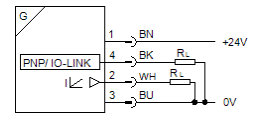
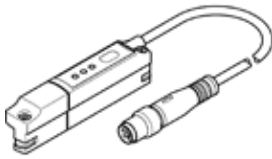


position transmitter
SDAT-MHS-M50-1L-SA-E-0.3-M8
Part number: 1531265

FESTO



Data sheet

Feature	Value
Design	for T-slot
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
Special characteristics	Oil resistant
Materials note	Conforms to RoHS Halogen-free
Measured variable	Position
Measuring principle	Hall magnetic
Sensing range	0 ... 50 mm
Ambient temperature	-25 ... 70 °C
Typical scanning interval	1 ms
Max. travel speed	3 m/s
Travel resolution	0.05 mm
Repetition accuracy	0.1 mm
Switch output	PNP
Switching element function	N/C or N/O contact, switchable
Switch-on time	< 2 ms
Switch-off time	< 2 ms
Max. switching frequency	1 kHz
Max. output current	100 mA
Max. contact rating DC	2.7 W
Voltage drop	2.5 V
Analogue output	4 - 20 mA
Sensitivity, current output	0.32 mA/mm
Typical linearity error in $\pm$ mm	$\pm 0,25$ mm
Max. load resistance, current output	500 Ohm
Short circuit strength	Yes
Overload withstand capability	Available
Protocol	I-Port IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, SIO mode support	Yes
IO-Link, port type	A
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	12 bit PDV (position measured value) 4 bit BDC (position monitoring)
IO-Link, minimum cycle time	1 ms
Operating voltage range DC	15 ... 30 V

Feature	Value
Residual ripple	10 %
Polarity protected	for all electrical connections
Electrical connection	Cable with plug M8 4-pin Turnable threads
Connector exit direction	axial
Material electrical contact	Copper alloy Gold plated
Test conditions of cable	Bending strength according to Festo standard Chain link trunking: 5 million cycles, bending radius 28 mm Torsion resistance: > 300,000 cycles, $\pm 270^\circ/0.1$ m
Cable length	0.3 m
Cable attribute	Energy chain + robot
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)
Mounting type	Tightened Insertable in slot from above
Assembly position	Any
Product weight	19 g
Material housing	Nickel-plated brass PA-reinforced Polyester High alloy steel, non-corrosive
Material of union nut	Nickel-plated brass
Material foil	Polyester
Ready status display	Green LED
Operating status display	Yellow LED
Status display	Red LED
Setting options	IO-Link Pushbutton
Ambient temperature with flexible cable installation	-20 ... 70 °C
Protection class	IP65 IP68