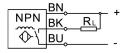
## Proximity sensor SIEN-M8B-NS-K-L Part number: 150384

**FESTO** 





## **Data sheet**

Symbol 00991704 Certification RCM compliance mark cult us - Listed (OL) c EE marking (see declaration of conformity) Note on materials RoHS-compliant Rated operating distance 1.5 mm Rasured operating distance 1.21 mm Reduction factors Reduction factors Reduction factors Reduction factors Repetition accuracy under constant conditions O.07 mm Repetition accuracy under constant conditions N/O contact Hysteresis Switching element function N/O contact Hysteresis 0.07 mm Max. switching frequency Sound Assured operating distance Residual ripple Residual rippl	Feature	Value
Certification RCM compliance mark cut us - Listed (OL) CE marking (see declaration of conformity) As per EU EMC directive Note on materials RoHS-compliant Rated operating distance 1.5 mm Assured operating distance 1.21 mm Reduction factors Aluminum = 0.25 Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0 Ambient temperature 2.5 °C 70 °C Repetition accuracy under constant conditions Switching output NPN Switching element function N/O contact Hysteresis 4.0.07 mm Max. switching frequency 5000 Hz Max. output current 200 mA Voltage drop 4.2 V Installed Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple did current 4.10 mA Reverse polarity protection Cable Cable length Reverse polarity protection Cable Cable length Material of cable sheath TPE-U(PUR) Size Type of mounting Mounting type Floush High-alloy stainless steel	Conforms to standard	EN 60947-5-2
CUL us - Listed (OL)  Ete marking (see declaration of conformity)  As per EU EMC directive  Roths compliant  Rated operating distance  1.5 mm  Assured operating distance  1.21 mm  Reduction factors  Aluminum - 0.25 Stainless steel St 18/8 = 0.7 Copper - 0.2 Brass - 0.35 Steel St 37 = 1.0  Ambient temperature  25 °C 70 °C  Repetition accuracy under constant conditions  NPN  Switching output  NPN  Switching lement function  N/O contact  Hysteresis  40.07 mm  Max. switching frequency  5000 Hz  Max. output current  Voltage drop  22 V Inductive protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 · 30 V  Residual ripple  del current  \$10 mA  Reverse polarity protection  Cable length  Reverse polarity protection  Cable length  Max. and the selection of the current  Max. and the current  Size  Max. Max. In the current  Aluminum - 0.25  Stain Stalled  Short-circuit protection  Cable length  Action of call electrical connections  Electrical connection  Cable length  Material of cable sheath  Type of mounting  With lock nut  High-alloy stainless steel  High-alloy stainless steel	Symbol	00991704
Rote on materials Rated operating distance 1.5 mm  Assured operating distance 1.21 mm  Reduction factors  Aluminum = 0.25 Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0  Ambient temperature 2.5°C 70°C Repetition accuracy under constant conditions  O.07 mm  NPN  Switching output NPN  Switching element function N/O contact Hysteresis 4.0.07 mm  Max. switching frequency 5000 Hz Max. output current 200 mA  Voltage drop 42 V Inductive protective circuit Installed Short-circuit protection Pulsed Doc operating voltage range 10 V 30 V Residual ripple 4 10% Reverse polarity protection Goral electrical connection Cable length Reverse polarity protection Cable length TPE-U(PUR) Size Max. Installed Muchaller of maximum and the service of t	Certification	
Rated operating distance Assured operating distance Reduction factors Reduction factors Reduction factors Aluminum = 0.25 Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0  Ambient temperature -25 °C 70 °C Repetition accuracy under constant conditions 0.07 mm  NPN Switching output NPN Switching element function N/O contact Hysteresis -0.07 mm Max. switching frequency 5000 Hz Max. output current 200 mA Voltage drop -2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple -10% Idle current -10 mA Reverse polarity protection Fielertical connection Cable Cable length -10 Cable Cable length -10 Cable Assurance -10 Max 1  TPE-U(PUR) Size -10 Max 1  With lock nut Mounting type Flush Mounting type Flush Fl	CE marking (see declaration of conformity)	As per EU EMC directive
Assured operating distance  Reduction factors  Aluminum = 0.25 Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0  Ambient temperature  -25 °C 70 °C Repetition accuracy under constant conditions  0.07 mm  Switching output  NPN  Switching element function  N/O contact Hysteresis  40.07 mm  Max. switching frequency  Max. output current  200 mA  Voltage drop  22 V Inductive protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  4 10 % Reverse polarity protection  For all electrical connections  Electrical connection  Cable  Cable length  Maxerial of cable sheath  TPE-U(PUR)  Size  Max1  Type of mounting  Mounting type  Flush  Flouding material  PA High-alloy stainless steel	Note on materials	RoHS-compliant
Reduction factors  Aluminum = 0.25 Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0  Ambient temperature  -25 °C 70 °C  Repetition accuracy under constant conditions  O.07 mm  NPN  Switching output  NPN  Switching element function  N/O contact  Hysteresis  0.07 mm  Max. switching frequency  5000 Hz  Max. switching frequency  100 mA  Woltage drop  12 V  Installed  Short-circuit protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  10%  Idle current  10 mA  Reverse polarity protection  For all electrical connections  Electrical connection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Housing material  PA High-alloy stainless steel	Rated operating distance	1.5 mm
Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35 Steel St 37 = 1.0  Ambient temperature	Assured operating distance	1.21 mm
