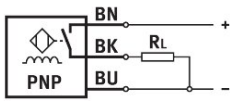
Proximity sensor
SIEN-M12B-PS-K-L-PA

Part number: 538323





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	2 mm
Assured operating distance	1.62 mm
Reduction factors	Aluminum = 0.35 - 0.5 Stainless steel St 18/8 = 0.6 - 1.0 Copper = 0.25 - 0.45 Brass = 0.35 - 0.5 Steel St 37 = 1.0
Ambient temperature	-25 °C...70 °C
Repetition accuracy	0.04 mm
Switching output	PNP
Switching element function	N.O. contact
Hysteresis	0.06 mm...0.3 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-wire Cable
Electrical connection 1, connection type	Cable

Feature	Value
Electrical connection 1, connection technology	Open end
Electrical connection 1, number of pins/wires	3
Cable length	2.5 m
Material of cable sheath	PVC
Insulating sheath material	PVC
Size	M12
Type of mounting	With locknut
Tightening torque	1 Nm
Mounting type	Flush
Product weight	113 g
Housing material	PA-reinforced
Switching status indication	Yellow LED
Ambient temperature with flexible cable installation	0 °C...70 °C
Degree of protection	IP65 IP67
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Selection of additional sensor information	With standard switching distance
Electrical output	PNP
Selection of sensor version	Polyamide housing