

XX518A1KAM12

ultrasonic sensor cylindrical M18 - Sn 0.15 m - 2NO - M12 connector



Main

Range of product	OsiSense 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 %
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
Voltage drop	<= 1 V
Switching frequency	<= 80 Hz
Delay first up	<= 350 ms
Delay response	<= 3 ms
Delay recovery	<= 3 ms
Marking	CE
Threaded length	51 mm
Height	18 mm
Width	18 mm
Depth	65 mm
Product weight	0.033 kg

Environment

standards	IEC 60947-5-2
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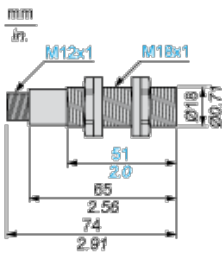
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product certifications	CULus
ambient air temperature for operation	0...50 °C
ambient air temperature for storage	-40...80 °C
vibration resistance	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
shock resistance	30 gn in all 3 axes for 11 ms conforming 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

Offer Sustainability

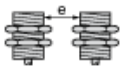
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1140 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold
Product end of life instructions	Available

Dimensions



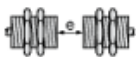
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face

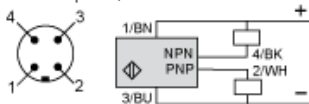


e > 4 x Sn

Wiring Diagram

4-Wire Type

NO outputs, PNP and NPN



- (1) (+)
- (2) PNP output
- (3) (-)
- (4) NPN output

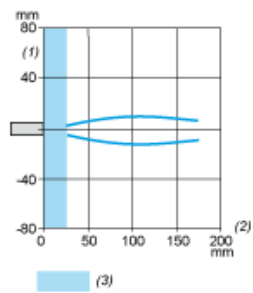
BN Brown

WH White

BU Blue

BK Black

Curves



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