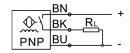
## Proximity sensor SIEN-M8B-PS-K-L

**FESTO** 

Part number: 150386





## **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 10 % Reverse polarity protection Pulsed Peverse polarity protection Gable Cable length 2.5 m Material of cable sheath TPE-UPUR) Size MaxIII of the control	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  Poal  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