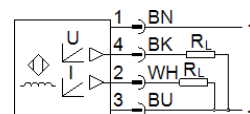
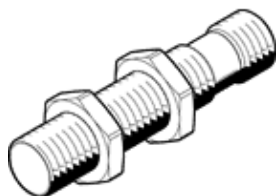


proximity sensor SIEA-M12B-UI-S

Part number: 538292

FESTO

With plug, flush mounting



Data sheet

Feature	values
Design	Round
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
Materials note	Free of copper and PTFE
Measuring principle	Inductive
Reduction factors	Aluminium = 0.28 Stainless steel, St 18/8 = 0.47 Copper = 0.2 Brass = 0.35 Steel, St 37 = 1.0
Distance measuring range	0 ... 6 mm
Ambient temperature	-25 ... 70 °C
Travel resolution	0.001 mm
Repetition accuracy	0.3 mm
Repetition accuracy for constant conditions	+/- 0,01 mm
Temperature drift from real switching distance	<= ± 5% (0 - 70°C) <= ± 10% (-25 - 0°C)
Max. switching frequency, DC	1,000 Hz
Analogue output	0 - 10 V 4 - 20 mA
Bandwidth	1000 Hz (-3dB with s=3 mm)
Max. load current at analogue voltage output	10 mA
Max. load at analogue voltage output	500 Ohm
Short circuit strength	Pulsing
Overload withstand capability	Available
Max. current/voltage output without object	120 %
Output voltage at 23°C	0 V / -0 + 0,4 V (s=0 mm) +5,2 V / ± 0,4 V (s=3 mm) +10 V / ± 0,4 V (s=6 mm)
Output current at 23°C	4mA / ± 0,8 mA (s=0 mm) 20mA / ± 0,8 mA (s=6 mm)
Operating voltage range DC	15 ... 30 V
Residual ripple	20 %
Idle current	<= 10 mA
Polarity protected	for operating voltage
Electrical connection	Plug M12x1 4-pin
Cable length	2.5 m
Size	M12
Mounting type	with lock nut
Tightening torque	10 Nm
Type of installation	flush

Feature	values
Product weight	33 g
Materials information, housing	Brass Chromed-plated
Protection class	IP67
Corrosion resistance classification CRC	2 - Moderate corrosion stress