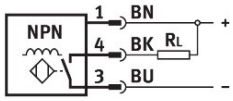
Proximity sensor
SIEH-M18B-NS-S-L-CR

Part number: 538257



Data sheet

Feature	Value
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 In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	according to UK instructions for EMC (UK-E) according to UK RoHS instructions (UK-R)
Rated operating distance	10 mm
Assured operating distance	8.1 mm
Reduction factors	Aluminium = 1.0 Stainless steel, 1 mm thick = 0.4 Stainless steel, 2 mm thick = 0.8 Copper = 0.85 Brass = 1.3 Steel St 37 = 1.0
Ambient temperature	-25 °C...70 °C
Switching output	NPN
Switching element function	N/O contact
Reproducibility of switching values FS	0.5 mm
Hysteresis	1.22 mm
Max. switching frequency	200 Hz
Max. output current	200 mA
Voltage drop	2 V
Inductive protective circuit	Integrated Output current < 100 mA And switching frequency < 10 Hz
Short circuit current rating	Pulsed
Operational voltage range DC	10 V...30 V
Residual ripple	20%
No-load supply current	17 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	4

Feature	Value
Electrical connection 1, type of mounting	Screw-type lock Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable screw-type lock
Size	M18
Type of mounting	Via lock nut
Mounting type	Flush
Product weight	53 g
Material housing	High-alloy steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-5 °C...70 °C
Degree of protection	IP67 IP69K
Housing pressure resistance	60 bar
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Additional information for sensor selection	with increased sensing distance
Electrical output	NPN
Selection of sensor design	Stainless steel housing