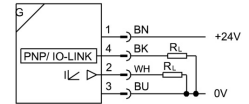


Position transmitter SDAT-MHS-M160-1L-SA-E-0.3-M8

Part number: 1531269

FESTO



Data sheet

Feature	Value
Type code	SDAT
Design	for T-slot
Symbol	00995389
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
KC characters	KC EMC
Note on materials	RoHS-compliant Halogen-free
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	0 µm ... 160000 µm
Ambient temperature	-25 °C ... 70 °C
Typical sampling interval	1 ms
Max. travel speed	3 m/s
Displacement resolution	0.05 mm
Repetition accuracy	0.1 mm
Switching output	PNP
Switching element function	N/C contact/N/O contact switchable
On time	<2 ms
Switch-off time	<2 ms
Max. switching frequency	1000 Hz
Max. output current	100 mA
Max. switching capacity DC	2.7 W
Voltage drop	2.5 V
Analog output	4 - 20 mA
Sensitivity	0.1 mA/mm
Typical linearity error in ± mm	±0.25 mm
Max. load resistance of current output	500 Ohm
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	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 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	35 g
Housing material	Brass, nickel-plated PA-reinforced 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 conformity	VDMA24364-B2-L