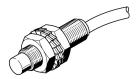
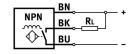
## Proximity sensor SIEF-M8NB-NS-K-L

Part number: 538310







General operating condition

## **Data sheet**

Conforms to standard  EN 60947-5-2  Symbol  O0991704  Approval  RCM trademark cUL us listed (OL)  CE mark (see declaration of conformity)  To EU EMC Directive  Measuring principle Inductive  Rested operating distance Assured operating distance Assured operating distance  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  Assured operature  Outs a man of the standard of the standard of the standard operating distance  Ambient temperature  3.0 °C 85 °C  Repetition accuracy  Outs mm  Switching output  NPN  Switching element function  N/O contact  Hysteresis  0.12 mm 0.6 mm  Max. switching frequency DC  2000 Hz  Max. output current  150 mA  Voltage drop  \$1.8 V  Short circuit current rating  Pulsed  Operational voltage range DC  10 °W 30 V  Residual ripple  10 %  No-load supply current  \$15 mA  Reverse polarity protection  Electrical connection  Electrical connection  Electrical connection  Electrical connection  Electrical connection  Electrical connection  TPE-U(PUR)  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting  Via lock nut  Tightening toque  Do Mm  Mounting type  Partially flush	Feature	Value
Symbol 00991704 Approval RCM trademark c UL us listed (OL) CE mark (see declaration of conformity) To EU EMC Directive Measuring principle Inductive Rated operating distance 4 mm Assured operating distance 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 3.0 °C 85 °C Repetition accuracy 0.08 mm Switching output NPN Switching output NPN Max. switching frequency DC 2000 Hz Max. switching frequency DC 2000 Hz Max. output current 150 mA Voltage drop 1.1 × 1.8 V Short circuit current rating Pulsed Operational voltage range DC 10 °V 30 °V. Residual ripple 10 °% No-load supply current 5 mA Reverse polarity protection For all electrical connections Electrical connection 3 *wire Cable length Max Electrical connections Electrical connection 1.5 mM Max electrical scannection 1.5 mM Maxerial cannection 2.5 m Maxerial cannection 2.5 m Maxerial cannection 4.5 m/S  Size M8 Maxerial insulating sheath PVC Size M8 Type of mounting Viale forum Mounting type Partially flush	Design	Round
Approval RCM trademark c UL us listed (OL) CE mark (see declaration of conformity) To EU EMC Directive  Measuring principle Inductive  Rated operating distance A mm  Assured operating distance Assured operating distance Assured operating distance Assured operating distance Aluminium = 1.0 Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0  Ambient temperature 3-0° C 85° C Repetition accuracy 0.08 mm  Switching output NPN Switching element function N/O contact Hysteresis 0.12 mm 0.6 mm  Max. switching frequency DC 2000 Hz Max. output current 150 mA Voltage drop \$1.8 V Short circuit current rating Pulsed Operational voltage range DC 10 V 30 V Residual ripple 10 % Reverse polarity protection Electrical connection Swite Cable length TPE-U(PUR) Material insulating sheath PVC Size M8 Type of mounting type Partially flush	Conforms to standard	EN 60947-5-2
C UL us listed (QL)  Et mark (see declaration of conformity)  To EU EMC Directive  Measuring principle  Rated operating distance  Assured operating distance  Reduction factors  Aluminium = 1.0  Copper = 1.0  Brass = 1.0  Copper = 1.0  Brass = 1.0  Steel St 37 = 1.0  Ambient temperature  -30 °C 85 °C  Repetition accuracy  O.08 mm  Switching output  NPN  Switching element function  N/O contact  Hysteresis  0.12 mm 0.6 mm  Max. output current  150 mA  Voltage drop  st.8 V  Short circuit current rating  Operational voltage range DC  Residual ripple  10 %  No-load supply current  step for all electrical connections  Electrical connection  Reverse polarity protection  Electrical connection  Cable  Cable  Cable  Cable length  Material insulating sheath  PVC  Size  M8  M8  Type of mounting  Mounting type  Partially flush	Symbol	00991704
Measuring principle Rated operating distance Assured operating distance Reduction factors Repetition accuracy Residual rippe accuracy Residual ripple Reverse polarity protection Reve	Approval	
