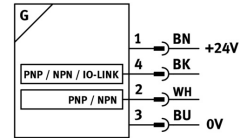


# Position transmitter

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

Part number: 8063974

FESTO



## Data sheet

Feature	Value
Type code	SDAS
Design	for T-slot
Symbol	00995894
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive
KC characters	KC EMC
Certificate issuing authority	UL E232949
Note on materials	RoHS-compliant Halogen-free
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	≤52000 μm
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 contact/N/O contact switchable
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 in ± mm	±1 mm
Short-circuit protection	yes
Overload protection	Available
Protocol	I-Port IO-Link®
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile	Smart sensor profile

Feature	Value
IO-Link®, function classes	Process data variable (PDV) Identification Diagnostics Teach channel Switching signal channel (SSC)
IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, SIO mode support	Yes
IO-Link®, port class	A
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	12 bit PDV (position measurement) 4 bit SSC (switching signal)
IO-Link®, minimum cycle time	2.5 ms
DC operating voltage range	10 V ... 30 V
Residual ripple	10 %
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	4
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection for input 1, connection pattern	00991171
Connection outlet orientation	Longitudinal
Material of pin contacts	Copper alloy, gold-plated
Connector cable test conditions	Flexural strength: as per Festo standard Cable chain: 5 million cycles, bending radius 28 mm Torsional resistance: > 300 000 cycles, ±270°/0.1 m
Cable length	0.3 m
Cable characteristic	Suitability for energy chains/robot applications
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
Type of mounting	Screwed tightly Can be inserted in slot from above
Mounting position	Any
Product weight	9.5 g
Housing material	PA-reinforced High-alloy stainless steel
Material of union nut	Brass, nickel-plated
Switching status indication	LED yellow
Status indicator	LED red
Setting options	IO-Link® Capacitive pushbutton
Ambient temperature with flexible cable installation	-20 °C ... 70 °C
Degree of protection	IP65 IP68