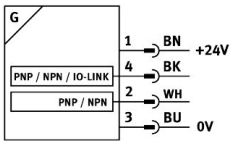
Position transmitter
SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE

Part number: 8063975





General operating condition

Position transmitter

Product details

Category page

Data sheet

Feature	Value
Design	For T-slot
Symbol	00995894
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	Free of halogen
Instructions on use	https://www.festo.com/Drive-Sensor-Overview
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	NC or NO, 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®
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 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
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	4
Connection outlet orientation	In-line
Test conditions cable	Bending strength: to Festo standard Torsional strength: › 300,000 cycles, ±270°/0.1 m Energy chain: › 5 million cycles, bending radius 28 mm
Cable length	2.5 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	Any
Product weight	27 g
Material housing	High-alloy stainless steel
Switching status indication	Yellow LED
Status indication	LED red
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	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1