Repetition accuracy under constant conditions  O.07 mm  Switching output  NPN  Switching element function  N/O contact  4-ysteresis  \$0.07 mm  Max. switching frequency  5000 Hz  Max. output current  200 mA  Voltage drop  \$2 V  Inductive protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  \$10 %  Reverse polarity protection  For all electrical connections  Electrical connection  Cable  Cable length  Material of cable sheath  TPE-U(PUR)  Size  Max1  Mounting type  Flush  Mounting type  Flush  Porduct weight  Housing material  PA  High-alloy stainless steel	Reduction factors	Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35
Switching output  Switching element function  N/O contact  40.07 mm  Max. switching frequency  So00 Hz  Max. output current  200 mA  Voltage drop  \$2 V  Inductive protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  \$10 mA  Reverse polarity protection  For all electrical connections  Electrical connection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  Max1  Mounting type  Flush  Product weight  Housing material  PA  High-alloy stainless steel	Ambient temperature	-25 °C 70 °C
Switching element function  My contact  # Hysteresis  # 50.07 mm  # 5000 Hz  # 5000 Hz  # 5000 Mz  # 5000 Mz  # 5000 Max. output current  # 50	Repetition accuracy under constant conditions	0.07 mm
Hysteresis \$ \text{s0.07 mm}\$  Max. switching frequency \$ 5000 Hz\$  Max. output current \$ 200 mA\$  Voltage drop \$ \text{s2 V}\$  Inductive protective circuit Installed  Short-circuit protection Pulsed  DC operating voltage range \$ 10 \ \text{v} 30 \ \text{V}\$  Residual ripple \$ \text{s10} \mathred{max}\$  Idle current \$ \text{s10} \mathred{max}\$  Reverse polarity protection for all electrical connections  Electrical connection Cable  Cable length \$ 2.5 m\$  Material of cable sheath TPE-U(PUR)  Size \$ \text{M8x1}\$  Type of mounting \$ \text{With lock nut}\$  Housing material \$ 23  \text{g}\$  PA  High-alloy stainless steel	Switching output	NPN
Max. switching frequency  Max. output current  200 mA  Voltage drop  22 V  Inductive protective circuit  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  ± 10%  Idle current  410 mA  Reverse polarity protection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  Mounting type  Flush  Product weight  Housing material  PA  High-alloy stainless steel	Switching element function	N/O contact
Max. output current  200 mA  Voltage drop  52 V  Inductive protective circuit  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  \$10 mA  Reverse polarity protection  for all electrical connections  Electrical connection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  Mounting type  Flush  Product weight  Housing material  PA  High-alloy stainless steel	Hysteresis	≤0.07 mm
Voltage drop  s2 V  Inductive protective circuit  Installed  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Residual ripple  \$10 mA  Reverse polarity protection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  Mounting type  Flush  Housing material  PA  High-alloy stainless steel	Max. switching frequency	5000 Hz
Installed Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple ± 10% Idle current 410 mA Reverse polarity protection Cable Cable length Cable sheath TPE-U(PUR) Size Material of cable sheath Type of mounting Mounting type Flush Product weight Housing material Installed In Natalled In Natalled In Stalled I	Max. output current	200 mA
Short-circuit protection  DC operating voltage range  10 V 30 V  Residual ripple  ± 10%  Idle current  ≤10 mA  Reverse polarity protection  Electrical connection  Cable  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  53 g  Housing material  PA  High-alloy stainless steel	Voltage drop	≤2 V
DC operating voltage range  Residual ripple  ± 10%  Idle current  ≤10 mA  Reverse polarity protection  For all electrical connections  Electrical connection  Cable  Cable  Cable length  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  For all electrical connections  Flush  Flush  Flush  PA  High-alloy stainless steel	Inductive protective circuit	Installed
Residual ripple ± 10% Idle current ≤10 mA Reverse polarity protection for all electrical connections Electrical connection Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M8x1 Type of mounting With lock nut Mounting type Flush Product weight 53 g Housing material PA High-alloy stainless steel	Short-circuit protection	Pulsed
Idle current   ≤10 mA	DC operating voltage range	10 V 30 V
Reverse polarity protection  Electrical connection  Cable  Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  Housing material  PA  High-alloy stainless steel	Residual ripple	± 10%
Electrical connection  Cable Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  Foduct weight  PA  High-alloy stainless steel	Idle current	≤10 mA
Cable length  2.5 m  Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  Foduct weight  PA  High-alloy stainless steel	Reverse polarity protection	for all electrical connections
Material of cable sheath  TPE-U(PUR)  Size  M8x1  Type of mounting  With lock nut  Mounting type  Flush  Product weight  Housing material  PA  High-alloy stainless steel	Electrical connection	Cable
M8x1 Type of mounting With lock nut  Mounting type Flush Product weight 53 g Housing material PA High-alloy stainless steel	Cable length	2.5 m
Type of mounting With lock nut  Mounting type Flush  Product weight 53 g  Housing material PA High-alloy stainless steel	Material of cable sheath	TPE-U(PUR)
Mounting type Flush Product weight 53 g Housing material PA High-alloy stainless steel	Size	M8x1
Product weight 53 g  Housing material PA High-alloy stainless steel	Type of mounting	With lock nut
Housing material PA High-alloy stainless steel	Mounting type	Flush
High-alloy stainless steel	Product weight	53 g
Switching status indication LED yellow	Housing material	
	Switching status indication	LED yellow

Feature	Value
Ambient temperature with flexible cable installation	-5 °C 70 °C
Degree of protection	IP65 IP67
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Selection of additional sensor information	With standard switching distance
Electrical output	NPN
Selection of sensor version	Standard