Rated operating distance 3.24 mm  Assured operating distance 3.24 mm  Reduction factors Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Stainless steel St 37 = 1.0  Ambient temperature -30 °C 85 °C Repetition accuracy 0.08 mm  Switching output NPN  Switching element function N/O contact Hysteresis 0.12 mm 0.6 mm  Max. switching frequency DC 2000 Hz  Max. output current 150 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 s15 mA  Reverse polarity protection For all electrical connections  Electrical connection 3-wire Cable  Cable length 2.5 m  Material cable sheath TPE-U(PUR)  Material insulating sheath PVC  Size M8  Type of mounting type Partially flush	CE mark (see declaration of conformity)	To EU EMC Directive
Assured operating distance  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  0.08 mm  Switching output  NPN  Switching element function N/O contact Hysteresis  0.12 mm 0.6 mm  Max. switching frequency DC  Max. output current  150 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  Electrical connection  3-wire Cable  Cable length  TPE-U(PUR)  Material insulating sheath PVC Size M8  Type of mounting Tightening torque Mounting type  Partially flush	Measuring principle	Inductive
Reduction factors  Aluminium = 1.0 Stainless steel \$t 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel \$t 3.7 = 1.0  Ambient temperature  -30 °C 85 °C Repetition accuracy  0.08 mm  Switching output  NPN  Switching element function N/O contact Hysteresis  0.12 mm 0.6 mm  Max. switching frequency DC  2000 Hz  Max. output current 150 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  Electrical connection  3-wire Cable  Cable length  Te-U(PUR)  Material insulating sheath PVC Size M8  Type of mounting type  Mounting type  Ambient identified in the stail of the second in the	Rated operating distance	4 mm
Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0 Steel St 37 = 1.0  Ambient temperature -30 °C85 °C Repetition accuracy 0.08 mm  Switching output NPN  Switching element function N/O contact Hysteresis 0.12 mm 0.6 mm  Max. switching frequency DC 2000 Hz Max. output current 150 mA  Voltage drop 41.8 V  Short circuit current rating Pulsed Operational voltage range DC 10 V 30 V  Residual ripple 10 %  No-load supply current 415 mA  Reverse polarity protection Electrical connection  Electrical connection 3-wire Cable Cable length Atterial cable sheath PVC Size Material insulating sheath PVC Size Ma Ma Type of mounting Via lock nut Tightening torque Mounting type Partially flush	Assured operating distance	3.24 mm
Repetition accuracy O.08 mm  Switching output NPN  Switching element function N/O contact Hysteresis O.12 mm 0.6 mm  Max. switching frequency DC 2000 Hz  Max. output current 150 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 Cable length 7PE-U(PUR)  Material insulating sheath PVC  Size M8  Type of mounting Tightening torque Mounting type  No-Io Name Mounting type Partially flush	Reduction factors	Stainless steel St 18/8 = 1.0 Copper = 1.0 Brass = 1.0
Switching output  Switching element function  N/O contact  Hysteresis  0.12 mm 0.6 mm  Max. switching frequency DC  2000 Hz  Max. output current  150 mA  Voltage drop  \$1.8 V  Short circuit current rating  Operational voltage range DC  Residual ripple  10 %  No-load supply current  \$15 mA  Reverse polarity protection  Electrical connection  \$3-wire Cable Cable length  Azire Cable length  TPE-U(PUR)  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting Tightening torque  Mounting type  Partially flush	Ambient temperature	-30 ℃ 85 ℃
Switching element function  Hysteresis  0.12 mm 0.6 mm  Max. switching frequency DC  Max. output current  150 mA  Voltage drop  \$1.8 V  Short circuit current rating  Operational voltage range DC  Residual ripple  10 %  No-load supply current  \$15 mA  Reverse polarity protection  Electrical connection  \$3-wire Cable  Cable length  Activate a connection  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting  Tightening torque  Mounting type  Partially flush	Repetition accuracy	0.08 mm
Hysteresis 0.12 mm 0.6 mm  Max. switching frequency DC 2000 Hz  Max. output current 150 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  Cable length 2.5 m  Material cable sheath TPE-U(PUR)  Material insulating sheath PVC  Size M8  Type of mounting Type  Mounting type Partially flush  Mounting type	Switching output	NPN
