



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XX                                  |
| Sensor type                   | Ultrasonic sensor                            |
| Series name                   | General purpose                              |
| Sensor name                   | XXA  |
| Sensor design                 | Cylindrical M18                              |
| Detection system              | Diffuse (with 90° head)                      |
| [Sn] nominal sensing distance | 1 m adjustable with remote teach push-button |
| Material                      | Plastic                                      |
| Type of output signal         | Analogue                                     |
| Wiring technique              | 4-wire                                       |
| Analogue output function      | 0...10 V                                     |
| [Us] rated supply voltage     | 24 V DC with reverse polarity protection     |
| Electrical connection         | Male connector M12 5 pins                    |
| [Sd] sensing range            | 0.105...1 m                                  |
| IP degree of protection       | IP67<br>IP65 conforming to IEC 60529         |

## Complementary

|   |  |
|---|--|
| Enclosure material                                | PBT  |
| Front material                                    | Epoxy<br>Rubber<br>Resin                           |
| Supply voltage limits                             | 14...30 V DC                                       |
| Function available                                | With synchronisation mode<br>Software configurable |
| [Sa] assured operating distance                   | 0.105...1 m (teach mode)                           |
| Blind zone  | 105 mm   |
| Transmission frequency                            | 200 kHz  |
| Repeat accuracy                                   | 0.1 %  |
| Deviation angle from 90° of object to be detected | -7...7 °   |
| Minimum size of detected object                   | Cylinder diameter 1 mm at 600 mm                   |
| Status LED  | 1 LED (green) for echo state                       |

|                            |   |
|----------------------------|---|
|                            | 1 LED (yellow) for output state                 |
| Current consumption        | 30 mA   |
| Maximum switching capacity | >= 1 kOhm overload and short-circuit protection |
| Voltage drop               | <= 2 V  |
| Setting-up                 | Teach mode                                      |
| Delay first up             | <= 180 ms                                       |
| Delay recovery             | <= 100 ms                                       |
| Marking                    | CE  |
| Threaded length            | 45 mm   |
| Height                     | 18 mm   |
| Width                      | 18 mm   |
| Depth                      | 79 mm   |
| Product weight             | 0.04 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947-5-2<br>UL 508<br>CSA C22.2 No 14              |
| Product certifications                | CULus<br>Ecolab<br>RCM<br>EAC<br>E2                        |
| Ambient air temperature for operation | -25...70 °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 1810 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference contains SVHC above the threshold - Go to CaP for more details<br><a href="#">Go to CaP for more details</a>                |
| Product end of life instructions | Available   |