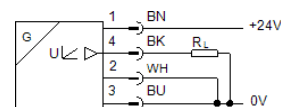
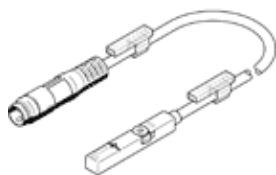


Position transmitter SMAT-8M-U-E-0,3-M8D

Part number: 553744

FESTO

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



Data sheet

Feature	Value
Design	for T-slot
Authorization	RCM Mark c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline 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
Analog 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	Analog
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 color	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