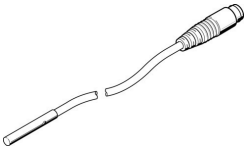
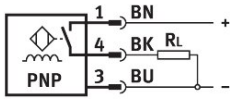
Proximity sensor
SIEH-3B-PS-S-L

Part number: 538263





General operating condition

Data sheet

Feature	Value
Design	Round
Conforms to standard	EN 60947-5-2
Symbol	00991701
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 RoHS instructions (UK-R)
Measuring principle	Inductive
Rated operating distance	1 mm
Assured operating distance	0.81 mm
Reduction factors	Aluminium = 0.5 Stainless steel St 18/8 = 0.8 Copper = 0.45 Brass = 0.6 Steel St 37 = 1.0
Ambient temperature	-25 °C ... 70 °C
Repetition accuracy	0.02 mm
Switching output	PNP
Switching element function	N/O contact
Hysteresis	≤0.12 mm
Switch-on time	0.02 ms
Max. switching frequency DC	3000 Hz
Max. output current	100 mA
Voltage drop	≤2 V
Inductive protective circuit	Integrated Output current ‹ 100 mA And switching frequency ‹ 10 Hz
Off-state current	≤0.1 mA
Short circuit current rating	Pulsed
Operational voltage range DC	10 V ... 30 V
Residual ripple	20%
No-load supply current	≤10 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Not rotatable

Feature	Value
Electrical connection 1, compatible type of mounting	Compatible with latching lock Compatible with rotatable screw-type lock
Cable length	0.15 m
Material cable sheath	TPE-U(PUR)
Material insulating sheath	PVC
Size	3 mm
Type of mounting	Clamped
Mounting type	Flush
Product weight	4 g
Material housing	High-alloy stainless steel
Switching status indication	Yellow LED
Ambient temperature with moving cable	-5 °C ... 70 °C
Degree of protection	IP67
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Additional information for sensor selection	with increased sensing distance
Electrical output	PNP
Selection of sensor design	Standard