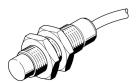
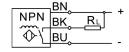
Proximity sensor SIEF-M18NB-NS-K-L

Part number: 538318







Data sheet

Design Round Conform to standard EN 60947-5-2 Symbol O0991704 CET certification RCM compliance mark c UL us - Usted (OL) CET marking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Measuring principle Inductive Rated operating distance I2 mm Assured operating distance 9.72 mm Reduction factors Auminum = 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 Steel St 37 = 1.0 Switching output NPN Switching output NPN Switching lement function N/O contact Hysteresis 0.36 mm 1.8 mm Max. switching frequency DC 2000 Hz Max. output current 200 mA DC operating voltage range 10 % 30 V Residual ripple dide current 15 mA Reverse polarity protection For all electrical connections Electrical connection Grable length Max. In MB Material of cable sheath TPE-UPUR) Insulating sheath material Fixe of mounting With lock nut	Feature	Value
EN 60947-5-2 Symbol 0991704 RCM compliance mark culture - listed (OL) CE marking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Measuring principle Rated operating distance Assured operating distance Assured operating distance Reduction factors Aluminum = 1.0 Brass = 1.0 Stainless steel \$1 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel \$3 7 = 1.0 Steel \$3 7 = 1.0 Switching output NPN 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 2000 mA Awax. output current 2000 mA Voltage drop \$1.8 V Short-cruit protection Pulsed Oc operating voltage range 10 V 30 V Reverse polarity protection for all electrical connections Cable Cable length Material of cable sheath TPE-UPUR) Missulating sheath material PVC Size Missilating sheath material With lock nut	Type code	SIEF
Symbol 00991704 Certification Certification RCM compliance mark cult. us - Listed (OL) CE marking (see declaration of conformity) Note on materials Free of copper and PTFE Measuring principle Inductive Rated operating distance 12 mm Assured operating distance Assured operating distance Reduction factors 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 Steel St 37 = 1.0 Steel St 37 = 1.0 Switching output NPN 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 Short-circuit protection DC operating voltage range 10 V 30 V Residual ripple dle current 415 mA Reverse polarity protection For all electrical connections Cable Cable length TPE-U(PUR) Insulating sheath material Fye of mounting With lock nut	Design	Round
Lertification RCM compliance mark cut us - Listed (OL) CE marking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Measuring principle Inductive Rated operating distance 12 mm 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 0.24 mm Switching output NPN N/O contact Hysteresis 0.36 mm 1.8 mm Max. switching frequency DC Max. output current 200 mA Voltage drop 4.1.8 V Doct operating voltage range 10 V 30 V Residual ripple 10 % Reverse polarity protection Flectrical connection Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material Free of copper and PTFE Inductive With lock nut	Conforms to standard	EN 60947-5-2
c UL us - Listed (OL) Emarking (see declaration of conformity) As per EU EMC directive Note on materials Free of copper and PTFE Inductive Inductive Rated operating distance 12 mm 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 Steel St 37 = 1.0 Steel St 37 = 1.0 Switching output NPN Switching output NPN Switching element function Hysteresis 0.36 mm 1.8 mm Max. switching frequency DC 2000 Hz Max. output current 200 mA Woltage drop Short-circuit protection DC operating voltage range Residual ripple did current st 5 m A Reverse polarity protection Electrical connection Cable Cable length Material of cable sheath Insulating sheath material FYC Size M18 Kirch lock nut With lock nut	Symbol	00991704
Note on materials Measuring principle Measuring principle Aluminum = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Steel St 37 = 1.0 Ambient temperature Repetition accuracy Max. output current Voltage drop Short-circuit protection DC operating voltage range DC operating voltage range 10 % School of all electrical connections Electrical connection Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size operating voltage non Minimum = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Stainless steel St 18/8 = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Stainless steel St 18/8	Certification	
Measuring principle Rated operating distance Reduction factors Repetition factors	CE marking (see declaration of conformity)	As per EU EMC directive
Rated 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 0.24 mm NPN Switching output NPN Switching element function Myo contact Hysteresis 0.36 mm 1.8 mm Wax. switching frequency DC 2000 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 dile current \$15 mA Reverse polarity protection Get all electrical connection Beterrical connection 3-wire Cable Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Note on materials	Free of copper and PTFE
