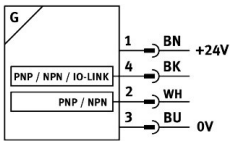
Position transmitter
SDAC-MHS-M30-1L-PNLK-PN-E-0.3-M8

Part number: 8128404





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	35 mm
Ambient temperature	-40 °C...80 °C
Typical sampling interval	2 ms
Max. travel speed	4 m/s
Displacement resolution	0.012 mm
Repetition accuracy	0.2 mm
Switching output	2x PNP or 2x NPN, adjustable
Switching element function	NC or NO, switchable
Switch-on time	3 ms
Switch-off time	3 ms
Max. switching frequency	166 Hz
Max. switching output voltage DC	30 V
Max. output current	50 mA
Max. switching capacity DC	1.5 W
Voltage drop	0.4 V
Typical linearity error	±2 mm
Short circuit current rating	Yes
Overload protection	Available
Protocol	IO-Link®
IO-Link, revision ID	V1.1
IO-Link, device profile	Function locator Identification and diagnostics

Feature	Value
	Measuring and switching sensor Smart Sensor - SSP 4.1.1
IO-Link, transmission rate	COM2
IO-Link, SIO-Mode support	Yes
IO-Link, port type	Class A
IO-Link, process data length input	32 bit
IO-Link, Process data content IN	Position value 16-bit MDC Monitoring 4-bit SSC
IO-Link, minimum cycle time	3 ms
Operational voltage range DC	10 V...30 V
Residual ripple	10%
No-load supply current	19 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	4
Electrical connection 1, type of mounting	Screw-type lock with hexagon A/F 9 mm and longitudinal knurl
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
Switching status indication	Yellow LED
Status indication	LED red
Setting options	IO-Link® Capacitive pushbutton
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