Max. switching frequency DC  Max. output current  150 mA  Voltage drop  \$1.8 V  Short circuit current rating  Operational voltage range DC  Residual ripple  10 %  No-load supply current  \$15 mA  Reverse polarity protection  For all electrical connections  Electrical connection  3-wire Cable  Cable length  Activated a sheath  TPE-U(PUR)  Material cable sheath  PVC  Size  M8  Type of mounting  Tightening torque  Mounting type  Partially flush  150 mA  10 V 30 V  Residual ripple  10 %  For all electrical connections  3-wire Cable Cable Length  PVC  Size  M8  Type of mounting  Via lock nut  Tightening torque  Mounting type	Switching element function	N/O contact
Max. output current  150 mA  Voltage drop  \$1.8 V  Short circuit current rating  Operational voltage range DC  Residual ripple  10 %  No-load supply current  \$15 mA  Reverse polarity protection  For all electrical connections  Electrical connection  3-wire Cable  Cable length  2.5 m  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting  Tightening torque  Mounting type  Partially flush	Hysteresis	0.12 mm 0.6 mm
Short circuit current rating Operational voltage range DC 10 V 30 V Residual ripple 10 % No-load supply current Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material cable sheath TPE-U(PUR) Material insulating sheath PVC Size M8 Type of mounting Via lock nut Tightening torque Mounting type Partially flush	Max. switching frequency DC	2000 Hz
Short circuit current rating 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 Cable length 2.5 m  Material cable sheath TPE-U(PUR)  Material insulating sheath PVC Size M8 Type of mounting Type of mounting Tightening torque Mounting type Partially flush Partially flush	Max. output current	150 mA
Operational voltage range DC Residual ripple 10 % No-load supply current s15 mA Reverse polarity protection For all electrical connections Electrical connection 3-wire Cable Cable length 2.5 m Material cable sheath TPE-U(PUR) Material insulating sheath PVC Size M8 Type of mounting Tightening torque Mounting type  10 V 30 V  2 15 mA  For all electrical connections  3-wire Cable	Voltage drop	≤1.8 V
Residual ripple 10 %   No-load supply current ≤15 mA   Reverse polarity protection For all electrical connections   Electrical connection 3-wire Cable   Cable length 2.5 m   Material cable sheath TPE-U(PUR)   Material insulating sheath PVC   Size M8   Type of mounting Via lock nut   Tightening torque 10 Nm   Mounting type Partially flush	Short circuit current rating	Pulsed
No-load supply current  Reverse polarity protection  Electrical connection  Cable length  Atterial cable sheath  Material insulating sheath  Type of mounting  Tightening torque  Mounting type  For all electrical connections  3-wire Cable  Cable  2.5 m  TPE-U(PUR)  PVC  M8  Type of mounting  Via lock nut  Tightening torque  Nounting type	Operational voltage range DC	10 V 30 V
Reverse polarity protection  Electrical connection  3-wire Cable  Cable length  2.5 m  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting  Via lock nut  Tightening torque  Mounting type  Partially flush	Residual ripple	10 %
Electrical connection  3-wire Cable  Cable  Cable length  2.5 m  Material cable sheath  TPE-U(PUR)  Material insulating sheath  PVC  Size  M8  Type of mounting  Via lock nut  Tightening torque  Mounting type  Partially flush	No-load supply current	≤15 mA
CableCable length2.5 mMaterial cable sheathTPE-U(PUR)Material insulating sheathPVCSizeM8Type of mountingVia lock nutTightening torque10 NmMounting typePartially flush	Reverse polarity protection	For all electrical connections
Material cable sheath TPE-U(PUR)  Material insulating sheath PVC  Size M8  Type of mounting Via lock nut  Tightening torque 10 Nm  Mounting type Partially flush	Electrical connection	
Material insulating sheath PVC Size M8 Type of mounting Via lock nut Tightening torque 10 Nm Mounting type Partially flush	Cable length	2.5 m
Size M8 Type of mounting Via lock nut Tightening torque 10 Nm Mounting type Partially flush	Material cable sheath	TPE-U(PUR)
Type of mounting Via lock nut Tightening torque 10 Nm Mounting type Partially flush	Material insulating sheath	PVC
Tightening torque 10 Nm Mounting type Partially flush	Size	M8
Mounting type Partially flush	Type of mounting	Via lock nut
	Tightening torque	10 Nm
Product weight 77 g	Mounting type	Partially flush
	Product weight	77 g

Feature	Value
Material housing	PA High-alloy stainless steel
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	4 - Very high corrosion stress
Additional information for sensor selection	Reduction factor 1, resistant to magnetic fields
Electrical output	NPN
Selection of sensor design	Standard