Assured operating distance 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 0.24 mm NPN 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 Stort-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple dide current \$15 mA Reverse polarity protection For all electrical connections 1-25 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Measuring principle	Inductive
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 0.24 mm NPN Switching output NPN Switching element function N/O contact Hysteresis 0.36 mm 1.8 mm Max. switching frequency DC 200 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 Cable length 7 EF-U(PUR) Insulating sheath material Fye of mounting With lock nut	Rated operating distance	12 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 0.24 mm NPN 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 2000 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 Sawire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material Fype of mounting With lock nut	Assured operating distance	9.72 mm
Repetition accuracy O.24 mm Switching output NPN Switching element function N/O contact Hysteresis O.36 mm 1.8 mm Max. switching frequency DC Max. output current Voltage drop Short-circuit protection DC operating voltage range NO coperating voltage range NO c	Reduction factors	Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0
Switching output NPN Switching element function N/O contact Hysteresis 0.36 mm 1.8 mm 2000 Hz Max. switching frequency DC 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 % dle current \$15 mA Reverse polarity protection Flectrical connection \$3-wire Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Ambient temperature	-30 °C 85 °C
Switching element function N/O contact Hysteresis 0.36 mm 1.8 mm 2000 Hz 2000 Hz Max. output current 200 mA Voltage drop \$1.8 V Short-circuit protection Pulsed Co 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 M18 Type of mounting With lock nut	Repetition accuracy	0.24 mm
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 protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Idle 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 M18 Type of mounting With lock nut	Switching output	NPN
Max. switching frequency DC 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 % Idle 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 M18 Type of mounting With lock nut	Switching element function	N/O contact
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 % Idle 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 M18 Type of mounting With lock nut	Hysteresis	0.36 mm 1.8 mm
Voltage drop Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 % Idle current Reverse polarity protection For all electrical connections Selectrical connection 3-wire Cable Cable length Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Max. switching frequency DC	2000 Hz
Short-circuit protection DC operating voltage range 10 V 30 V Residual ripple 10 % Idle current All electrical connection Felectrical connection Cable length Material of cable sheath Insulating sheath material Fize M18 Type of mounting Pulsed 10 V 30 V All electrical connections 10 % All electrical connections 3-wire Cable Cable Cable PVC M18 With lock nut	Max. output current	200 mA
DC operating voltage range 10 V 30 V Residual ripple 10 % Idle current S15 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 M18 Type of mounting With lock nut	Voltage drop	≤1.8 V
Residual ripple 10 % Idle current s15 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 M18 Type of mounting With lock nut	Short-circuit protection	Pulsed
Severse polarity protection For all electrical connections	DC operating voltage range	10 V 30 V
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 M18 Type of mounting With lock nut	Residual ripple	10 %
Electrical connection 3-wire Cable Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Idle current	≤15 mA
Cable Cable length Cable length Material of cable sheath Insulating sheath material Fyc Size M18 Type of mounting With lock nut	Reverse polarity protection	for all electrical connections
Material of cable sheath TPE-U(PUR) Insulating sheath material PVC Size M18 Type of mounting With lock nut	Electrical connection	
Insulating sheath material PVC Size M18 Type of mounting With lock nut	Cable length	2.5 m
Size M18 Type of mounting With lock nut	Material of cable sheath	TPE-U(PUR)
Type of mounting With lock nut	Insulating sheath material	PVC
	Size	M18
Tightening torque 25 Nm	Type of mounting	With lock nut
	Tightening torque	25 Nm

Feature	Value
Mounting type	Partially flush
Product weight	141 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