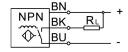
Proximity sensor SIEF-M30NB-NS-K-L

FESTO

Part number: 538322





Data sheet

Design Round En Koop47-5-2 Symbol 00991704 Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance mark c UL us - Used (OL) Erriffication RCM compliance MCM comperating direction RCM comperating principle Inductive Readuction grinciple Inductive Readuction factors Inductive Readuction factors Inductive Readuction factors Inductive RCM mCM RCM RCM RCM RCM RCM RCM RCM RCM RCM R	Feature	Value
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Symbol 00991704 Certification Certification RCM compliance mark cult us - Listed (OL) E marking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Measuring principle Inductive Rated operating distance 20 mm Assured operating distance 16.2 mm Reduction factors Aluminum = 1.0 Stalinless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0 Steel St 37 = 1.0 Switching output NPN Switching element function N/O contact Hysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Notage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Received a lelectrical connection Cable Reverse polarity protection For all electrical connections Electrical connection Testure Insulations with lock nut With lock nut With lock nut With lock nut	Design	Round
Lertification RCM compliance mark cultus - Listed (OL) EE marking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Measuring principle Inductive Assured operating distance 20 mm Assured operating distance Assured operating distance Assured operating distance Assured operating distance Aluminum = 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 0.4 mm Switching output NPN Nylo contact Hysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop 4.8 V Aluminum = 1.0 Steel St 37 = 1.0 St	Conforms to standard	EN 60947-5-2
C UL us - Listed (OL) Et marking (see declaration of conformity) As per EU EMC directive Note on materials Measuring principle Inductive Rated operating distance Reduction factors Aluminum = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0 Steel St 37 = 1.0 Ambient temperature Repetition accuracy O.4 mm Switching output NPN Switching output NPN Switching frequency DC 1500 Hz Max. switching frequency DC 1500 Hz Max. switching frequency DC 1500 Hz Resettion protection Coperating voltage range 10 V 30 V Residual ripple die current Reverse polarity protection Coperating voltage range Reverse polarity protection Cable Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material Free of copper and PTFE Inductive Induc	Symbol	00991704
Note on materials Measuring principle Measuring principle Ansured operating distance Assured operating distance Reduction factors Aluminum = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0 Ambient temperature Repetition accuracy O.4 mm NPN Switching output NPN Switching element function N/O contact -lysteresis O.6 mm 3 mm Max. output current 200 mA Wax. output current Pulsed OC operating voltage range 10 V 30 V Residual ripple die current stipple stipple stipple die current stipple	Certification	
Measuring principle Rated operating distance Rated operating distance Reduction factors Repetition accuracy Repetition	CE marking (see declaration of conformity)	As per EU EMC directive
Assured operating distance Assured operating distance Assured operating distance Assured operating distance Reduction factors Aluminum = 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 0.4 mm NPN Switching output NPN Switching element function N/O contact Hysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % dile current \$15 m A Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Length Material of cable sheath TPE-U(PUR) Insulating sheath material Fye of mounting With lock nut	Note on materials	Free of copper and PTFE
Assured operating distance Reduction factors Reduction factors Reduction factors Aluminum = 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 0.4 mm NPN Switching output NPN Switching element function N/O contact -lysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple dle current \$15 mA Reverse polarity protection For all electrical connections 3-wire Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 With lock nut	Measuring principle	Inductive
Aluminum = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0 Ambient temperature Repetition accuracy O.4 mm Switching output NPN Switching element function Hysteresis O.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Eable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 With lock nut	Rated operating distance	20 mm
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 0.4 mm NPN Switching output NPN Switching element function N/O contact Hysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 mA Wax. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Reverse polarity protection For all electrical connections Cable Cable length 2.5 m Waterial of cable sheath TPE-U(PUR) Insulating sheath material Fye of mounting With lock nut With lock nut	Assured operating distance	16.2 mm
Repetition accuracy O.4 mm Switching output NPN Switching element function N/O contact Nysteresis O.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed OC operating voltage range 10 V 30 V Residual ripple 10 % Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Cable length Auterial of cable sheath TPE-U(PUR) Insulating sheath material Fype of mounting With lock nut O.4 mm NPN NO contact NO con	Reduction factors	Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0
Switching output NPN Switching element function N/O contact 1-tysteresis 0.6 mm 3 mm Max. switching frequency DC Max. output current 200 mA Voltage drop Short-circuit protection Pulsed Residual ripple 10 % Reverse polarity protection Selectrical connection Cable length Material of cable sheath Insulating sheath material Fype of mounting With lock nut	Ambient temperature	-30 °C 85 °C
Switching element function N/O contact 1-ysteresis 0.6 mm 3 mm 1500 Hz Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed 10 V 30 V Residual ripple 10 % Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Type of mounting With lock nut	Repetition accuracy	0.4 mm
Hysteresis 0.6 mm 3 mm Max. switching frequency DC 1500 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Gle current \$15 mA Reverse polarity protection for all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 With lock nut	Switching output	NPN
Max. switching frequency DC Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed OC operating voltage range 10 V 30 V Residual ripple 10 % dle current \$15 mA Reverse polarity protection For all electrical connections Electrical connection \$3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 With lock nut	Switching element function	N/O contact
Max. output current 200 mA 21.8 V Short-circuit protection Pulsed C operating voltage range 10 V 30 V Residual ripple 10 % Reverse polarity protection for all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC M30 Type of mounting With lock nut	Hysteresis	0.6 mm 3 mm
Voltage drop Short-circuit protection Pulsed Co operating voltage range 10 V 30 V Residual ripple 10 % dle current Styrea polarity protection For all electrical connections Selectrical connection 3-wire Cable Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC M30 Type of mounting With lock nut	Max. switching frequency DC	1500 Hz
Pulsed OC operating voltage range 10 V 30 V Residual ripple 10 % dle current 415 mA Reverse polarity protection For all electrical connections 3-wire Cable Cable length Atterial of cable sheath TPE-U(PUR) Insulating sheath material Fyc M30 Type of mounting Pulsed 10 V 30 V Atterial of Automotion (and the protection of the prot	Max. output current	200 mA
DC operating voltage range 10 V 30 V Residual ripple 10 % dle current \$15 mA Reverse polarity protection for all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 Type of mounting With lock nut	Voltage drop	≤1.8 V
Residual ripple 10 % dle current \$15 mA Reverse polarity protection for all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Waterial of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 Type of mounting With lock nut	Short-circuit protection	Pulsed
Severse polarity protection Severse polarity protections Severse	DC operating voltage range	10 V 30 V
Reverse polarity protection for all electrical connections 3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 Type of mounting With lock nut	Residual ripple	10 %
Electrical connection 3-wire Cable Cable Cable length 2.5 m Waterial of cable sheath TPE-U(PUR) nsulating sheath material PVC Size M30 Type of mounting With lock nut	Idle current	≤15 mA
Cable Cable length Cable length Cable length Cable sheath TPE-U(PUR) Insulating sheath material PVC Size M30 Type of mounting With lock nut	Reverse polarity protection	for all electrical connections
Material of cable sheath TPE-U(PUR) nsulating sheath material PVC Size M30 Type of mounting With lock nut	Electrical connection	
nsulating sheath material PVC Size M30 Type of mounting With lock nut	Cable length	2.5 m
Size M30 Type of mounting With lock nut	Material of cable sheath	TPE-U(PUR)
Type of mounting With lock nut	Insulating sheath material	PVC
	Size	M30
Fightening torque 75 Nm	Type of mounting	With lock nut
	Tightening torque	75 Nm

Feature	Value
Mounting type	Partially flush
Product weight	194 g
Housing material	Brass PBT Chrome-plated
Switching status indication	LED yellow
Ambient temperature with flexible cable installation	0 °C 80 °C
Degree of protection	IP67
Resistance to interference from magnetic fields	Magnetic direct and alternating fields
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Selection of additional sensor information	With reduction factor 1 – resistance to magnetic fields
Electrical output	NPN
Selection of sensor version	Standard