## Product data sheet 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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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	
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	
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Switching capacity in mA <= 200 mA DC with overload and short-circuit protection	[Us] rated supply voltage	1248 V DC with reverse polarity protection	
TD 1	Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection	
	IP degree of protection		

#### Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS

Enclosure material	Nickel plated brass	
Sensing range	> 2.54 mm	
Operating zone	03.2 mm	
Differential travel	115% of Sr	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	1058 V DC	
Switching frequency	<= 2500 Hz	
Maximum voltage drop	<2 V (closed)	
Current consumption	<= 10 mA no-load	
Maximum delay first up	10 ms	
Maximum delay response	0.2 ms	
Maximum delay recovery	0.2 ms	
Marking	CE	
Threaded length	42 mm	
Length	62 mm	
Net weight	0.02 kg	

#### Environment

Product certifications	E2	
	CSA	
	UL	
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 for 11 ms conforming to IEC 60068-2-27	

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	29 g
Package 1 Height	6.5 cm
Package 1 width	9.5 cm
Package 1 Length	4.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Weight	1.881 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	704
Package 3 Weight	43.236 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 cm

## Offer Sustainability

Green Premium product	
REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Yes	
Yes	
	REACh Declaration  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration  Yes

Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

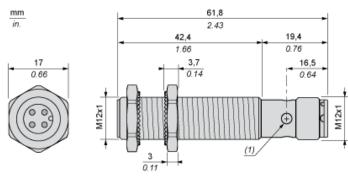
#### Contractual warranty

Warranty	18 months	

# Product data sheet Dimensions Drawings

# XS612B1PAM12

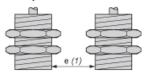
#### Dimensions



# XS612B1PAM12

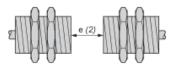
## Minimum Mounting Distances

#### Side by side

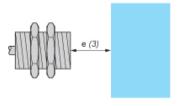


e (1)  $\geq$  8 mm/0.31 in.

Face to face



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



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

## Product data sheet Connections and Schema

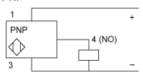
# XS612B1PAM12

## Wiring Schemes

#### M12 connector



#### PNP



1: (+) 2: Not connected

3: (-) 4: NO Output