



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 ²
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

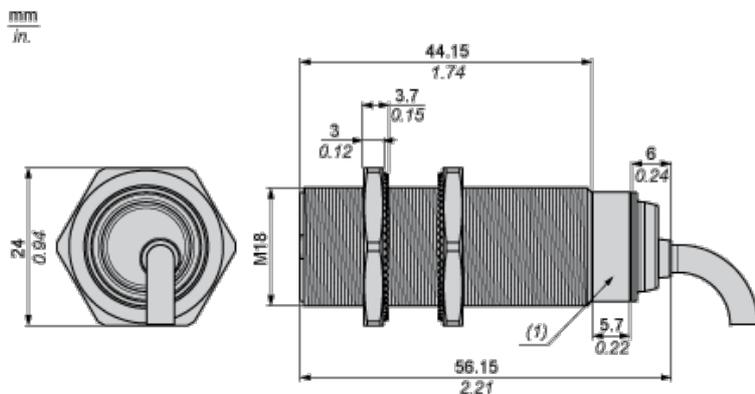
standards	EN/IEC 60079-0 EN/IEC 60079-31
directives	94/9/EC - ATEX directive
product certifications	INERIS 04ATEX0022X
ambient air temperature for operation	-4...140 °F (-20...60 °C)

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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 www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

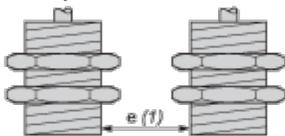
Dimensions



(1) LED

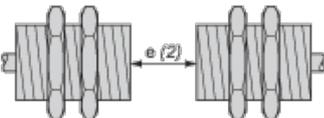
Minimum Mounting Distances

Side by side



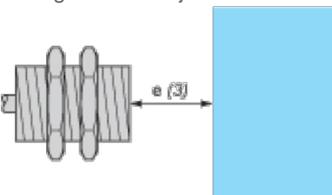
e (1) 10 mm/0.39 in.

Face to face



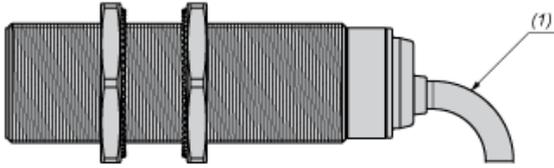
e (2) 60 mm/2.36 in.

Facing a metal object



e (3) 15 mm/0.60 in

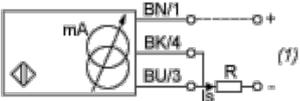
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire connection



(1) Output current

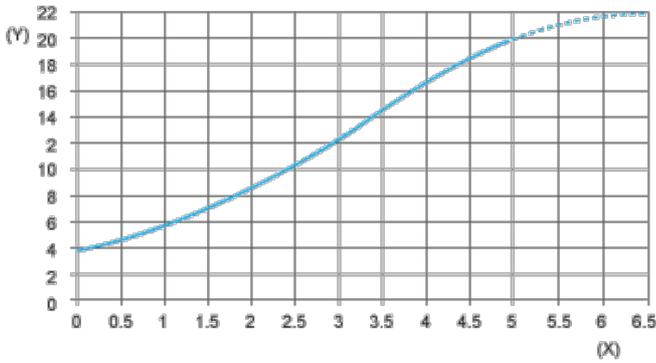
BN : Brown

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) I_s (mA)

(X) Sensors - object distance (mm)