# Product datasheet Characteristics

## XS612B1PAM12

inductive sensor XS6 M12 - L62mm - brass - Sn4mm - 12..48VDC - M12





#### Main

Range of product OsiSense XS  Series name General purpose  Sensor type Inductive proximity sensor  Device application Mobile equipment  Sensor name XS6  Sensor design Cylindrical M12  Size 62 mm  Body type Fixed  Detector flush mounting acceptance Flush mountable  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance 4 mm  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  [Lest can connection Male connector M12 4 pins  [Lest] rated supply voltage 1248 V DC with reverse polarity protection  Switching capacity in mA <= 200 mA DC with overload and short-circuit protection  IP degree of protection IP67 conforming to IEC 60529 IP69K conforming to DIN 40050		
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Type of output signal  Discrete  Wiring technique  3-wire  [Sn] nominal sensing distance  4 mm  Discrete output function  1 NO  Output circuit type  DC  Discrete output type  PNP  Electrical connection  Male connector M12 4 pins  [Us] rated supply voltage  1248 V DC with reverse polarity protection  Switching capacity in mA  <= 200 mA DC with overload and short-circuit protection	Detector flush mounting acceptance	Flush mountable
Wiring technique  [Sn] nominal sensing distance  4 mm  Discrete output function  1 NO  Output circuit type  DC  Discrete output type  PNP  Electrical connection  Male connector M12 4 pins  [Us] rated supply voltage  1248 V DC with reverse polarity protection  Switching capacity in mA  <= 200 mA DC with overload and short-circuit protection	Material	Metal
Solution   Solution	Type of output signal	
Discrete output function 1 NO Output circuit type DC Discrete output type PNP Electrical connection Male connector M12 4 pins [Us] rated supply voltage 1248 V DC with reverse polarity protection Switching capacity in mA <= 200 mA DC with overload and short-circuit protection	Wiring technique	3-wire
Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12 4 pins  [Us] rated supply voltage 1248 V DC with reverse polarity protection  Switching capacity in mA <= 200 mA DC with overload and short-circuit protection	[Sn] nominal sensing distance	4 mm
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	Switching capacity in mA	
	IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

## Complementary

o o p . o o		
Thread type	M12 x 1	
Detection face	Frontal	
Front material	PPS	·
Enclosure material	Nickel plated brass	

Operating zone	03.2 mm
Differential travel	115% of Sr
Status LED	1 LED (yellow) for output state
Supply voltage limits	1058 V DC
Switching frequency	<= 2500 Hz
Voltage drop	<= 2 V, closed state
Current consumption	<= 10 mA (no-load)
Delay first up	<= 10 ms
Delay response	<= 0.2 ms
Delay recovery	<= 0.2 ms
Marking	CE
Threaded length	42 mm
Length	62 mm
Product weight	0.02 kg

## Environment

Product certifications	CSA
	UL
	E2
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn, amplitude: +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27

## Offer Sustainability

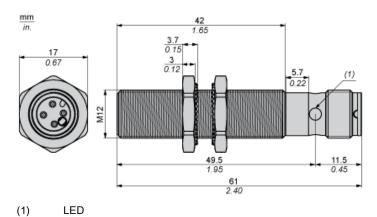
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0805 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	End of Life Information
Product end of life instructions	Available

#### Contractual warranty

o management		
Warranty period	18 months	

# XS612B1PAM12

## **Dimensions**

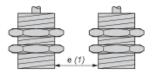


# Product datasheet Mounting and Clearance

## XS612B1PAM12

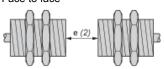
## Minimum Mounting Distances

## Side by side

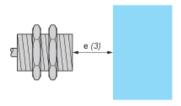


e (1) ≥ 8 mm/0.31 in.

Face to face



e (2) ≥ 48 mm/1.89 in. Facing a metal object



e (3)  $\geq$  12 mm/0.47 in.

# Product datasheet Connections and Schema

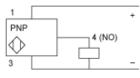
## XS612B1PAM12

## Wiring Schemes

#### M12 connector



### PNP



- 1 : (+) 2 : Not connected
- 3 : (-) 4 : NO Output