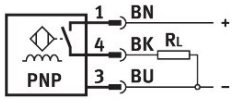
Proximity sensor
SIEF-M12NB-PS-S-L

Part number: 538311





Data sheet

Feature	Value
Design	Round
Conforms to standard	EN 60947-5-2
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU low voltage directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions To UK instructions for electrical equipment
Measuring principle	Inductive
Rated operating distance	8 mm
Assured operating distance	6.48 mm
Reduction factors	Aluminum = 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 protection	Pulsed
DC operating voltage range	10 V...30 V
Residual ripple	10%
Idle current	15 mA
Reverse polarity protection	for all electrical connections
Electrical connection	3-pin Fixcon M12x1 Plug

Feature	Value
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock not rotatable Compatible with rotatable screw-type lock
Size	M12
Type of mounting	With locknut
Tightening torque	10 Nm
Mounting type	Not flush
Product weight	22 g
Housing material	Brass PBT Chrome-plated
Switching status indication	Yellow LED
Degree of protection	IP67
Resistance to interference from magnetic fields	Magnetic direct and alternating fields
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Selection of additional sensor information	with reduction factor 1 – resistance to magnetic fields
Electrical output	PNP
Selection of sensor version	Standard