

# Position transmitter SDAP-MHS-M100-1L-A-E-0.3-M8

Part number: 8050121

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Design	For T-slot
Symbol	00995389
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Note on materials	RoHS compliant Free of halogen
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	0 µm ... 100000 µm
Ambient temperature	-25 °C ... 70 °C
Typical sampling interval	1 ms
Max. travel speed	3 m/s
Displacement resolution	0.05 mm
Analogue output	4 - 20 mA
Sensitivity	0.16 mA/mm
Typical linearity error	±0.25 mm
Max. load resistance current output	500 Ohm
Short circuit current rating	Yes
Overload protection	Available
Operational voltage range DC	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, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, connection pattern	00991171
Connection outlet orientation	In-line
Material electrical contact	Gold-plated copper alloy
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	0.3 m
Cable characteristic	Suitable for energy chains/robot applications

Feature	Value
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	26 g
Material housing	Polyester High-alloy stainless steel
Material union nut	Nickel-plated brass
Material foil	Polyester
Ready status indication	Green LED
Status indication	LED red
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