

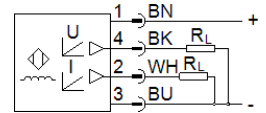
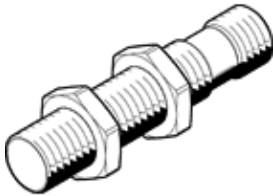
Proximity sensor SIEA-M12B-UI-S

Part number: 538292
Product to be discontinued

FESTO

With plug, flush mounting

Type to be discontinued. Available until 2021. See Support Portal for alternative products.



Data sheet

Feature	Value
Design	Round
Authorization	RCM Mark c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline
Materials note	Free of copper and PTFE
Measuring principle	Inductive
Reduction factors	Aluminum = 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	$\leq \pm 5\%$ (0 - 70°C) $\leq \pm 10\%$ (-25 - 0°C)
Max. switching frequency, DC	1,000 Hz
Analog output	0 - 10 V 4 - 20 mA
Bandwidth	1000 Hz (-3 dB where s = 3 mm)
Max. load current at analog voltage output	10 mA
Max. load at analog 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 / $\pm 0,4$ V (s=3 mm) +10 V / $\pm 0,4$ V (s=6 mm)
Output current at 23°C	4mA / $\pm 0,8$ mA (s=0 mm) 20mA / $\pm 0,8$ 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
Size	M12
Mounting type	with lock nut
Tightening torque	10 Nm

Feature	Value
Type of installation	flush
Product weight	33 g
Material housing	Brass Chromed-plated
Protection class	IP67
Corrosion resistance classification CRC	2 - Moderate corrosion stress