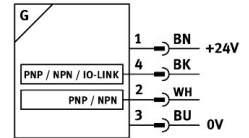


# Position transmitter SDAC-MHS-M30-1L-PNLK-PN-E-0.3-M8

Part number: 8128404

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                      | Value  |
|--|--|
| Design                                       | For C-slot   |
| Symbol                                       | 00995894   |
| Approval                                     | RCM  |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions  |
| Note on materials                            | RoHS compliant<br>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                   | NC or NO, 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<br>Identification and diagnostics<br>Measuring and switching sensor<br>Smart Sensor - SSP 4.1.1 |
| IO-Link, transmission rate                   | COM2   |
| IO-Link, SIO-Mode support                    | Yes  |

| Feature   | Value  |
|---|--|
| 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<br>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<br>Torsional strength: > 300,000 cycles, ±270°/0.1 m<br>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<br>Inserted into the slot lengthwise   |
| Mounting position   | Any  |
| Product weight  | 9 g  |
| Material housing  | High-alloy stainless steel   |
| Material union nut  | Nickel-plated brass  |
| Switching status indication                               | Yellow LED   |
| Status indication   | LED red  |
| Setting options   | IO-Link®<br>Capacitive pushbutton  |
| Ambient temperature with moving cable                     | -20 °C ... 70 °C   |
| Degree of protection                                      | IP65<br>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   |