

Proximity sensor SIEF-M12NB-PS-S-L

Part number: 538311

FESTO



[General operating condition](#)

Data sheet

Feature	Value
Design	Round
Conforms to standard	EN 60947-5-2
Symbol	00991701
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Low Voltage Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions To UK regulations for electrical equipment
Measuring principle	Inductive
Rated operating distance	8 mm
Assured operating distance	6.48 mm
Reduction factors	Aluminium = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0
Ambient temperature	-30 °C ... 85 °C
Repetition accuracy	0.16 mm
Switching output	PNP
Switching element function	N/O contact
Hysteresis	0.24 mm ... 1.2 mm
Max. switching frequency DC	2000 Hz
Max. output current	200 mA
Voltage drop	≤1.8 V
Short circuit current rating	Pulsed
Operational voltage range DC	10 V ... 30 V
Residual ripple	10%
No-load supply current	≤15 mA
Reverse polarity protection	For all electrical connections
Electrical connection	M12x1 Plug
Electrical connection 1, connection type	Plug
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable screw-type lock

Feature	Value
Size	M12
Type of mounting	Via lock nut
Tightening torque	10 Nm
Mounting type	Not flush
Product weight	22 g
Material housing	PBT Chrome-plated
Switching status indication	Yellow LED
Degree of protection	IP67
Immunity to magnetic fields	Magnetic direct and alternating field
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Additional information for sensor selection	Reduction factor 1, resistant to magnetic fields
Electrical output	PNP
Selection of sensor design	Standard