

# XS7C2A1NBM12

Inductive proximity sensors XS, inductive sensor XS7 40x40x70, PBT, Sn15 mm, 12...24 VDC, M12



## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS7
Sensor design	Form 40 x 40 x 70
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	15 mm
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050

## Complementary

Detection face	5 positions turret head
Front material	PBT
Operating zone	0...12 mm
Differential travel	3...15% of Sr
Repeat accuracy	<= 3% of Sr
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 300 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	0...15 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	1.2 ms
Maximum delay recovery	1.8 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	70 mm
Net weight	0.149 kg

## Environment

Product certifications	UL[RETURN]CSA[RETURN]E2[RETURN]CCC
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to EN 60068-2-27

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	4.2 cm
Package 1 Length	8.8 cm
Package 1 Weight	140 g
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	3.585 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	672
Package 3 Height	70 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	111.552 kg

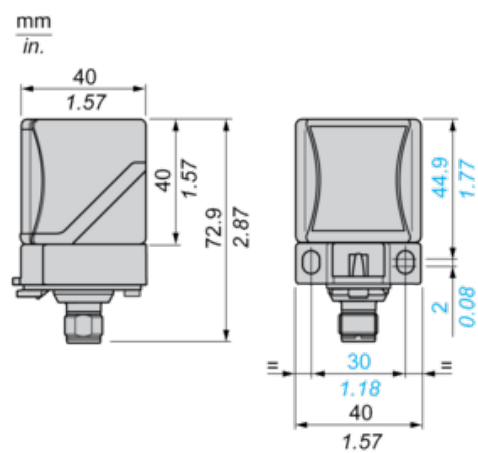
## Offer Sustainability

Circularity Profile	No need of specific recycling operations
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>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

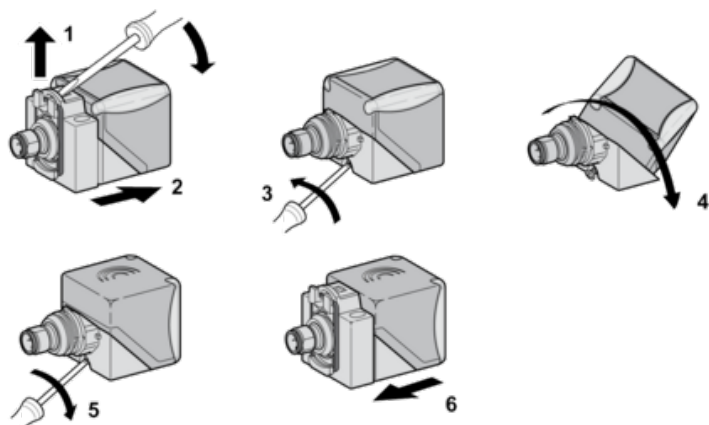
Warranty	18 months
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Dimensions



## Mounting

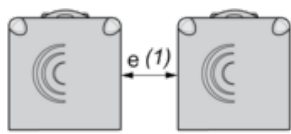
### Head Positions



### Setting-up Precautions

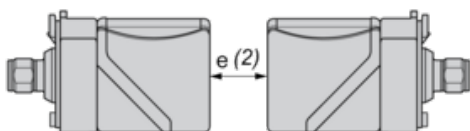
#### Minimum Mounting Distances (mm)

Side by Side



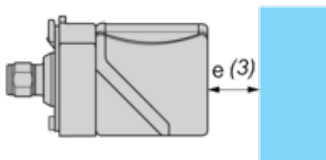
$$e(1) \geq 60$$

Face to Face



$$e(2) \geq 120$$

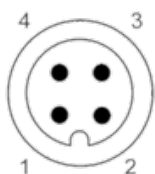
Facing a Metal Object



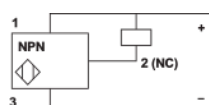
$$e(3) \geq 45$$

## Wiring Schemes

M12 connector



NPN



1 : (+)

2 : NC Output

3 : (-)

4 : Not connected