

## Product data sheet

### Characteristics

# XS512B1PAL5

inductive sensor XS5 M12 - L35mm - brass -  
Sn2mm - 12..24VDC - cable 5m

Product availability : Non-Stock - Not normally stocked in distribution facility



Price\* : 63.04 USD



### Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS5
Sensor design	Cylindrical M12
Size	37 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	0.08 in (2 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	cable
Cable length	16.40 ft (5 m)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Switching capacity in mA	<= 200 mA DC overload and short-circuit protection
IP degree of protection	IP68 double insulation IEC 60529 IP69K DIN 40050

### Complementary

Thread type	M12 x 1
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\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0.00...0.06 in (0...1.6 mm)
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	Output state 1 LED yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Marking	CE
Threaded length	0.98 in (25 mm)
Height	0.47 in (12 mm)
Length	1.38 in (35 mm)
Net weight	0.43 lb(US) (0.195 kg)

## Environment

Product certifications	CSA UL
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	25 gn +/- 2 mm 10...55 Hz)IEC 60068-2-6
Shock resistance	50 gn 11 ms IEC 60068-2-27

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	03389110127720
Nbr. of units in pkg.	1
Package weight(Lbs)	0.37 lb(US) (0.17 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.54 in (3.9 cm)
Package 1 width	5.08 in (12.9 cm)
Package 1 Length	5.24 in (13.3 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	5.93 oz (168 g)
Package 2 Height	1.77 in (4.5 cm)
Package 2 width	9.84 in (25 cm)
Package 2 Length	7.87 in (20 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	22
Package 3 Weight	7.94 lb(US) (3.6 kg)

Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

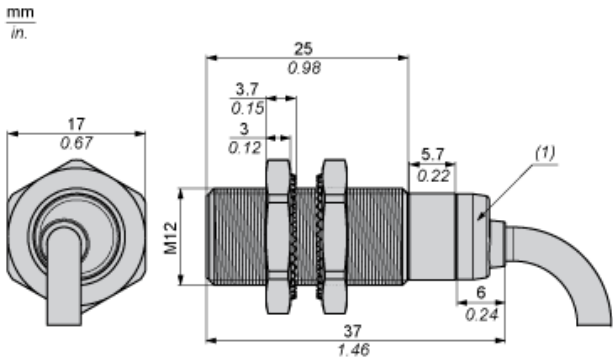
### Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

### Contractual warranty

Warranty	18 months
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Dimensions



(1) LED

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### Minimum Mounting Distances

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Side by side



$e (1) \geq 4 \text{ mm}/0.16 \text{ in.}$

Face to face



$e (2) \geq 24 \text{ mm}/0.94 \text{ in.}$

Facing a metal object

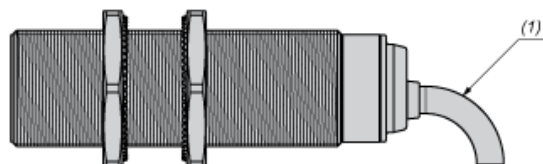


$e (3) \geq 6 \text{ mm}/0.24 \text{ in.}$

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Mounting

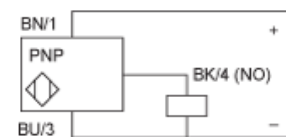
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(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

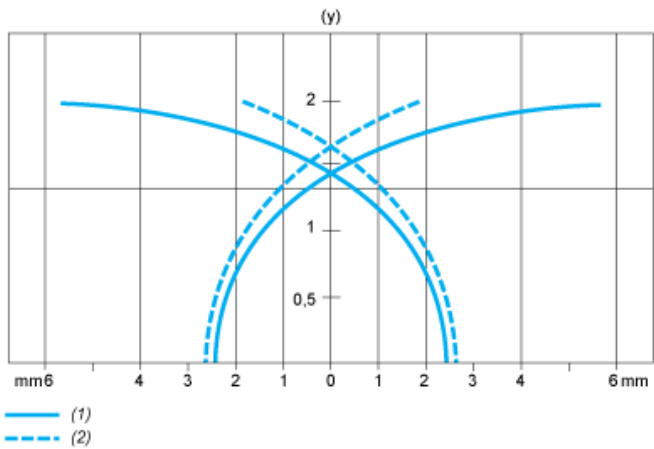
PNP



BU : Blue  
BN : Brown  
BK : Black

Performance Curves

Standard Steel Target : 12x12x1 mm



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm