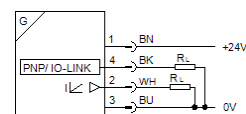
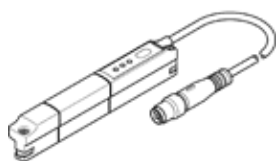


Position transmitter SDAT-MHS-M80-1L-SA-E-0.3-M8

Part number: 1531266

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 |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC |
| KC mark | KC-EMV |
| Materials note | Conforms to RoHS Halogen-free |
| Instructions for use | Link: Drive-Sensor-Overview |
| Measured variable | Position |
| Measuring principle | Hall magnetic |
| Sensing range | 0 ... 80 mm |
| Ambient temperature | -25 ... 70 °C |
| Typical scanning interval | 1 ms |
| Max. travel speed | 3 m/s |
| Travel resolution | 0.05 mm |
| Repetition accuracy | 0.1 mm |
| Switch output | PNP |
| Switching element function | N/C or N/O contact, switchable |
| Switch-on time | < 2 ms |
| Switch-off time | < 2 ms |
| Max. switching frequency | 1 kHz |
| Max. output current | 100 mA |
| Max. contact rating DC | 2.7 W |
| Voltage drop | 2.5 V |
| Analog output | 4 - 20 mA |
| Sensitivity, current output | 0.2 mA/mm |
| Typical linearity error in ± mm | ±0,25 mm |
| Max. load resistance, current output | 500 Ohm |
| 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 | Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel |
| IO-Link, communication mode | COM3 (230.4 kbd) |
| 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) 4 bit BDC (position monitoring) |

| Feature | Value |
|--|---|
| IO-Link, minimum cycle time | 1 ms |
| Operating voltage range DC | 15 ... 30 V |
| Residual ripple | 10 % |
| 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 | Copper alloy Gold plated |
| 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 | 23 g |
| Material housing | Nickel-plated brass PA-reinforced Polyester High alloy steel, non-corrosive |
| Material of union nut | Nickel-plated brass |
| Material foil | Polyester |
| Ready status display | Green LED |
| Operating status display | Yellow LED |
| Status display | Red LED |
| Setting options | IO-Link 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 |