

# Product data sheet

## Characteristics

# XS4P18AB110L1

Inductive proximity sensors XS, inductive sensor XS4 M18, L41mm, PBT, Sn8mm, 24...48 VDC, cable 5 m



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 262.00 USD



### Main

|                                    |  |
|------------------------------------|--|
| Range of Product                   | Telemecanique Inductive proximity sensors XS |
| Series name                        | Application                                  |
| Sensor Type                        | Inductive proximity sensor                   |
| Electrical circuit type            | Analog output                                |
| 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      | 0.31 In (8 mm)                               |
| Output circuit type                | DC   |
| Analogue output range              | 0...10 V                                     |
| Electrical connection              | Cable  |
| Cable length                       | 16.40 Ft (5 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     | 0.03...0.31 In (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             |
| Maximum output current drift | 10 %                     |
| Marking                      | CE                       |
| Threaded length              | 1.02 In (26 mm)          |
| Length                       | 1.61 In (41 mm)          |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| Product Certifications                | CSA<br>CCC<br>UL           |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C) |



## Ordering and shipping details

|                       |                            |
|-----------------------|----------------------------|
| Category              | 22486 - SENSORS, PROXIMITY |
| Discount Schedule     | DS2                        |
| GTIN                  | 03389110546378             |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 5.57 Oz (158 g)            |
| Returnability         | No                         |
| Country of origin     | FR                         |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.46 In (3.7 cm)       |
| Package 1 width              | 4.88 In (12.4 cm)      |
| Package 1 Length             | 5.24 In (13.3 cm)      |
| Unit Type of Package 2       | BAG                    |
| Number of Units in Package 2 | 1                      |
| Package 2 Weight             | 6.35 Oz (180 g)        |
| Package 2 Height             | 1.77 In (4.5 cm)       |
| Package 2 width              | 9.84 In (25 cm)        |
| Package 2 Length             | 7.87 In (20 cm)        |
| Unit Type of Package 3       | S02                    |
| Number of Units in Package 3 | 14                     |
| Package 3 Weight             | 5.44 Lb(US) (2.468 kg) |
| Package 3 Height             | 5.91 In (15 cm)        |
| Package 3 width              | 11.81 In (30 cm)       |
| Package 3 Length             | 15.75 In (40 cm)       |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| Sustainable offer status  | Green Premium product   |
| California proposition 65 | WARNING: This product can expose you to chemicals including: 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. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation          |  <a href="#">REACH Declaration</a>   |
| EU RoHS Directive         | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>  |
| Mercury free              | Yes   |

|                            |   |
|----------------------------|---|
| RoHS exemption information | <a href="#">Yes</a>                           |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |

### Contractual warranty

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

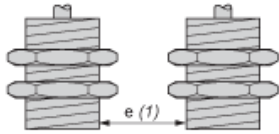
Dimensions



(1) LED

### Minimum Mounting Distances

Side by side



e (1)  $\geq$  2 mm/1.26 in.

Face to face



e (2)  $\geq$  6 mm/3.78 in.

Facing a metal object



e (3)  $\geq$  4 mm/0.94 in.

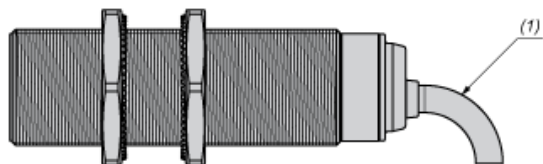
Mounted in a metal support



d  $\geq$  56 mm/2.20 in.

h  $\geq$  16 mm/0.63 in.

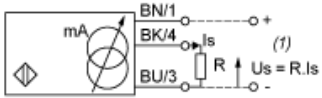
### Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

3-Wire connection



(1) Voltage output

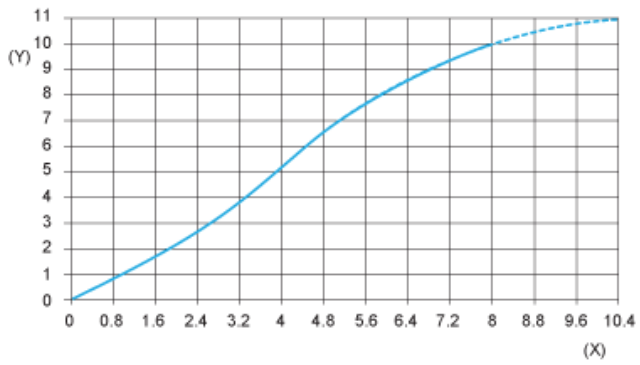
BN : Brown

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)

Product Life Status : **Commercialised**