



### Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | OsiSense XS                                    |
| Series name                        | Application                                    |
| Sensor type                        | Inductive proximity sensor                     |
| Device application                 | -  |
| Sensor name                        | XS9  |
| Sensor design                      | Flat form 40 x 40 x 15                         |
| Size                               | 15 mm  |
| Body type                          | Fixed  |
| Detector flush mounting acceptance | Flush mountable                                |
| Material                           | Plastic  |
| Enclosure material                 | PBT  |
| Type of output signal              | Analogue                                       |
| Wiring technique                   | 3-wire   |
| [Sn] nominal sensing distance      | 0.59 in (15 mm)                                |
| Discrete output function           | 1 NO   |
| Output circuit type                | DC   |
| Analogue output range              | 0...10 V                                       |
| Electrical connection              | Cable  |
| Cable length                       | 16.4 ft (5 m)                                  |
| [Us] rated supply voltage          | 24 V DC  |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529 |

### Complementary

|                          |                            |
|--------------------------|----------------------------|
| Detection face           | Frontal                    |
| Front material           | PBT                        |
| Operating zone           | 0.08...0.59 in (2...15 mm) |
| Repeat accuracy          | <= 3% of Sr                |
| Linearity error          | +/- 1 V                    |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>   |
| Wire insulation material | PvR                        |
| Status LED               | Without                    |
| Supply voltage limits    | 15...36 V DC               |
| Switching frequency      | <= 1000 Hz                 |
| Current consumption      | 0...4 mA at no-load        |
| Output current drift     | <= 10 %                    |
| Marking                  | CE                         |
| Depth                    | 0.59 in (15 mm)            |
| Height                   | 1.57 in (40 mm)            |
| Width                    | 1.57 in (40 mm)            |

### Environment

|                                       |   |
|---------------------------------------|---|
| product certifications                | CSA<br>UL   |
| ambient air temperature for operation | -13...158 °F (-25...70 °C)  |
| ambient air temperature for storage   | -40...185 °F (-40...85 °C)  |
| vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance                      | 50 gn 11 ms conforming to IEC 60068-2-27                                |

## Offer Sustainability

Not Green Premium product

Not Green Premium product

Compliant - since 1104 - Schneider Electric declaration of conformity

WARNING: This product can expose you to chemicals including:

Diisobutyl 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.

For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

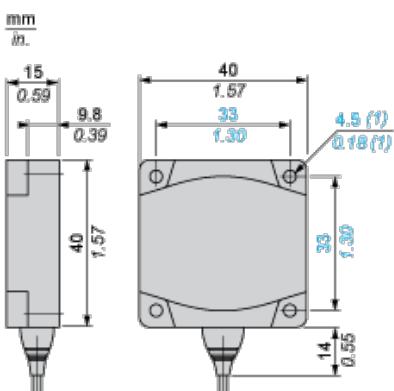
For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Contractual warranty

Warranty period

18 months

## Dimensions

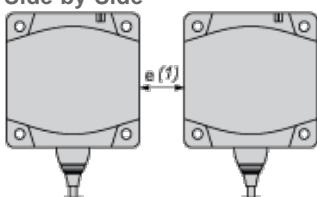


(1) For CHC type screws

## Setting-up

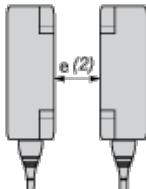
### Minimum Mounting Distances (mm)

Side by Side



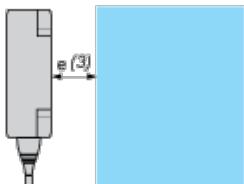
e (1) 45  
≥

Face to Face



e (2) 110  
≥

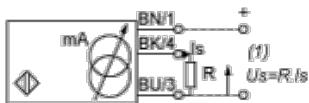
Facing a Metal Object



e (3) 45  
≥

## Wiring Schemes

### 3-Wire Connection



BU : Blue

BN : Brown

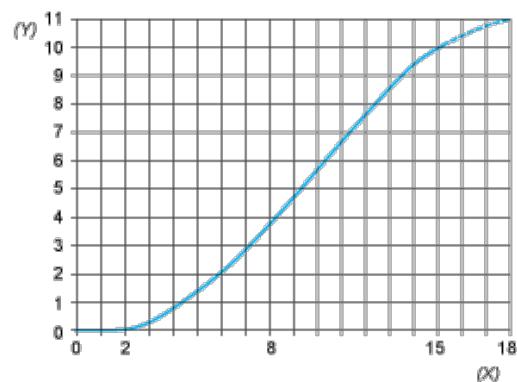
BK : Black

(1) Voltage output

Ensure a minimum of 5 V between the + (terminal 1) and the sensor output (terminal 4)

|      | Output current | Load impedance value | Output voltage | Load impedance value |
|------|----------------|----------------------|----------------|----------------------|
| 24 V | 0...10 mA      | $R \leq 1400 \Omega$ | 0...10 V       | $R = 1000 \Omega$    |

## Output Curves



(Y)  $U_s$  (V)

(X) Sensors - object distance (mm)