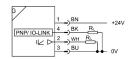
Position transmitter SDAT-MHS-M100-1L-SA-E-0.3-M8

FESTO

Part number: 1531267





General operating condition

Data sheet

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rking (see declaration of conformity) materials Roh Hal on note d variable pos pg principle range 0 µ temperature To U Roh Hal Roh Hal On pos Hotpa	M compliance mark JL us - Listed (OL)
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d variable Pos ng principle Mag range 0 µ temperature -25	HS-compliant Ilogen-free
ng principle Mag range 0 µ temperature -25	tps://www.festo.com/Drive-Sensor-Overview
range 0 μι temperature -25	sition
temperature -25	agnetic Hall
•	um 100000 μm
ampling interval	5 °C 70 °C
	ms
vel speed 3 m	m/s
ment resolution 0.0	05 mm
on accuracy 0.1	1 mm
g output PNF	IP
g element function N/C	C contact/N/O contact switchable
<2 n	ms
ff time < 2 n	ms
tching frequency 100	000 Hz
put current 100	0 mA
tching capacity DC 2.7	7 W
drop 2.5	5 V
utput 4 - 2	20 mA
0.1 ₀	16 mA/mm
nearity error ±0.2	.25 mm
d resistance of current output 500	0 Ohm
cuit protection yes	S
protection Ava	ailable
I-Pc 10-1	Port -Link®
, protocol version Dev	evice V 1.1
, profile Sma	nart sensor profile

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	26 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