

# XS4P18AB110

inductive sensor XS4 M18 - L41mm - PBT -  
Sn8mm - 24..48VDC - cable 2m



## Main

|                                    |                              |
|------------------------------------|------------------------------|
| Range of product                   | OsiSense XS                  |
| Series name                        | Application                  |
| Sensor type                        | Inductive proximity sensor   |
| Device application                 | -                            |
| Sensor name                        | XS4                          |
| Sensor design                      | Cylindrical M18              |
| Size                               | 41 mm                        |
| Body type                          | Fixed                        |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Plastic                      |
| Type of output signal              | Analogue                     |
| Wiring technique                   | 3-wire                       |
| [Sn] nominal sensing distance      | 8 mm                         |
| Discrete output function           | 1 NC                         |
| Output circuit type                | DC                           |
| Analogue output range              | 0...10 V                     |
| Electrical connection              | Cable                        |
| Cable length                       | 2 m                          |
| [Us] rated supply voltage          | 24...48 V DC                 |
| IP degree of protection            | IP67 conforming to IEC 60529 |

## Complementary

|                          |                          |
|--------------------------|--------------------------|
| Thread type              | M18 x 1                  |
| Detection face           | Frontal                  |
| Front material           | PPS                      |
| Enclosure material       | PBT                      |
| Operating zone           | 0.8...8 mm               |
| Repeat accuracy          | <= 3% of Sr              |
| Linearity error          | +/- 2 mA                 |
| Cable composition        | 3 x 0.34 mm <sup>2</sup> |
| Wire insulation material | PvR                      |
| Supply voltage limits    | 15...58 V DC             |
| Switching frequency      | <= 500 Hz                |
| Current consumption      | 4 mA (no-load)           |
| Output current drift     | <= 10 %                  |
| Marking                  | CE                       |
| Threaded length          | 26 mm                    |
| Height                   | 18 mm                    |
| Length                   | 41 mm                    |
| Product weight           | 0.08 kg                  |

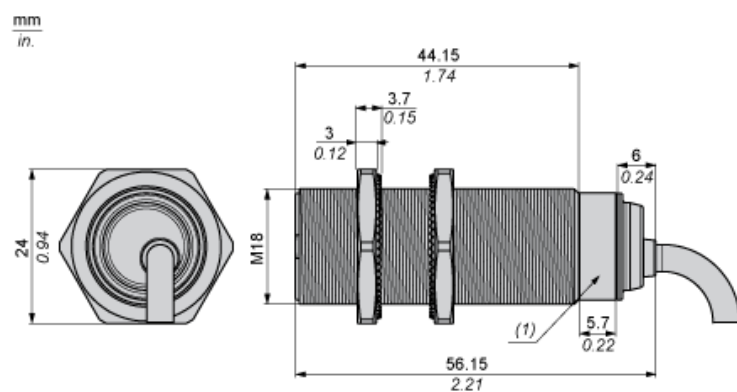
## Environment

|                                       |                  |
|---------------------------------------|------------------|
| Product certifications                | CCC<br>CSA<br>UL |
| Ambient air temperature for operation | -25...70 °C      |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0812 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Available <a href="#">Download End Of Life Manual</a>                                 |

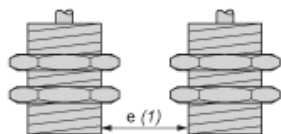
## Dimensions



(1) LED

## Minimum Mounting Distances

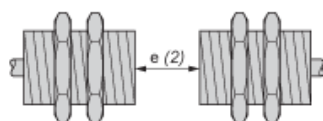
Side by side



e (1) 32 mm/1.26 in.

≥

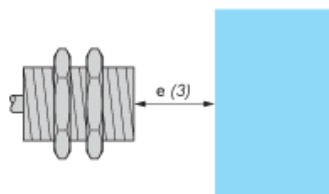
Face to face



e (2) 96 mm/3.78 in.

≥

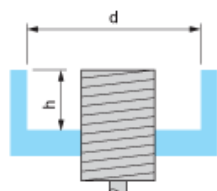
Facing a metal object



e (3) 24 mm/0.94 in.

≥

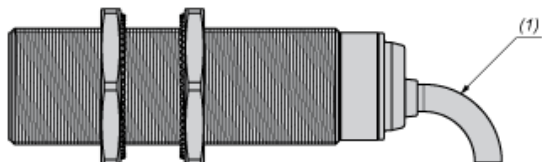
Mounted in a metal support



d ≥ 56 mm/2.20 in.

h ≥ 16 mm/0.63 in.

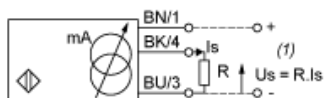
## Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

### 3-Wire connection



(1) Voltage output

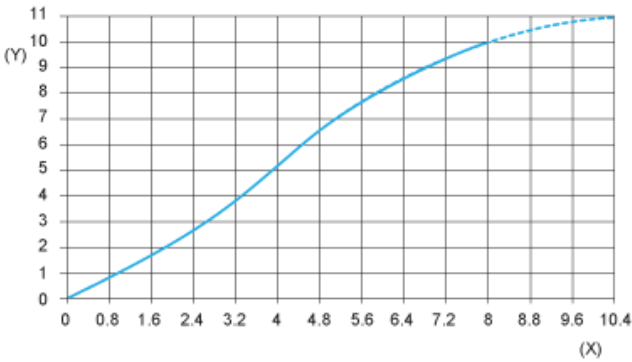
BN : Brown

BK : Black

BU : Blue

|      | Output current | Load impedance value | Output voltage | Load impedance value |
|------|----------------|----------------------|----------------|----------------------|
| 24 V | 0...10 mA      | $R \leq 1500 \Omega$ | 0...10 V       | $R = 1000 \Omega$    |
| 48 V | 0...10 mA      | $R \leq 3300 \Omega$ | 0...10 V       | $R = 1000 \Omega$    |

Output Curves



(Y) Is (V)  
(X) Sensors - object distance (mm)