# *Product datasheet*
## *Characteristics*

# XX930A1A1230M12

## Main

| | |
|---|---|
| Range of product | OsiSense XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX9 |
| Sensor design | Cylindrical M30 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 3.28 ft (1 m) adjustable with teach push-button |
| Material | Plastic |
| Type of output signal | Analogue |
| Wiring technique | 4-wire |
| Analogue output function | 0...10 V |
| [Us] rated supply voltage | 15...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 4 pins |
| [Sd] sensing range | 0.17...3.25 ft (0.051...0.991 m) |
| Beam angle | 10 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| Enclosure material | ULTEM |
| Front material | Silicone |
| Thread type | M30 x 1.5 |
| Supply voltage limits | 14...28 V DC |
| Function available | Without synchronisation mode |
| [Sa] assured operating distance | 0.17...3.25 ft (0.051...0.991 m) (teach mode) |
| Blind zone | 0...2.01 in (0...51 mm) |
| Transmission frequency | 200 kHz |
| Repeat accuracy | 0.9 % |
| Deviation angle from 90° of object to be detected | -8...8 ° |
| Minimum size of detected object | Cylinder diameter 1.6 mm at 0.635 m |
| Status LED | 1 LED (dual colour) setting-up assistance/supply on/output state<br>1 LED (green)<br>1 LED (yellow) |
| Current consumption | 80 mA |
| Maximum switching capacity | >= 1 kOhm overload and short-circuit protection |
| Setting-up | Slope selection using teach button |
| Delay first up | 720 ms |
| Delay response | 250 ms |
| Delay recovery | 25 ms |
| Marking | CE |
| Threaded length | 1.77 in (45 mm) |
| Height | 1.38 in (35 mm) |
| Width | 1.38 in (35 mm) |
| Depth | 3.35 in (85 mm) |
| Product weight | 0.21 lb(US) (0.095 kg) |

## Environment

| | |
|---|---|
| standards | IEC 60947-5-2 |
| product certifications | CCSAus |

| | |
|---|---|
| | UL |
| ambient air temperature for operation | 32...122 °F (0...50 °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 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 |

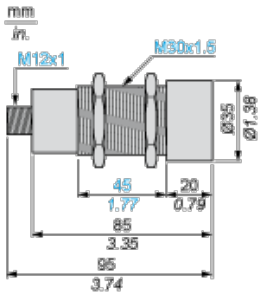
## Offer Sustainability

| | |
|---|---|
| Not Green Premium product | Not Green Premium product |
| Will not be Compliant | Will not be Compliant |
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and | 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. | 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 | For more information go to www.p65warnings.ca.gov |

## Contractual warranty

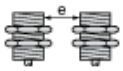
| | |
|---|---|
| Warranty period | 18 months |

## Dimensions



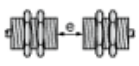

## Minimum Mounting Distances

### Side by side




**e :** respect the distances indicated on the detection curves

### Face to face




**e >** 4 x Sn

## Wiring Diagram

### 4-Wire Type


**(1)** (+)

**(2)** Return signal or teach

**(3)** (-)

**(4)** Output signal

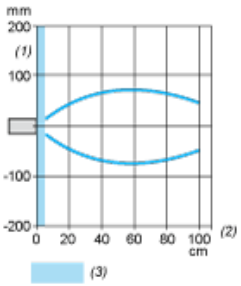

**BN** Brown

**WH** White

**BU** Blue

**BK** Black

## Curves




**(1)** Parallel movement

**(2)** Distance

**(3)** Blind zone for diffuse sensors.