



## Main

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Range of product                   | OsiSense XT                                    |
| Sensor type                        | Capacitive proximity sensor                    |
| Product specific application       | Detection of insulated or conductive materials |
| Sensor name                        | XT2                                            |
| Sensor design                      | Cylindrical M30                                |
| Size                               | 74.5 mm                                        |
| Body type                          | Fixed                                          |
| Detector flush mounting acceptance | Non flush mountable                            |
| Material                           | Plastic                                        |
| Enclosure material                 | Plastic                                        |
| Type of output signal              | Discrete                                       |
| Wiring technique                   | 3-wire                                         |
| [Sn] nominal sensing distance      | 0.59 in (15 mm)                                |
| Discrete output function           | 1 NO                                           |
| Output circuit type                | DC                                             |
| Discrete output type               | NPN                                            |
| Electrical connection              | Cable                                          |
| Cable length                       | 6.56 ft (2 m)                                  |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection  |
| Delay response                     | < 10 ms                                        |
| IP degree of protection            | IP67 double insulation conforming to IEC 60529 |

## Complementary

|                                 |                                        |
|---------------------------------|----------------------------------------|
| ISO thread                      | M30 x 1.5                              |
| Detection face                  | Frontal                                |
| [Sa] assured operating distance | 0...0.43 in (0...11 mm)                |
| Adjustment zone                 | 0...0.67 in (0...17 mm)                |
| Differential travel             | < 1...20 % Sr                          |
| Repeat accuracy                 | < 5 % Sr                               |
| Wire insulation material        | PVC                                    |
| Status LED                      | 1 LED (yellow) output state indication |
| Supply voltage limits           | 10...30 V DC                           |
| Residual current                | <= 100 mA (open state)                 |
| Protection type                 | Short-circuit protection               |
| Switching frequency             | <= 150 Hz                              |
| Voltage drop                    | < 2.5 V (closed)                       |
| Current consumption             | < 15 mA                                |
| Delay first up                  | < 100 ms                               |
| Delay recovery                  | < 10 ms                                |
| Maximum switching current       | 200 mA                                 |
| Marking                         | CE                                     |
| Setting-up                      | Sensitivity by potentiometer           |
| Threaded length                 | 1.91 in (48.5 mm)                      |
| Length                          | 2.93 in (74.5 mm)                      |
| Product weight                  | 0.6 lb(US) (0.27 kg)                   |

## Environment

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| standards                             | EN/IEC 60947-5-2                                                                     |
| product certifications                | CULus                                                                                |
| ambient air temperature for operation | 14...140 °F (-10...60 °C)                                                            |
| vibration resistance                  | 10 gn amplitude = 1 mm (10...55 Hz) conforming to IEC 60068-2-6                      |
| shock resistance                      | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27                                |
| resistance to electrostatic discharge | 4 kV (contact) conforming to IEC 61000-4-2<br>8 kV (air) conforming to IEC 61000-4-2 |
| resistance to electromagnetic fields  | 2.74 V/yd (3 V/m) conforming to IEC 61000-4-3                                        |
| resistance to fast transients         | 2 kV conforming to IEC 61000-4-4                                                     |

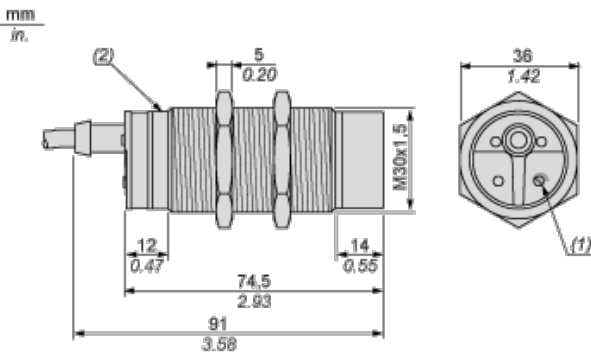
### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Compliant - since 0918 - Schneider Electric declaration of conformity                                                      | Compliant - since 0918 - Schneider Electric declaration of conformity                                                      |
| 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

### Contractual warranty

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

### Dimensions

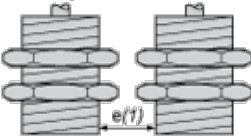


- (1) Adjustment potentiometer
- (2) LED

### Setting-up

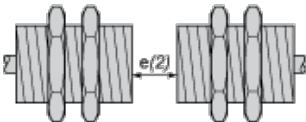
#### Minimum Mounting Distances (mm)

##### Side by side



$e(1)$  60  
≥

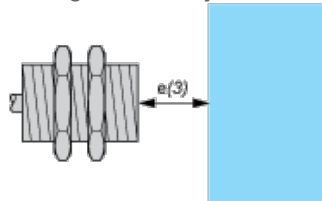
##### Face to face



$e(2)$  90

≥

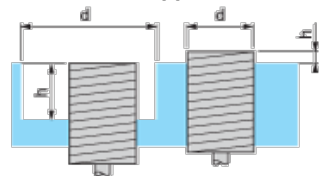
## Facing a metal object



e(3) 45

≥

## Mounted in support



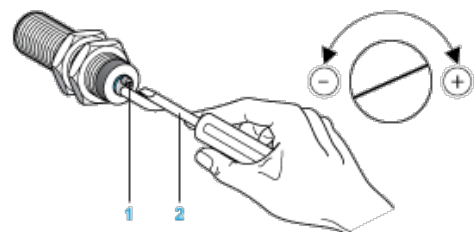
$d \geq 90$

$h \geq 30$

Fixing nut tightening torque: 8 N.m

## Adjustment

### Sensitivity Adjustment



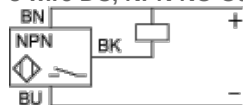
(1) Adjustment potentiometer

(2) Screwdriver (included with sensor)

## Wiring Diagram

### Pre-cabled

3-wire DC, NPN NO Output



(BU) Blue

(BN) Brown

(BK) Black