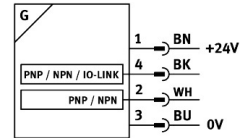


Position transmitter SDAC-MHS-M30-1L-PNLK-PN-E-0.3-M8

Part number: 8128404

FESTO



Data sheet

[General operating condition](#)

| Feature | Value |
|--|--|
| Design | For C-slot |
| Symbol | 00995894 |
| Approval | RCM trademark |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Note on materials | RoHS-compliant Free of halogen |
| Instructions on use | Support / actuator-sensor overview "The right sensor for the actuator" |
| Measured variable | Position |
| Measuring principle | Magnetic Hall |
| Sensing range | 35000 µm |
| Ambient temperature | -40 °C ... 80 °C |
| Typical sampling interval | 2 ms |
| Max. travel speed | ≥4 m/s |
| Displacement resolution | 0.012 mm |
| Repetition accuracy | 0.2 mm |
| Switching output | 2x PNP or 2x NPN adjustable |
| Switching element function | N/C or N/O contact, switchable |
| Switch-on time | ≤3 ms |
| Switch-off time | ≤3 ms |
| Max. switching frequency | 166 Hz |
| Max. switching output voltage DC | 30 V |
| Max. output current | 50 mA |
| Max. switching capacity DC | 1.5 W |
| Voltage drop | ≤0.4 V |
| Typical linearity error | ±2 mm |
| Short circuit current rating | yes |
| Overload protection | Available |
| Protocol | IO-Link® |
| IO-Link, revision ID | V1.1 |
| IO-Link, device profile | Function locator Identification and diagnostics Measuring and switching sensor Smart sensor - SSP 4.1.1 |
| IO-Link, transmission rate | COM2 |

| Feature | Value |
|--|--|
| IO-Link, SIO-Mode support | Yes |
| IO-Link, port type | Class A |
| IO-Link, process data length input | 32 bit |
| IO-Link, Process data content IN | Position value 16-bit MDC Monitoring 4-bit SSC |
| IO-Link, minimum cycle time | 3 ms |
| Operational voltage range DC | 10 V ... 30 V |
| Residual ripple | 10% |
| No-load supply current | <19 mA |
| Reverse polarity protection | yes |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connector system | M8x1, A-coded, to EN 61076-2-104 |
| Electrical connection 1, number of connections/cores | 4 |
| Electrical connection 1, type of mounting | Screw-type lock with hexagon A/F 9 mm and longitudinal knurl |
| Electrical connection 1, connection pattern | 00991171 |
| Connection outlet orientation | In-line |
| Material electrical contact | Brass, nickel-plated and gold-plated |
| Test conditions cable | Bending strength: to Festo standard Torsional strength: > 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 |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Type of mounting | Screw-clamped Insertable in the slot lengthwise |
| Mounting position | optional |
| Product weight | 9 g |
| Material housing | High-alloy stainless steel |
| Material union nut | Nickel-plated brass |
| Switching status indication | Yellow LED |
| Status indication | Red LED |
| Setting options | IO-Link® Capacitive pushbutton |
| Ambient temperature with moving cable | -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 according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class | Class 4 according to ISO 14644-1 |