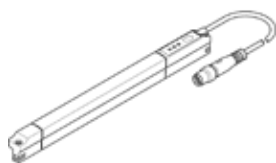


# position transmitter SDAT-MHS-M160-1L-SV-E-0.3-M8

Part number: 8115398

FESTO



## 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
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC mark	KC-EMV
Materials note	Conforms to RoHS Halogen-free
Instructions for use	Link: Drive-Sensor-Overview
Measured variable	Position
Measuring principle	Hall magnetic
Sensing range	0 ... 160 mm
Ambient temperature	-25 ... 70 °C
Typical scanning interval	1 ms
Max. travel speed	3 m/s
Travel resolution	0.05 mm
Repetition accuracy	0.1 mm
Switch output	PNP
Switching element function	N/C or N/O contact, switchable
Switch-on time	< 2 ms
Switch-off time	< 2 ms
Max. switching frequency	1 kHz
Max. output current	100 mA
Max. contact rating DC	2.7 W
Voltage drop	2.5 V
Analogue output	0 - 10 V
Sensitivity, voltage output	0.056 V/mm
Typical linearity error in ± mm	±0,25 mm
Min. load resistance, voltage output	20 kOhm
Short circuit strength	Yes
Overload withstand capability	Available
Protocol	I-Port IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, SIO mode support	Yes
IO-Link, port type	A
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	12 bit PDV (position measured value) 4 bit BDC (position monitoring)

<b>Feature</b>	<b>Value</b>
IO-Link, minimum cycle time	1 ms
Operating voltage range DC	15 ... 30 V
Residual ripple	10 %
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	Copper alloy Gold plated
Test conditions of cable	Bending strength according to Festo standard Torsion resistance: > 300,000 cycles, ±270°/0.1 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 Insertable in slot from above
Assembly position	Any
Product weight	35 g
Material housing	Nickel-plated brass PA-reinforced Polyester High alloy steel, non-corrosive
Material of union nut	Nickel-plated brass
Material foil	Polyester
Ready status display	Green LED
Operating status display	Yellow LED
Status display	Red LED
Setting options	IO-Link Pushbutton
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