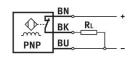
Proximity sensor SIEH-M12B-PO-K-L

Part number: 150454







Data sheet

Certification Circle c Ut. us - Listed (Ot.) CE marking (see declaration of conformity) As per EU EMC directive Rated operating distance 4 mm Assured operating distance Reduction factors Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature 2-25 °C70 °C Repetition accuracy under constant conditions 0.2 mm Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 250 Hz Max. output current 200 mA Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 V Residual ripple dide current 10 mA Reverse polarity protection Cable Cable length 10 resident in the content of the content of the current of the curre	Feature	Value
c UL us - Listed (OL) CE marking (see declaration of conformity) As per EU EMC directive As mm Assured operating distance Reduction factors Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature -25 °C70 °C Repetition accuracy under constant conditions Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. untput current 200 mA Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection DC operating voltage range 10 V30 V Residual ripple 2 10 m Reverse polarity protection Cable current 10 mA Reverse polarity protection Cable length Attention Material of cable sheath TPE-U(PUR) Size Muterial of cable sheath Flush Mounting type Flush	Conforms to standard	EN 60947-5-2
Rated operating distance Assured operating distance Reduction factors Reduction factors Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature -25 °C70 °C Repetition accuracy under constant conditions 0.2 mm Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop 10 V30 V Residual ripple 10 V30 V Residual ripple 10 mA Reverse polarity protection For all electrical connection Cable Cable length TPE-U(PUR) Size Mounting type Flush Municipal Staines Aluminum = 0.4 Staines = 0.8 Copper = 0.4 Brass = 0.5 Stainles = 5 to 8 Stainless = 5 to 8 Sta	Certification	1
Assured operating distance Reduction factors Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature -25 °C70 °C Repetition accuracy under constant conditions Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop Inductive protective circuit Installed Short-circuit protection DC operating voltage range 10 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Cable length Material of cable sheath TPE-U(PUR) Size M12 Type of mounting Mounting type Flush Mounting type	CE marking (see declaration of conformity)	As per EU EMC directive
Reduction factors Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature -25 °C70 °C Repetition accuracy under constant conditions 0.2 mm Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 v30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Electrical connection Cable length Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 Electrical confection Cable Cable length Aluminum = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Stainless steel St 18/8 Electrical connection Cable Cable length Aluminum = 0.4 Brass = 0.5 Steel St 37 = 1.0 Aluminum = 0.4 Steel St 18/8 = 0.8 Steel St 37 = 1.0 Aluminum = 0.4 Steel St 18/8 = 0.8 Steel St 37 = 1.0 Aluminum = 0.4 Steel St 18/8 = 0.8 Steel St 18/8 = 0.8 Steel St 37 = 1.0 Aluminum = 0.4 Steel St 18/8 = 0.8 Steel St	Rated operating distance	4 mm
Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5 Steel St 37 = 1.0 Ambient temperature -25 °C70 °C Repetition accuracy under constant conditions 0.2 mm Switching output PNP Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Electrical connection Cable Electrical connection Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting Mounting type Flush	Assured operating distance	3.24 mm
Repetition accuracy under constant conditions O.2 mm Switching output PNP Switching element function N/C contact Hysteresis O.36 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 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection For all electrical connections Electrical connection Cable Cable length Material of cable sheath TPE-U(PUR) Size M12 Type of mounting type Flush Mounting type	Reduction factors	Stainless steel St 18/8 = 0.8 Copper = 0.4 Brass = 0.5
Switching output PNP Switching element function N/C contact N/C contact N/C contact N/C contact O.36 mm Max. switching frequency Max. output current 200 mA Voltage drop Inductive protective circuit Short-circuit protection Pulsed DC operating voltage range 10 V30 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 M12 Type of mounting Mounting type Flush	Ambient temperature	-25 °C70 °C
Switching element function N/C contact Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop 1 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 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 M12 Type of mounting type Flush	Repetition accuracy under constant conditions	0.2 mm
Hysteresis 0.36 mm Max. switching frequency 2500 Hz Max. output current 200 mA Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 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 M12 Type of mounting type Flush	Switching output	PNP
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 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection For all electrical connections Electrical connection Cable Cable length Material of cable sheath TPE-U(PUR) Size M12 Type of mounting Mounting type Flush	Switching element function	N/C contact
Max. output current 200 mA Voltage drop 2 V Inductive protective circuit Short-circuit protection Pulsed DC operating voltage range 10 V30 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 M12 Type of mounting With lock nut House Flush	Hysteresis	0.36 mm
Voltage drop 2 V Inductive protective circuit Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 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 M12 Type of mounting type Flush	Max. switching frequency	2500 Hz
Installed Short-circuit protection Pulsed DC operating voltage range 10 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Electrical connection Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting Mounting type Flush Installed Pulsed Installed Pulsed Pulsed Pulsed Pulsed Pulsed Pulsed Pulsed 20 V30 V Et 10% Cable £ 10% Et 20 mA To mA To mA For all electrical connections Cable Cable With lock nut Flush	Max. output current	200 mA
Short-circuit protection DC operating voltage range 10 V30 V Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Electrical connection Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting Mounting type Flush	Voltage drop	2 V
DC operating voltage range Residual ripple ± 10% Idle current 10 mA Reverse polarity protection Electrical connection Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting With lock nut Mounting type Flush	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 M12 Type of mounting With lock nut Mounting type Flush	Short-circuit protection	Pulsed
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 M12 Type of mounting With lock nut Mounting type Flush	DC operating voltage range	10 V30 V
Reverse polarity protection for all electrical connections Electrical connection Cable Cable ength 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting With lock nut Mounting type Flush	Residual ripple	± 10%
Electrical connection Cable Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting With lock nut Mounting type Flush	Idle current	10 mA
Cable length 2.5 m Material of cable sheath TPE-U(PUR) Size M12 Type of mounting With lock nut Mounting type Flush	Reverse polarity protection	for all electrical connections
Material of cable sheath TPE-U(PUR) Size M12 Type of mounting With lock nut Mounting type Flush	Electrical connection	Cable
Size M12 Type of mounting With lock nut Mounting type Flush	Cable length	2.5 m
Type of mounting With lock nut Mounting type Flush	Material of cable sheath	TPE-U(PUR)
Mounting type Flush	Size	M12
	Type of mounting	With lock nut
Product weight 110 g	Mounting type	Flush
	Product weight	110 g

Feature	Value
Housing material	Brass PBTP Nickel-plated
Switching status indication	LED yellow
Ambient temperature with flexible cable installation	-5 °C70 °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 increased switching distance
Electrical output	PNP
Selection of sensor version	Standard