

# XT130B1FBL2

capacitive sensor - XT1 - cylindrical M30 -  
brass - Sn 10 mm - cable 2 m



## Main

Range of product	OsiSense XT
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT1
Sensor design	Cylindrical M30
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel Plated Brass
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	0.39 in (10 mm)
Discrete output function	1 NC
Output circuit type	AC
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	24...240 V AC 50...60 Hz
Maximum delay response	20 ms
IP degree of protection	IP67 IEC 60529 IP67 IEC 60947-5-2

## Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
[Sa] assured operating distance	0.00...0.28 in (0...7.2 mm)
Adjustment zone	0.08...0.59 in (2...15 mm)
Differential travel	< 0.2 x Sr
Repeat accuracy	< 0.1 x Sr
Wire insulation material	PVC
Status LED	Output state indication 1 LED yellow)
Supply voltage limits	20...264 V AC
Maximum residual current	5 mA open state
Switching frequency	<= 25 Hz
Maximum voltage drop	<6 V closed)
Current consumption	< 3 mA
Maximum delay first up	100 ms
Maximum delay recovery	20 ms
Maximum switching current	330 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	2.17 in (55 mm)
Length	2.76 in (70 mm)
Net Weight	0.60 lb(US) (0.27 kg)

## Environment

Standards	EN/IEC 60947-5-2
Product certifications	CETLus
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Vibration resistance	10 gn 1 mm 10...55 Hz)IEC 60068-2-6
Shock resistance	30 gn 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	4 KV contact IEC 61000-4-2 8 kV air IEC 61000-4-2
Resistance to electromagnetic fields	2.74 V/m (3 V/m) IEC 61000-4-3
Resistance to fast transients	2 kV IEC 61000-4-4




## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	00785901631446
Nbr. of units in pkg.	1
Package weight(Lbs)	0.61 lb(US) (0.28 kg)
Returnability	Yes
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.38 in (3.5 cm)
Package 1 width	6.02 in (15.3 cm)
Package 1 Length	6.26 in (15.9 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	25
Package 2 Weight	16.65 lb(US) (7.552 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

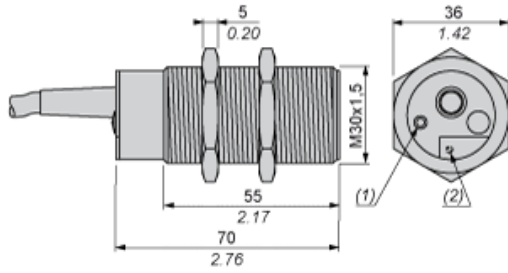
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>

## Contractual warranty

Warranty	18 months
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Dimensions

$\frac{\text{mm}}{\text{in.}}$



- (1) LED
- (2) Potentiometer beneath protective flap

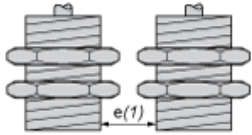
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## Setting-up

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### Minimum Mounting Distances (mm)

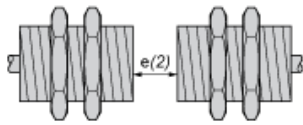
Side by side



$e(1) \geq 0$

$\geq$

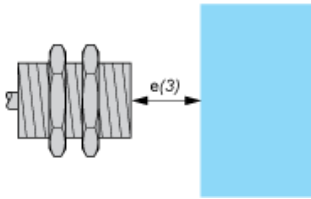
Face to face



$e(2) \geq 22$

$\geq$

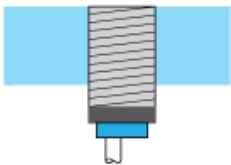
Facing a metal object



$e(3) \geq 20$

$\geq$

Mounted in support



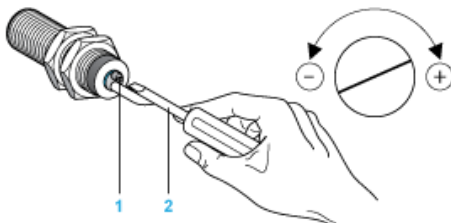
Fixing nut tightening torque: 40 N.m

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## Adjustment

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### Sensitivity Adjustment



- (1) Adjustment potentiometer
- (2) Screwdriver (included with sensor)

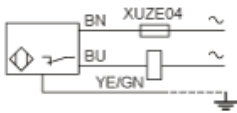
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Wiring Diagram

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Pre-cabled

2-wire AC NC Output



(BU) Blue  
(BN) Brown  
(YE/ Yellow/Green  
GN)