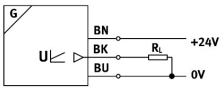
Position transmitter
SMAT-8M-U-E-2,5-OE

Part number: 8200152





General operating condition
Position transmitter
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Data sheet

Feature	Value
Design	For T-slot
Symbol	00997502
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	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

Feature	Value
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	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