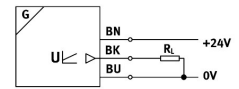
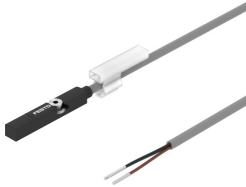


Position transmitter SMAT-8M-U-E-2,5-OE

Part number: 8200152

FESTO



[General operating condition](#)

Data sheet

| Feature | Value |
|--|--|
| Design | For T-slot |
| Symbol | 00997502 |
| Approval | RCM c UL us - Listed (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Certificate issuing authority | UL E232949 |
| Note on materials | RoHS compliant Free of halogen |
| Instructions on use | 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 |
| Analogue output | 0 - 10 V |
| Typical linearity error | ±1 mm |
| Short circuit current rating | Yes |
| Overload protection | Available |
| Output signal | Analogue |
| Operational voltage range DC | 15 V ... 30 V |
| Residual ripple | 10% |
| No-load supply current | <12 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Cable |
| Electrical connection 1, connector system | Open end |
| Electrical connection 1, number of connections/cores | 3 |
| Connection outlet orientation | In-line |
| 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 | 2.5 m |
| Cable characteristic | Suitable for energy chains/robot applications |

| Feature | Value |
|---|--|
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PUR) |
| Type of mounting | Screw-clamped Insertable in the slot from above |
| Mounting position | Any |
| Product weight | 29 g |
| Material housing | High-alloy stainless steel |
| Status indication | Red, green LED |
| 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 with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Element installed statically, no meaningful evaluation possible according to ISO 14644-1 |