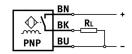
Proximity sensor SIEN-M8B-PS-K-L

Part number: 150386







General operating condition

Data sheet

Symbol 00991702 Certification RCM compliance mark cUL 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 Assured operating distance 1.21 mm Reduction factors Aluminum = 0.25 Stainless steel \$1 8 / 8 = 0.7 Copper = 0.2 Brass = 0.35 Steel \$3 7 = 1.0 Ambient temperature 25 ° C 70 ° C Repetition accuracy under constant conditions 0.07 mm Switching output PNP Switching output PNP Switching fequency 5000 Hz Max. switching frequency 5000 Hz Max. switching frequency 5000 Mz Max. output current 200 mA Voltage drop 22 V Inductive protective circuit Installed DC operating voltage range 10 % 30 V Residual ripple 1 10% Idle current 1	Feature	Value
Certification RCM compliance mark c UL 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 O.07 mm Switching output PNP Switching element function N/O contact Hysteresis 3.000 Hz 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 Idle current 2.5 m Reverse polarity protection Cable Cable length Reverse polarity protection Cable length Max. In PE-U(PUR) Size Max. In Hybra and Installed Mounting type Floush Housing material Flousing material	Conforms to standard	EN 60947-5-2
CUL us - Listed (OL) Ete 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 25 °C 70 °C Repetition accuracy under constant conditions Switching output PNP Switching output PNP Switching lement function N/O contact Hysteresis 8.0.07 mm Max. switching frequeny 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 Assured operating distance 13 ms. Type of mounting With lock nut High-alloy stainless steel High-alloy stainless steel	Symbol	00991702
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 Switching output PNP 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 DC operating voltage range 10 V 30 V Residual ripple 4 10% Reverse polarity protection Grall electrical connection Cable length Reverse polarity protection Cable length TPE-U(PUR) Size Max. Installed Muching type Flush Housing material PA High-alloy stainless steel	Certification	
Rated operating distance 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 O.07 mm Switching output PNP Switching element function N/O contact Hysteresis -0.07 mm Max. switching frequency 5000 Hz Max. output current 200 mA Voltage drop Inductive protective circuit Installed Short-circuit protection D. Operating voltage range 10 V 30 V Residual ripple -10% Idle current 210 mA Reverse polarity protection Fulsed Cable Cable Cable Cacle Cable Cable Ingth Max: Type of mounting Mounting type Flush Mounting type Flush Mounting type Flush Mounting type Flush Product weight PA High-alloy stainless steel	CE marking (see declaration of conformity)	As per EU EMC directive
Assured operating distance 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 Switching output PNP Switching element function N/O contact Hysteresis 30.07 mm Max. switching frequency 5000 Hz 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 2 10 % Idle current \$10 mA Reverse polarity protection Cable Cable length Acable length Acable length TPE-U(PUR) Size M8x1 Type of mounting Mounting type Flush Product weight Flush Froduct weight Flush Froduct weight Flush Froduct weight 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 Switching output PNP Switching element function N/0 contact Hysteresis 40.07 mm Max. switching frequency 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 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 -25 °C 70 °C Repetition accuracy under constant conditions 0.07 mm Switching output PNP Switching element function N/O contact Hysteresis s0.07 mm Max. switching frequency 5000 Hz Max. output current 200 mA Voltage drop 12 V Installed Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Residual ripple 10 V 30 V Reverse polarity protection For all electrical connections Electrical connection Cable Electrical connection Cable Gable 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	Assured operating distance	1.21 mm
Repetition accuracy under constant conditions O.07 mm Switching output PNP Switching element function N/O contact #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 % Relectrical connection Cable length Aceverse polarity protection Cable length Material of cable sheath TPE-U(PUR) Size Max1 Mounting type Flush Mounting type Flush Poagmaterial PA High-alloy stainless steel	Reduction factors	Stainless steel St 18/8 = 0.7 Copper = 0.2 Brass = 0.35
Switching output PNP Switching element function N/O contact Hysteresis \$ \text{c0.07 mm}\$ Max. switching frequency \$ 5000 Hz\$ 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 \$ 10 M\$ 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 type Flush Product weight 53 g Housing material PA High-alloy stainless steel	Ambient temperature	-25 ℃ 70 ℃
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 Short-circuit protection Pulsed DC operating voltage range \$10 V 30 V Residual ripple \$10 mA Reverse polarity protection Gable 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	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}\$ Installed Short-circuit protective circuit Installed Pulsed DC operating voltage range \$ 10 \text{ V 30 V}\$ Residual ripple \$ \text{s10 mA}\$ Reverse polarity protection for all electrical connections Electrical connection \$ \text{cable}\$ Elettrical connection \$ \text{cable}\$ Cable Cable length \$ \text{2.5 m}\$ Material of cable sheath \$ \text{TPE-U(PUR)}\$ Size \$ \text{M8x1}\$ Type of mounting \$ \text{With lock nut}\$ Housing material \$ \text{53 g}\$ Housing material \$ \text{PA}\$ High-alloy stainless steel	Switching output	PNP
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 \$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 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	Hysteresis	≤0.07 mm
Voltage drop s2 V Inductive protective circuit 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 type Flush Product weight Housing material PA High-alloy stainless steel	Max. switching frequency	5000 Hz
Inductive protective circuit Short-circuit protection DC operating voltage range 10 V 30 V Residual ripple ± 10% Idle current \$10 mA Reverse polarity protection Cable Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M8x1 Type of mounting Mounting type Flush Product weight Fush Housing material PA High-alloy stainless steel	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 length TPE-U(PUR) Size M8x1 Type of mounting With lock nut Mounting type Flush Product weight Flush Housing material 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
Aldle current In the series of the serie	DC operating voltage range	10 V 30 V
Reverse polarity protection for all electrical connections Electrical connection Cable Cable 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	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 Found in the standard of the stand	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 Foduct weight Housing material PA High-alloy stainless steel	Electrical connection	Cable
Size 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	PNP
Selection of sensor version	Standard