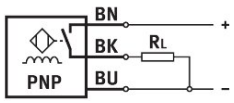
Proximity sensor
SIEN-M12B-PS-K-L-PA

Part number: 538323





Data sheet

Feature	Value
Design	Round
Conforms to standard	EN 60947-5-2
Approval	RCM trademark c UL us listed (OL)
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 instructions for EMC To UK RoHS instructions To UK regulations for electrical equipment
Measuring principle	Inductive
Rated operating distance	2 mm
Assured operating distance	1.62 mm
Reduction factors	Aluminium = 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 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	3-wire Cable
Electrical connection 1, connection type	Cable

Feature	Value
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	3
Cable length	2.5 m
Material cable sheath	PVC
Material insulating sheath	PVC
Size	M12
Type of mounting	Via lock nut
Tightening torque	1 Nm
Mounting type	Flush
Product weight	113 g
Material housing	PA-reinforced
Switching status indication	Yellow LED
Ambient temperature with moving cable	0 °C...70 °C
Degree of protection	IP65 IP67
Corrosion resistance class CRC	4 - Very high corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Additional information for sensor selection	with standard sensing distance
Electrical output	PNP
Selection of sensor design	Polyamide housing