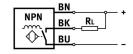
Proximity sensor SIEN-M8B-NS-K-L

Part number: 150384







General operating condition

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 NPN Switching output NPN Switching output NPN Max. switching frequency Sound Frequency Frequency Frequency Sound Frequency	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 M8x1 Type of mounting Mounting type Flush F	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 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 4 10 % Reverse polarity protection 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 Max. switching frequency So00 Hz Max. output current 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 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 Mz # 5000 Max # 500	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 M8x1 Type of mounting With lock nut Mounting type Flush Product weight \$ 53 g\$ Housing material 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 ℃ 70 ℃
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