XX7V1A1NAM12

ultrasonic sensor parallelepipedic - Sn 0.5 m - NO - M12 connector

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Sensor design	Flat form 18 x 33 x 60 + cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.5 m adjustable with remote teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.051...0.508 m
Beam angle	12 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	Valox
Front material	Epoxy
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.508 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0...51 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 2.5 mm at 0.15 m Flat bar 1 mm wide at 0.15 m
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state
Current consumption	40 mA

Maximum switching current	100 mA
Voltage drop	< 1 V
Switching frequency	<= 40 Hz
Delay first up	100 ms
Delay response	10 ms
Delay recovery	10 ms
Marking	CE
Height	44 mm
Width	18 mm
Depth	60 mm

Environment

| Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	-20...65 °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

| RoHS (date code: YYWW)	Compliant - since 1140 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - Go to CaP for more details
	Go to CaP for more details
Product end of life instructions	Available
	End of Life Information

Contractual warranty

Warranty period	18 months

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Dimensions

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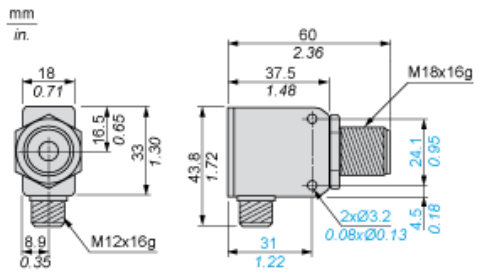
Minimum Mounting Distances

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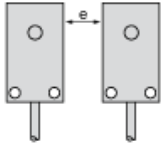
e :   respect the distances indicated on the detection curves

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Wiring Diagram

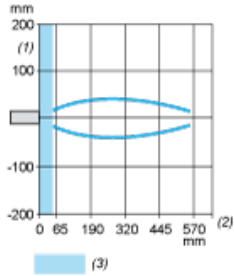### 3-Wire Type

NO outputs, NPN
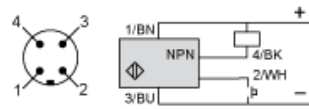
(1)	(+)
(2)	Teach input (WH)
(3)	(-)
(4)	Output
BN	Brown
WH	White
BU	Blue
BK	Black

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Curves

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