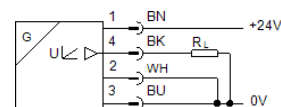
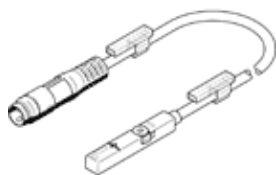


position transmitter SMAT-8M-U-E-0,3-M8D

Part number: 553744

FESTO

With integrated signal processing, analogue electrical outputs and visual operational state indication. Is mounted in the T slot.



Data sheet

Feature	Value
Design	for T-slot
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
Certificate issuing department	UL E232949
Materials note	Conforms to RoHS Halogen-free
Instructions for use	Link: Drive-Sensor-Overview
Measured variable	Position
Measuring principle	Hall magnetic
Sensing range	$\leq 52,000 \mu\text{m}$
Ambient temperature	$-40 \dots 80 \text{ }^\circ\text{C}$
Typical scanning interval	2 ms
Max. travel speed	3 m/s
Travel resolution	$\leq 0.02 \text{ mm}$
Repetition accuracy	0.2 mm
Analogue output	0 - 10 V
Typical linearity error in $\pm \text{mm}$	$\pm 1 \text{ mm}$
Short circuit strength	Yes
Overload withstand capability	Available
Output signal	Analogue
Operating voltage range DC	15 ... 30 V
Residual ripple	10 %
Idle current	$< 12 \text{ mA}$
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M8x1, A-coded to EN 61076-2-104
Electrical connection 1, number of pins/wires	4
Electrical connection 1, type of mounting	Screw lock
Connector exit direction	axial
Material electrical contact	Gold-plated copper alloy
Test conditions of cable	Bending strength according to Festo standard Torsion resistance: $> 300,000$ cycles, $\pm 270^\circ/0.1 \text{ m}$ Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	0.3 m
Cable attribute	Suitable for energy chains/robot applications
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened

Feature	Value
	Insertable in slot from above
Assembly position	Any
Product weight	9.5 g
Material housing	PA-reinforced High alloy steel, non-corrosive
Material of union nut	Nickel-plated brass
Status display	LED red, green
Ambient temperature with flexible cable installation	-20 ... 70 °C
Protection class	IP65 IP68
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 4