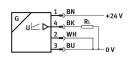
Position transmitter SMAT-8M-U-E-0,3-M8D Part number: 553744







General operating condition

Data sheet

Design For T-slot Symbol 00992260 Approval RCM trademark c UL us listed (OL) CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive In accordance with	
Approval RCM trademark c UL us listed (OL) CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive CE marking (see declaration of conformity) To UK instructions for EMC 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 Sensing range Ambient temperature 40 °C 80 °C Typical sampling interval 2 ms Max. travel speed 3 m/s Displacement resolution Repetition accuracy 0.2 mm Analogue output Typical linearity error \$\frac{1}{2}\$ In mm Short circuit current rating Overload protection Available Output signal Operational voltage range DC Residual ripple No-load supply current Reverse polarity protection For all electrical connections	
C UL us listed (OL) CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive CE marking (see declaration of conformity) To UK RoHS instructions for EMC 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 Abbient temperature 740 °C 80 °C Typical sampling interval 2 ms Max. travel speed 3 m/s Displacement resolution Repetition accuracy Analogue output 70 - 10 V Typical linearity error \$\frac{1}{2}\$ 1 mm Short circuit current rating Ves Overload protection Available Output signal Operational voltage range DC Residual ripple No-load supply current 412 mA Reverse polarity protection For all electrical connections	
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Residual ripple 10 % No-load supply current <12 mA Reverse polarity protection For all electrical connections	
No-load supply current <12 mA Reverse polarity protection For all electrical connections	
Reverse polarity protection For all electrical connections	
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	
Electrical connection 1, connection pattern 00991171	
Connection outlet orientation In-line	
Material electrical contact Gold-plated copper alloy	

Feature	Value
Test conditions cable	Bending strength: to Festo standard Torsion 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 from above
Mounting position	optional
Product weight	9.5 g
Material housing	PA-reinforced High-alloy stainless steel
Material union nut	Nickel-plated brass
Status indication	LED red, green
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	Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1