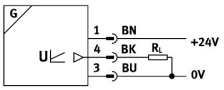
Position transmitter
SDAC-MHS-M20-1L-V-E-0.3-M8

Part number: 8128402





Data sheet

Feature	Value
Design	For C-slot
Approval	RCM
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS compliant Free of halogen
Instructions on use	Support / actuator-sensor overview "The right sensor for the actuator"
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	25 mm
Ambient temperature	-40 °C...80 °C
Typical sampling interval	2 ms
Max. travel speed	4 m/s
Displacement resolution	0.047 mm
Repetition accuracy	0.2 mm
Analogue output	0 - 10 V
Sensitivity	0.45 V/mm
Typical linearity error	±2 mm
Min. load resistance voltage output	10 kOhm
Short circuit current rating	Yes
Overload protection	Available
Output signal	Analogue
Operational voltage range DC	15 V...30 V
Residual ripple	10%
No-load supply current	12 mA
Reverse polarity protection	Yes
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	3
Electrical connection 1, type of mounting	Screw-type lock with hexagon A/F 9 mm and longitudinal knurl

Feature	Value
Connection outlet orientation	In-line
Material electrical contact	Brass, nickel-plated and gold-plated
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
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)
Type of mounting	Screw-clamped Inserted into the slot lengthwise
Mounting position	Any
Product weight	9 g
Material housing	Reinforced PA High-alloy stainless steel
Material union nut	Nickel-plated brass
Status indication	Red, green LED
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