
| Operating voltage range DC | 10 ... 30 V |
| Residual ripple | 10 % |
| Idle current | < 12 mA |
| Polarity protected | for all electrical connections |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connection technology | M8x1, A-coded to EN 61076-2-104 |
| Electrical connection 1, number of pins/wires | 4 |
| Electrical connection 1, type of mounting | Screw lock |
| Connector exit direction | axial |
| Material electrical contact | Gold-plated copper alloy |
| Test conditions of cable | Bending strength according to 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 attribute | Suitable for energy chains/robot applications |
| Cable sheath color | Grey |
| Material cable sheath | TPE-U(PUR) |
| Mounting type | Tightened Insertable in slot from above |
| Assembly position | Any |
| Product weight | 9.5 g |
| Material housing | PA-reinforced High alloy steel, non-corrosive |
| Material of union nut | Nickel-plated brass |
| Operating status display | Yellow LED |
| Status display | Red LED |
| Setting options | IO-Link Capacitive pushbutton |
| Ambient temperature with flexible cable installation | -20 ... 70 °C |
| Protection class | IP65 IP68 |
| PWIS conformity | VDMA24364-B2-L |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 4 |