

# XS618B1PBL10EX

Inductive proximity sensors XS for hazardous area dust, M18, Sn8mm, 12...48 VDC, NC, cable 10 m



## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	ATEX dust
Sensor name	XS6
Sensor design	Cylindrical M18
Size	18 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	8 mm
Type of output signal	Discrete
Wiring technique	3-wire
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	10 m
[Us] rated supply voltage	12...48 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP68 conforming to IEC 60529 IP69K

## Complementary

Thread type	M18 x 1
Detection face	Frontal
Front material	PPS
Sensing range	> 4...8 mm
Operating zone	0...6.4 mm
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PVC
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...58 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed state)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	II2 D-Ex tb IIIC T90°C Db IP68
Threaded length	51 mm
Length	61 mm


## Environment

Environmental characteristic	Hazardous location
Standards	IEC 60079-31 IEC 60079-0
Directives	2014/34/EU - ATEX directive
Product certifications	INERIS 04ATEX0022[RETURN]IEC-Ex INE 17.0006
Ambient air temperature for operation	-20...60 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Dust zone	Zone 21 - 22

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 cm
Package 1 Width	8.000 cm
Package 1 Length	16.000 cm
Package 1 Weight	352.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.813 kg

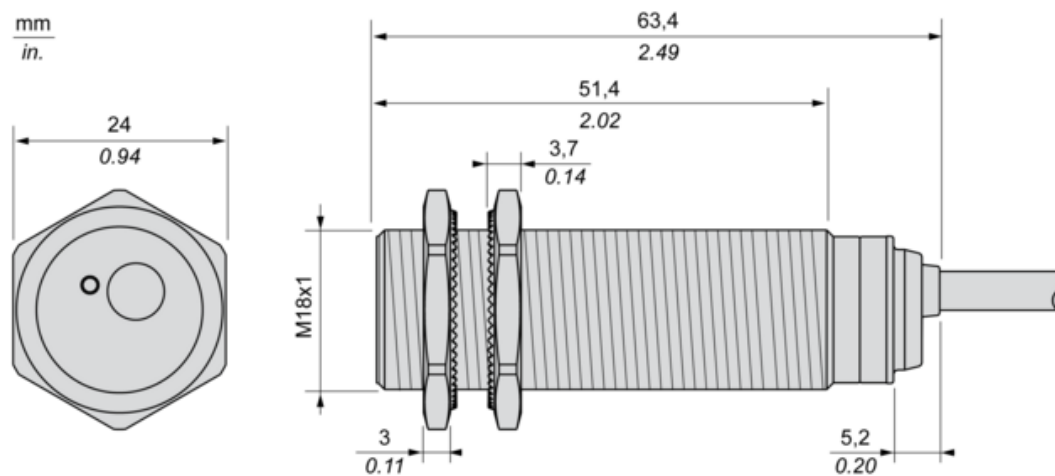
## Offer Sustainability

Sustainable offer status	Green Premium product
Circularity Profile	 <a href="#">End of Life Information</a>
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>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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Dimensions



### Minimum Mounting Distances

Side by side



$e (1) \geq 16 \text{ mm}/0.63 \text{ in.}$

Face to face



$e (2) \geq 100 \text{ mm}/3.94 \text{ in.}$

Facing a metal object



$e (3) \geq 25 \text{ mm}/0.98 \text{ in}$

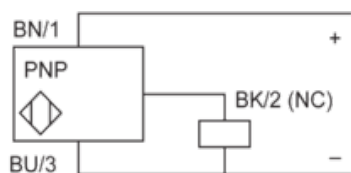
### Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

PNP



BU : Blue

BN : Brown

BK : Black