

# Product data sheet

Specifications



Inductive proximity sensors XS,  
Rotation monitoring, M30, Sn10mm,  
120...3000c/mn, 24...240VAC/DC,  
cable 2 m

XSAV02801

## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Product or component type	Sensor
Sensor type	Inductive proximity sensor
Device application	Rotation monitoring
Sensor name	XSA
Sensor design	Cylindrical M30
Size	81 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	10 mm
Discrete output function	1 NC
Output circuit type	AC/DC
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	24...210 V DC 24...240 V AC 50/60 Hz
Switching capacity in mA	5...200 mA DC 5...350 mA AC
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

<b>Adjustable frequency range</b>	120...3000 cyc/mn
<b>Operating zone</b>	0...8 mm
<b>Differential travel</b>	3...15% of Fr
<b>Repeat accuracy</b>	3% of Sr
<b>Cable composition</b>	2 x 0.34 mm <sup>2</sup>
<b>Wire insulation material</b>	PvR
<b>Status LED</b>	Output state: 1 LED (red)
<b>Supply voltage limits</b>	20...264 V AC/DC
<b>Maximum residual current</b>	1.5 mA open state
<b>Switching frequency</b>	<= 800 Hz
<b>Maximum voltage drop</b>	<5.7 V (closed)
<b>Run-up delay at power-up</b>	0 s without
<b>Marking</b>	CE
<b>Threaded length</b>	67 mm
<b>Length</b>	81 mm
<b>Net weight</b>	0.3 kg

## Environment

<b>Product certifications</b>	UL CCC CSA
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C

## Packing Units

<b>Unit Type of Package 1</b>	Db
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	13.0 cm
<b>Package 1 Width</b>	9.2 cm
<b>Package 1 Length</b>	4.6 cm
<b>Package 1 Weight</b>	226.0 g
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	9
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	15.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	2.24 kg

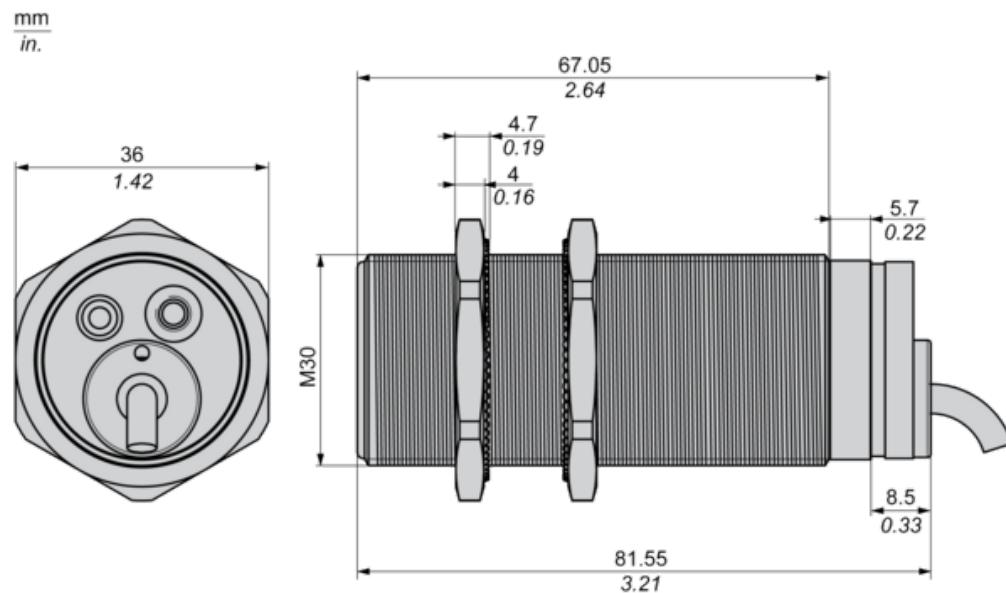
## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes

<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	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>

## Contractual warranty

<b>Warranty</b>	18 months
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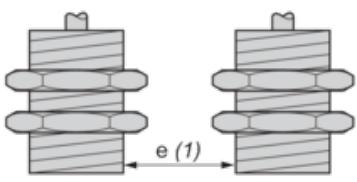
**Dimensions**

(1) LED

### Minimum Mounting Distances

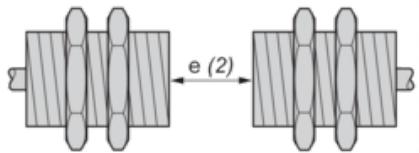
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Side by side



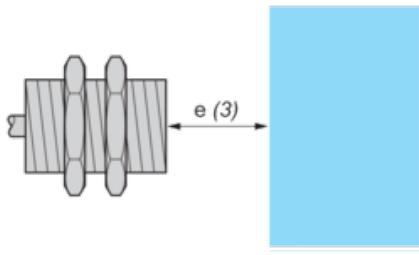
$e (1) \geq 20 \text{ mm/0.79 in}$

Face to face



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

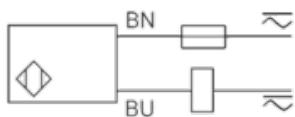
Facing a metal object



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

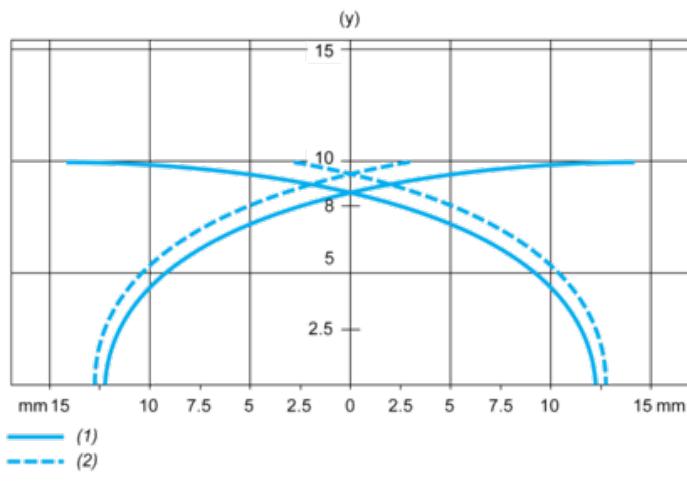
### Wiring Schemes

2-wire AC or DC



**BU** : Blue

**BN** : Brown

**Performance Curves****Standard Steel Target : 30x30x1 mm**

(1) Pick-up points

(2) Drop-out points (object approaching from the side)

(y) Sensing distance in mm

**Recommended replacement(s)**