

# Product data sheet

Specifications



## ULTRASONIC SENSOR CYLINDRICAL M18 12 - 24V

XX318AA08KAL3

! Discontinued on: 08 December 2020

! Discontinued

### Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX3
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.0381 m fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	4-wire
Discrete output type	PNP/NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.038...0.0508 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

### Complementary

Enclosure material	PEI
Front material	Silicone
Thread type	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.038...0.0508 m
Maximum differential travel	12.7 mm
Blind zone	0...31.8 mm
Minimum size of detected object	Cylinder diameter 50.8 mm at 4.732 m
Status LED	Supply on: 1 LED (green)

Output state: 1 LED (amber)

<b>Current consumption</b>	100 mA
<b>Maximum switching current</b>	100 mA with overload and short-circuit protection
<b>Maximum voltage drop</b>	1 V
<b>Maximum delay first up</b>	20 ms
<b>Maximum delay response</b>	1.5 ms
<b>Maximum delay recovery</b>	1.5 ms
<b>Marking</b>	CE
<b>Height</b>	18 mm
<b>Width</b>	18 mm
<b>Depth</b>	95.5 mm

## Environment

<b>Standards</b>	IEC 60947-5-2
<b>Product certifications</b>	UL cCSAus
<b>Ambient air temperature for operation</b>	0...50 °C
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Vibration resistance</b>	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
<b>Shock resistance</b>	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
<b>Resistance to electrostatic discharge</b>	8 kV level 4 conforming to IEC 61000-4-2
<b>Resistance to electromagnetic fields</b>	10 V/m level 3 conforming to IEC 61000-4-3
<b>Resistance to fast transients</b>	1 kV level 3 conforming to IEC 61000-4-4

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Offer Sustainability

<b>EU RoHS Directive</b>	Not applicable, out of EU RoHS legal scope
<b>California proposition 65</b>	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>

## Recommended replacement(s)

XX318AA08KAL3 is replaced by:

1x



Ultrasonic sensors XX, ultrasonic sensor cylindrical M18, Sn 0.15 m, 2 NO, M12 connector  
XX518A1KAM12