Product data sheet
Characteristics

XS612B1PBL10EX

inductive sensor hazardous area - M12 - Sn4mm - 12..48VDC - NC - cable 10m

Green Premium™ Product

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

Main

Range of product	OsiSense XS ATEX D
Series name	Application
Sensor type	Inductive proximity sensor
Device application	ATEX dust
Sensor name	XS6
Sensor design	Cylindrical M12
Size	53 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	0.16 in (4 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	32.81 ft (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	M12 x 1
Detection face	Frontal
Front material	PPS
Operating zone	0...0.13 in (0...3.2 mm)
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm²
Wire insulation material	PvR
Status LED	1 LED yellow (output state)
Supply voltage limits	10...58 V DC
Switching frequency	<= 2500 Hz
Voltage drop	<= 2 V, closed state contact(s)
Current consumption	<= 10 mA, no-load
Delay first up	<= 10 ms
Delay response	<= 0.2 ms
Delay recovery	<= 0.2 ms
Marking	II2 D-Ex tb IIIC T90°C Db IP68
Threaded length	1.65 in (42 mm)

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Height	0.47 in (12 mm)
Length	2.09 in (53 mm)

Environment

Standards	EN/IEC 60079-0 EN/IEC 60079-31
Directives	2014/34/EU - ATEX directive
Product certifications	IEC-Ex INE 17.0006 INERIS 04ATEX0022X
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Vibration resistance	25 gn +/- 2 mm 10...55 Hz IEC 60068-2-6
Shock resistance	50 gn 11 ms conforming to IEC 60068-2-27
Dust zone	Zone 21 - 22

Ordering and shipping details

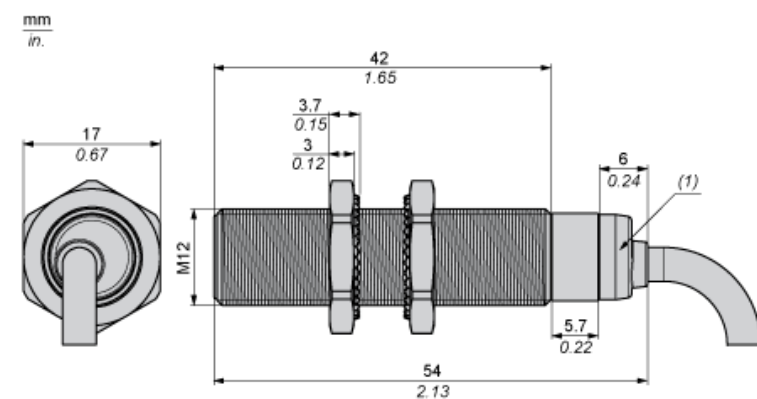|	
Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	003389110955071
Nbr. of units in pkg.	1
Package weight(Lbs)	0.68000000000000005
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0945 - Schneider Electric declaration of conformity [⇱]Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
- - - - - - - Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months 18 months

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Dimensions

(1)   LED

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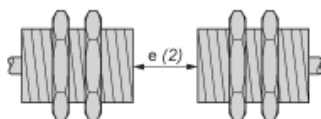## Minimum Mounting Distances

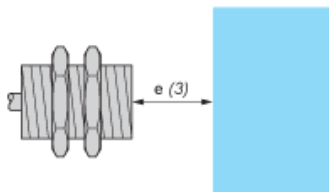Side by side

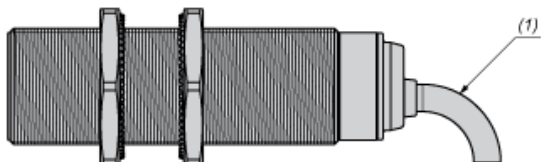e (1) 8 mm/0.31 in.
≥

Face to face

e (2) 48 mm/1.89 in.
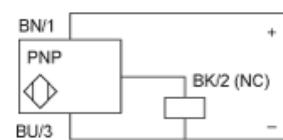≥

Facing a metal object

e (3) 12 mm/0.47 in.
≥

Mounting

(1)   Bending cable: 4 x external cable diameter

Wiring Schemes

PNP

BN/1 — +

PNP

BK/2 (NC)

BU/3 — –

BU : Blue
BN : Brown
BK : Black

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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