Product data sheet

Specifications

Green Premium™

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

XX518A1KAM12

Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.15 m fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	2 NO
Wiring technique	4-wire
Discrete output type	PNP and NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.025…0.152 m
Beam angle	8 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
Thread type	M18 x 1
Supply voltage limits	10…28 V DC
[Sa] assured operating distance	0.025…0.152 m
Maximum differential travel	0.35 mm
Blind zone	0…19 mm
Transmission frequency	500 kHz
Repeat accuracy	0.7 %

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Deviation angle from 90° of object to be detected	-10…10 °
Minimum size of detected object	Cylinder diameter 1.6 mm
Current consumption	60 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Switching frequency	<= 80 Hz
Maximum delay first up	350 ms
Maximum delay response	3 ms
Maximum delay recovery	3 ms
Marking	CE
Threaded length	51 mm
Height	18 mm
Width	18 mm
Depth	65 mm
Net weight	0.033 kg

Environment

Standards	IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	0…50 °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 level 4 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	1 kV level 3 conforming to IEC 61000-4-4

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.0 cm
Package 1 Width	8.5 cm
Package 1 Length	8.6 cm
Package 1 Weight	53.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.005 kg

Offer Sustainability

|	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months

XX518A1KAM12

**Dimensions**
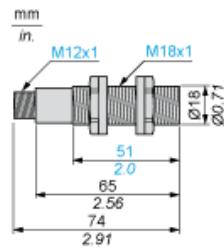
Minimum Mounting Distances

Side by side
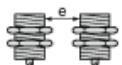
e :   respect the distances indicated on the detection curves

### Face to face
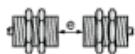
e >   4 x Sn

Wiring Diagram

4-Wire Type

NO outputs, PNP and NPN
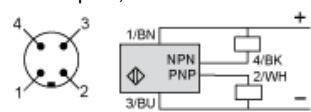
(1)	(+)
(2)	PNP output
(3)	(-)
(4)	NPN output
BN	Brown
WH	White
BU	Blue
BK	Black

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Curves
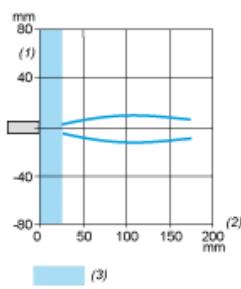
(1)	Parallel movement
(2)	Distance
(3)	Blind zone for diffuse sensors.

Recommended replacement(s)