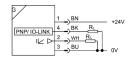
Position transmitter SDAT-MHS-M125-1L-SA-E-0.3-M8

FESTO

Part number: 1531268





General operating condition

Data sheet

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R c c c c c c c c c c c c c c c c c c c	or T-slot
c cing (see declaration of conformity) Arking (see declaration of conformity) To materials R H cion note de variable	0995389
arking (see declaration of conformity) materials R H tion note ed variable	CCM compliance mark UL us - Listed (OL)
materials R H tion note h ed variable P	s per EU EMC directive
Hicion note hickness per	o UK instructions for EMC
ed variable P	oHS-compliant Ialogen-free
	ttps://www.festo.com/Drive-Sensor-Overview
	Position
ing principle N	Magnetic Hall
range	μm 125000 μm
t temperature -2	25 ℃ 70 ℃
sampling interval 1	ms
vel speed 3	m/s
ement resolution 0	0.05 mm
on accuracy 0	0.1 mm
ng output P	PNP
ng element function N	I/C contact/N/O contact switchable
(2	2 ms
off time < <2	2 ms
ritching frequency 1	000 Hz
tput current 1	00 mA
ritching capacity DC 2	2.7 W
drop 2	2.5 V
output 4	- 20 mA
ity 0	0.128 mA/mm
inearity error ±0	0.25 mm
ad resistance of current output 5	00 Ohm
rcuit protection ye	es
d protection A	wailable
	Port O-Link®
D, protocol version	
D, profile S	Device V 1.1

Feature	Value
IO-Link®, function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link®, communication mode	COM3 (230.4 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 BDC (position monitoring)
IO-Link®, minimum cycle time	1 ms
DC operating voltage range	15 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 Torsion resistance: > 300,000 cycles, ±270°/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
Color cable sheath	Gray
Material of cable sheath	TPE-U(PUR)
Type of mounting	Can be inserted in slot from above
Mounting position	Any
Product weight	30 g
Housing material	Polyester High-alloy stainless steel
Material of union nut	Brass, nickel-plated
Film material	Polyester
Ready status indication	LED green
Switching status indication	LED yellow
Status indicator	LED red
Setting options	IO-Link® Pushbutton
Ambient temperature with flexible cable installation	-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 class	Class 4 according to ISO 14644-1