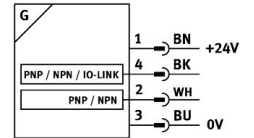


# Position transmitter SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8

Part number: 8063974

**FESTO**



## Data sheet

Feature	Value
Design	For T-slot
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	RoHS-compliant Free of halogen
Instructions on use	<a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a>
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	52 mm
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
Switching output	2x PNP or 2x NPN adjustable
Switching element function	N/C or N/O contact, switchable
Switch-on time	4 ms
Switch-off time	4 ms
Max. switching frequency	125 Hz
Max. switching output voltage DC	30 V
Max. output current	50 mA
Max. switching capacity DC	1.5 W
Voltage drop	0.5 V
Typical linearity error	± 1 mm
Short circuit current rating	yes
Overload protection	Available
Protocol	I-Port IO-Link®

Feature	Value
IO-Link, Protocol version	Device V 1.1
IO-Link, Profile	Smart sensor profile
IO-Link, Function classes	Process data variable (PDV) Identification Diagnostics Teach channel Switching signal channel (SSC)
IO-Link, communication mode	COM2 (38.4 kBaud)
IO-Link, SIO-Mode support	Yes
IO-Link, Port class	A
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	12 bit PDV (measured position value) 4 bit SSC (Switching Signal)
IO-Link, Min. cycle time	2.5 ms
Operational voltage range DC	10 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 with plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4
Electrical connection 1, type of mounting	Screw-type lock
Connection outlet orientation	In-line
Material electrical contact	Gold-plated copper alloy
Test conditions cable	Bending strength: to Festo standard Torsional strength: > 300,000 cycles, $\pm 270^\circ/0.1$ m Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	0.3 m
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	optional
Product weight	9.5 g
Material housing	PA-reinforced High-alloy stainless steel
Material union nut	Nickel-plated brass
Switching status indication	Yellow LED
Status indication	Red LED
Setting options	IO-Link® Capacitive pushbutton
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	Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1