

Proximity sensor SIEN-M12B-PS-K-L

Part number: 150402

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Conforms to standard	EN 60947-5-2
Symbol	00991702
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	according to UK RoHS regulations (UK-R)
Rated operating distance	2 mm
Assured operating distance	1.62 mm
Reduction factors	Aluminum = 0.4 Stainless steel St 18/8 = 0.6 Copper = 0.3 Brass = 0.5 Steel St 37 = 1.0
Ambient temperature	-25 °C ... 70 °C
Repetition accuracy under constant conditions	0.1 mm
Switching output	PNP
Switching element function	N.O. contact
Hysteresis	≤0.18 mm
Max. switching frequency	3000 Hz
Max. output current	200 mA
Voltage drop	≤2 V
Inductive protective circuit	Installed
Short-circuit protection	Pulsed
DC operating voltage range	10 V ... 30 V
Residual ripple	±10 %
Idle current	≤10 mA
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Cable
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Cable length	2.5 m
Material of cable sheath	TPE-U(PUR)
Size	M12x1
Type of mounting	With locknut
Mounting type	Flush
Product weight	110 g

Feature	Value
Housing material	PBTP Nickel-plated
Switching status indication	Yellow LED
Ambient temperature with flexible cable installation	-5 °C ... 70 °C
Degree of protection	IP65 IP67
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Selection of additional sensor information	With standard switching distance
Electrical output	PNP
Selection of sensor version	Standard