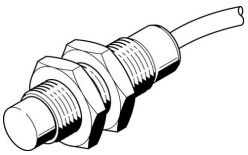
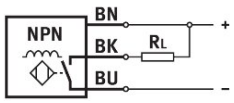
Proximity sensor
SIEF-M18NB-NS-K-L

Part number: 538318





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	12 mm
Assured operating distance	9.72 mm
Reduction factors	Aluminium = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0
Ambient temperature	-30 °C...85 °C
Repetition accuracy	0.24 mm
Switching output	NPN
Switching element function	N/O contact
Hysteresis	0.36 mm...1.8 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	TPE-U(PUR)
Material insulating sheath	PVC
Size	M18
Type of mounting	Via lock nut
Tightening torque	25 Nm
Mounting type	Not flush
Product weight	141 g
Material housing	Brass PBT Chrome-plated
Switching status indication	Yellow LED
Ambient temperature with moving cable	0 °C...80 °C
Degree of protection	IP67
Immunity to magnetic fields	Magnetic direct and alternating field
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Additional information for sensor selection	Reduction factor 1, resistant to magnetic fields
Electrical output	NPN
Selection of sensor design	Standard