

Rotation monitoring for hazardous area dust,  
M30, Sn10mm, 120...3000c/mn, NC, cable 2 m



**Main**

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	Rotation monitoring ATEX dust
Sensor name	XSA
Sensor design	Cylindrical M30
Size	30 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	10 mm
Type of output signal	Discrete
Wiring technique	3-wire
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	12...48 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

**Complementary**

Thread type	M30 x 1.5
Detection face	Frontal
Front material	PPS
Sensing range	> 8...15 mm
Adjustable frequency range	120...3000 cyc/mn
Operating zone	0...8 mm
Differential travel	3...15% of Fr
Repeat accuracy	3% of Sr
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PVC
Status LED	Output state: 1 LED (red)
Supply voltage limits	10...58 V DC
Switching frequency	<= 800 Hz
Maximum voltage drop	<1.8 V (closed state)
Current consumption	0...15 mA no-load
Run-up delay at power-up	9 s standard
Marking	II2 D-Ex tb IIIC T90°C Db IP67
Threaded length	57 mm
Length	81 mm

## Environment

Environmental characteristic	Hazardous location
Standards	IEC 60079-31 IEC 60079-0
Directives	2014/34/EU - ATEX directive
Product certifications	IEC-Ex INE 17.0006[RETURN]INERIS 04ATEX0022
Ambient air temperature for operation	-20...60 °C
Dust zone	Zone 21 - 22

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.500 cm
Package 1 Width	11.200 cm
Package 1 Length	16.500 cm
Package 1 Weight	251.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.780 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
Circularity Profile	 <a href="#">End of Life Information</a>
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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>

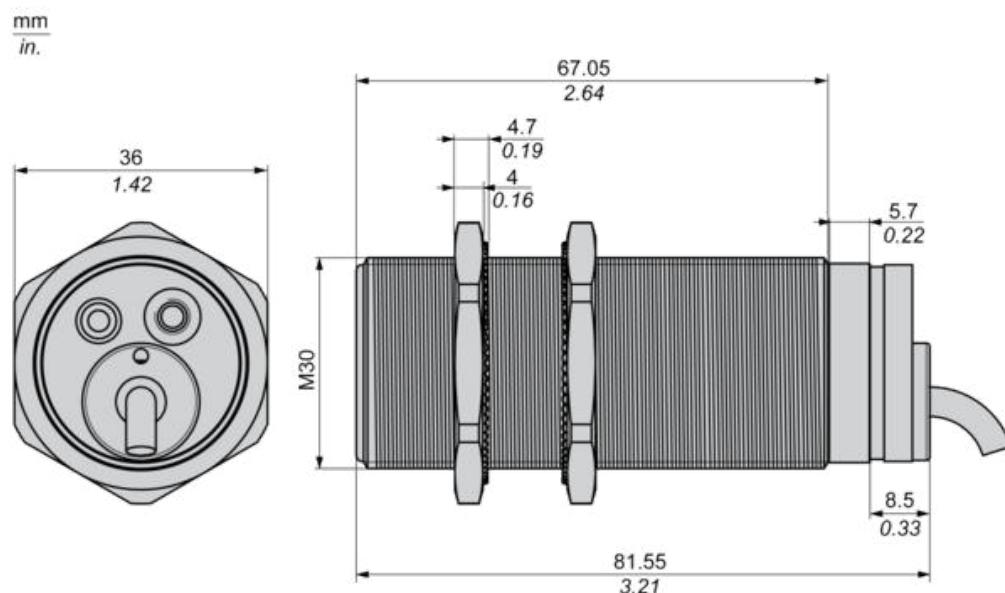
## Contractual warranty

Warranty	18 months
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Dimensions

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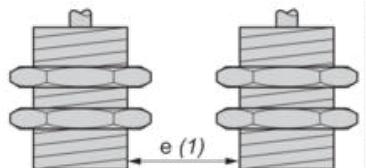


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Minimum Mounting Distances

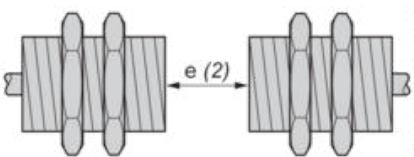
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Side by side



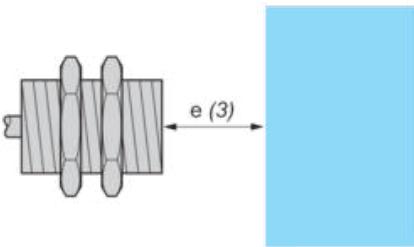
$e(1) \geq 20 \text{ mm/0.79 in}$

Face to face



$e(2) \geq 120 \text{ mm/4.72 in}$

Facing a metal object



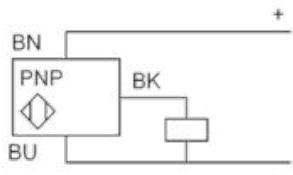
$e(3) \geq 30 \text{ mm/1.18 in.}$

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### Wiring Schemes

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#### 3-wire DC



BU : Blue

BN : Brown

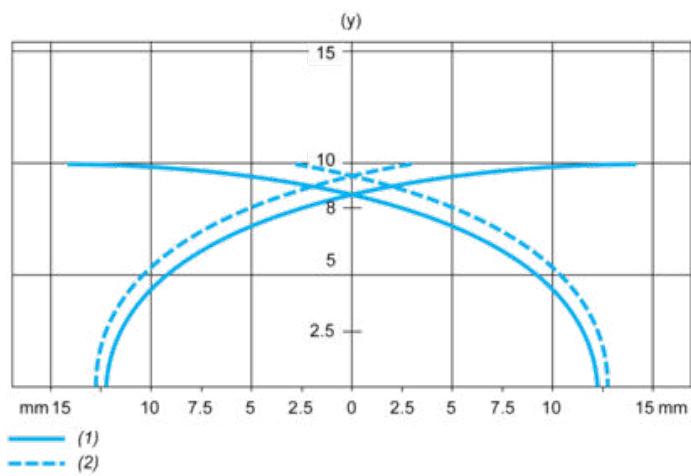
BK : Black

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Performance Curves

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Standard Steel Target : 30x30x1 mm



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