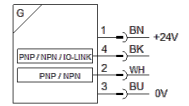
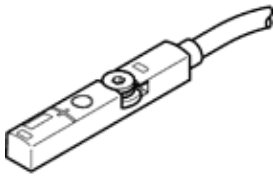


# Position transmitter SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE

Part number: 8063975

FESTO



## 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
Switch output	2x PNP or 2x NPN, adjustable
Switching element function	N/C or N/O contact, switchable
Switch-on time	$< 4 \text{ ms}$
Switch-off time	$< 4 \text{ ms}$
Max. switching frequency	125 Hz
Max. switching output voltage DC	30 V
Max. output current	50 mA
Max. contact rating DC	1.5 W
Voltage drop	$< 0.5 \text{ V}$
Typical linearity error in $\pm \text{ mm}$	$\pm 1 \text{ mm}$
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	Process Data Variable (PDV) Identification diagnosis Teach channel Switching signal channel (SSC)
IO-Link, communication mode	COM2 (38,4 kBaud)
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)

<b>Feature</b>	<b>Value</b>
	4 bit SSC (switching signal)
IO-Link, minimum cycle time	2,5 ms
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
Idle current	< 12 mA
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	4
Connector exit direction	axial
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	2.5 m
Cable attribute	Suitable for energy chains/robot applications
Cable sheath color	Grey
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened Insertable in slot from above
Assembly position	Any
Product weight	27 g
Material housing	PA-reinforced High alloy steel, non-corrosive
Operating status display	Yellow LED
Status display	Red LED
Setting options	IO-Link Capacitive 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