

# XX512A2PAM8

ultrasonic sensor cylindrical M12 - Sn 0.1 m -  
NO - M8 connector



Product availability: Stock - Normally stocked in distribution facility



## Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M12
Detection system	Diffuse
[Sn] nominal sensing distance	0.33 ft (0.1 m) fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M8 3 pins
[Sd] sensing range	0.02...0.33 ft (0.0064...0.102 m)
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Enclosure material	ULTEM
Front material	Epoxy
ISO thread	M12 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.02...0.33 ft (0.0064...0.102 m)
Maximum differential travel	0.03 in (0.7 mm)
Blind zone	0...0.25 in (0...6.4 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	Flat bar 1 mm wide Cylinder diameter 2.5 mm
Status LED	1 LED (yellow) for output state 1 LED (green) for supply on
Current consumption	25 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1 V
Switching frequency	<= 125 Hz
Delay first up	20 ms
Delay response	3 ms
Delay recovery	3 ms
Marking	CE
Threaded length	1.5 in (38 mm)

Height	0.47 in (12 mm)
Width	0.47 in (12 mm)
Depth	1.97 in (50 mm)
Product weight	0.02 lb(US) (0.011 kg)

## Environment

Standards	IEC 60947-5-2
Ambient air temperature for operation	-4...149 °F (-20...65 °C)
Ambient air temperature for storage	-40...176 °F (-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	9.14 V/yd (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

## Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	00785901420736
Nbr. of units in pkg.	1
Package weight(Lbs)	0.05
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	US

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 1140 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference contains SVHC above the threshold - <a href="#">go to CaP for more details</a>
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Available <a href="#">Download End Of Life Manual</a>

## Contractual warranty

Period	18 months
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