



## Main

|                                    |                              |
|------------------------------------|------------------------------|
| Range of product                   | OsiSense XS ATEX D           |
| Series name                        | Application                  |
| Sensor type                        | Inductive proximity sensor   |
| Device application                 | ATEX dust                    |
| Sensor name                        | XS1                          |
| Sensor design                      | Cylindrical M18              |
| Size                               | 53 mm                        |
| Body type                          | Fixed                        |
| Detector flush mounting acceptance | Flush mountable              |
| Material                           | Metal                        |
| Enclosure material                 | Nickel plated brass          |
| [Sn] nominal sensing distance      | 0.2 in (5 mm)                |
| Type of output signal              | Analogue                     |
| Wiring technique                   | 2-wire                       |
| Output circuit type                | DC                           |
| Analogue output range              | 4...20 mA                    |
| Electrical connection              | Cable                        |
| Cable length                       | 6.56 ft (2 m)                |
| [Us] rated supply voltage          | 12...24 V DC                 |
| IP degree of protection            | IP67 conforming to IEC 60529 |

## Complementary

|                          |                                |
|--------------------------|--------------------------------|
| Thread type              | M18 x 1                        |
| Detection face           | Frontal                        |
| Front material           | PPS                            |
| Operating zone           | 0.02...0.2 in (0.5...5 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    | 10...38 V DC                   |
| Switching frequency      | <= 500 Hz                      |
| Current consumption      | 4 mA, no-load                  |
| Output current drift     | <= 10 %                        |
| Marking                  | II2 D-Ex tb IIIC T90°C Db IP67 |
| Threaded length          | 1.73 in (44 mm)                |
| Height                   | 0.71 in (18 mm)                |
| Length                   | 2.09 in (53 mm)                |

## Environment

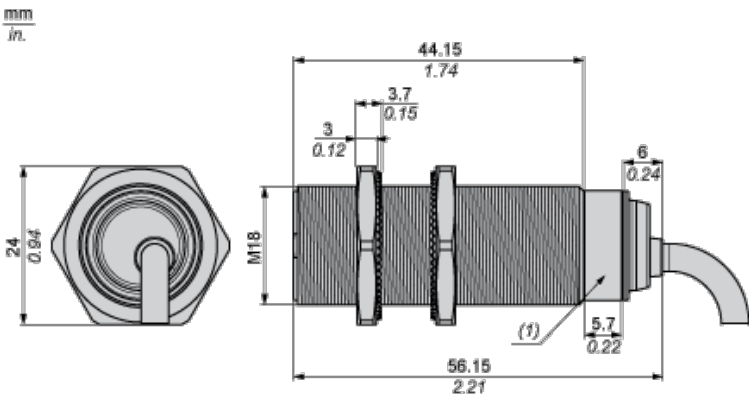
|                                       |                                   |
|---------------------------------------|-----------------------------------|
| standards                             | EN/IEC 60079-0<br>EN/IEC 60079-31 |
| directives                            | 94/9/EC - ATEX directive          |
| product certifications                | INERIS 04ATEX0022X                |
| ambient air temperature for operation | -4...140 °F (-20...60 °C)         |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 0945 - Schneider Electric declaration of conformity                                                      | Compliant - since 0945 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Available                                                                                                                  | Available                                                                                                                  |
| Available                                                                                                                  | Available                                                                                                                  |
| 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>                              |

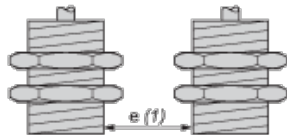
Dimensions



(1) LED

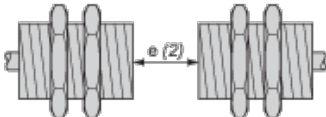
Minimum Mounting Distances

Side by side



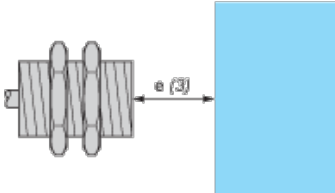
e (1) 10 mm/0.39 in.  
≥

Face to face



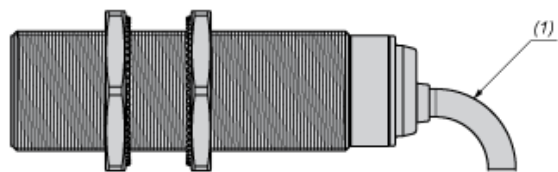
e (2) 60 mm/2.36 in.  
≥

Facing a metal object



e (3) 15 mm/0.60 in

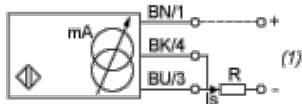
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire connection

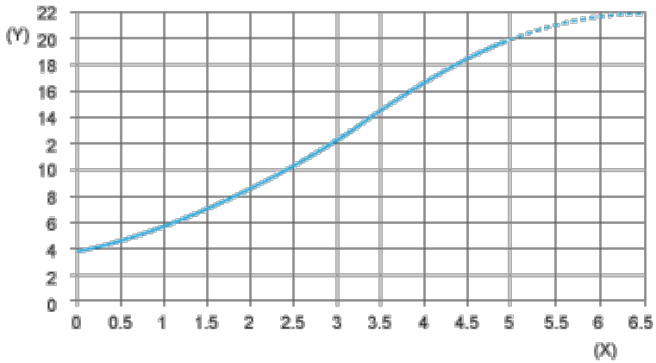


(1) Output current

BN : Brown  
BK : Black  
BU : Blue

|      | Output current | Load impedance value   |
|------|----------------|------------------------|
| 12 V | 4...20 mA      | $R \leq 8.2 \, \Omega$ |
| 24 V | 4...20 mA      | $R \leq 470 \, \Omega$ |

Output Curves



(Y) Is (mA)

(X) Sensors - object distance (mm)



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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