

# Product data sheet

## Characteristics

# XX518A3NAM12

ultrasonic sensor cylindrical M18 - Sn 0.5 m -  
NO - M12 connector



### Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Material	Plastic
Sensor design	Cylindrical M18
Type of output signal	Discrete
Wiring techniques	3 wires
Us rated supply voltage	12...24 V DC with reverse polarity protection
Discrete output function	1 NO
Discrete output type	NPN
Electrical connection	4 pins M12 male connector
Sd sensing range	0.051...0.508 m
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

### Complementary

Enclosure material	Valox
Front material	Epoxy
ISO thread	M18 x 1
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 %
Deviation angle from 90°	-7...7 °
Min size of detected object	Cylinder diameter 2.5 mm up to 150 mm sensing distance
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state
Current consumption	40 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1 V
Switching frequency	<= 40 Hz
Delay first up	100 ms
Delay response	10 ms
Delay recovery	10 ms
Marking	CE
Threaded length	43 mm
CAD overall height	18 mm
CAD overall width	18 mm
CAD overall depth	79 mm
Product weight	0.033 kg

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## Environment

Standards	IEC 60947-5-2
Ambient air temp for op	-20...65 °C
Ambient air temp 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
Resist electrostatic dischrg	8 kV level 4 conforming to IEC 61000-4-2
Resist to electromagn 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

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