

# Product data sheet

## Characteristics

# XXS30P1AM12

Ultrasonic sensors XX, ultrasonic sensor,  
plastic, cylindrical M30, straight, 1 m, 4...20 mA



### Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXS
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 M adjustable with remote teach push-button 1 M software with kit
Material	Plastic
Type of output signal	Analogue
Wiring technique	5-wire
Analogue output function	4...20 mA
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.105...1 M
IP degree of protection	IP65 conforming to IEC 60529 IP67

### Complementary

Enclosure material	PBT
Front material	Epoxy Rubber Resin
Supply voltage limits	10...30 V DC
Function available	With synchronisation mode Software configurable
[Sa] assured operating distance	0.105...1 M (teach mode)
Blind zone	105 Mm
Transmission frequency	200 KHz
Repeat accuracy	0.1 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Cylinder diameter 1 mm at 600 mm
Status LED	Output state: 1 LED (yellow) Echo state: 1 LED (green)
Current consumption	30 mA
Maximum switching capacity	250 Ohm with 12 V DC overload and short-circuit protection 850 Ohm with 24 V DC

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Setting-up	Teach mode Configurator software
Maximum delay first up	180 Ms
Maximum delay recovery	100 Ms
Marking	CE
Threaded length	39.95 Mm
Height	30 Mm
Width	30 Mm
Depth	64.35 Mm
Product weight	0.05 Kg

## Environment

Standards	EN/IEC 60947-5-2 CSA C22.2 No 14 UL 508
Product certifications	CULus E2 EAC RCM Ecolab
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 KV conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/M level 3 conforming to IEC 61000-4-3
Resistance to fast transients	2 KV conforming to IEC 61000-4-4

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
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	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</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>

## Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**

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