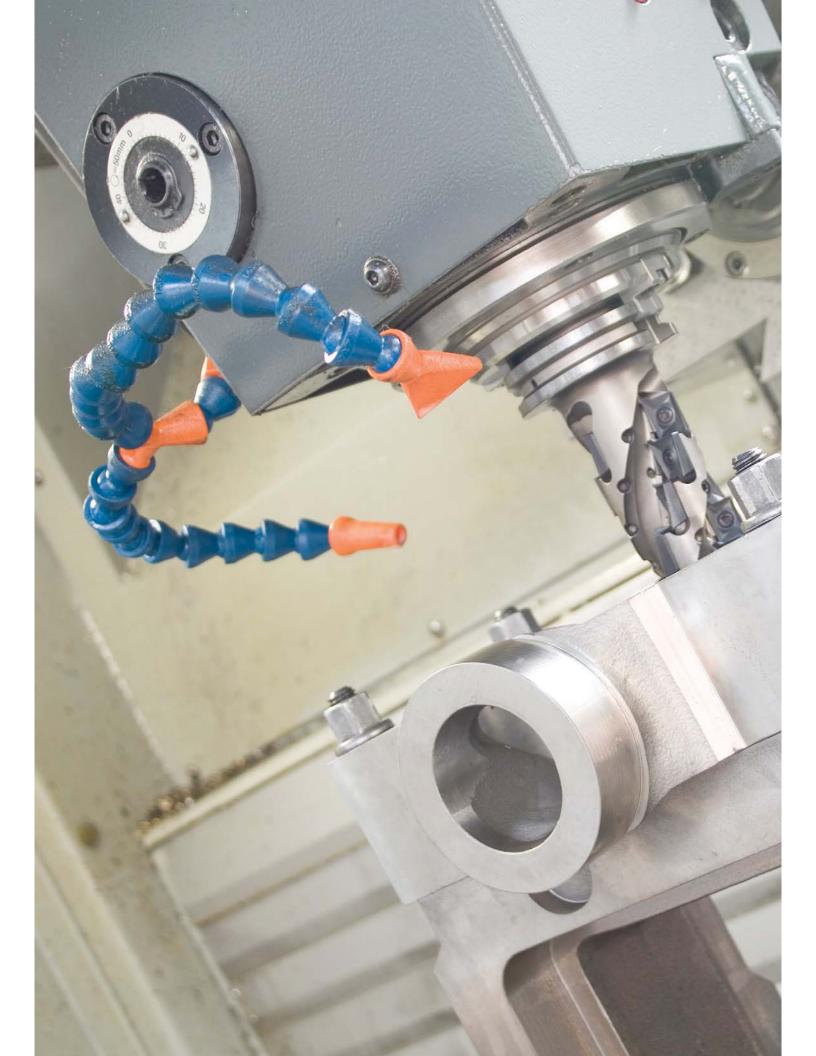
## OsiSense® XS Inductive sensors

General purpose with increased range







# Helping you to find the most efficient solution

# The inductive detection function that performs and lasts

A new offer to meet the demands of machine manufacturers for increased range in inductive sensing.

### >Easy to install

Contributes to machine compactness Wider adjustment range



Solutions that last

### > Readily available

Contributes to machine performance

#### **Contents**

Cylindrical inductive proximity sensors

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Make the most of your energy<sup>SM</sup>

NOTE: Sensors described in this catalog are designed to be used for standard industrial presence sensing applications.

These sensors do not include the self-checking redundant circuitry necessary to allow for their use in safety applications.

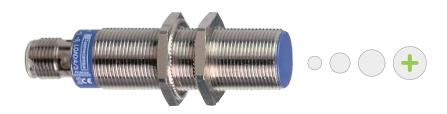
#### Contributes to machine compactness

#### Easy to install:

Compact product (short), easier integration in the machine

- Increased range (x2), sensing distance easier to adjust
- All standard diameters (complete range, from Ø 6.5 to Ø 30 mm)
- Long and short product lengths to meet the most demanding dimension standards on the market
- DC and AC/DC versions available for maximum flexibility

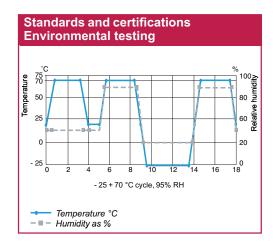
+100% of the sensing distance for flush mountable models



# Increase the reliability of your solution

#### Quality by design:

- Subjected to climatic cycle tests: -25 to +70 °C (-13 to 158 °F) cycle, 95% RH for 3,000 hours under power to verify their ability to maintain specifications over time.
- Resistance to electromagnetic interference-immune to high levels of EMC
- Resistance to environment–IP 65, IP 67 and IP 68 for pre-cabled versions, IP 69K for 12 and 30 mm diameter sensors



#### > Contributes to machine performance

#### Readily available:

- Robust products to meet your needs
- Particularly well-suited for your machines used in sectors such as machine tooling, assembly, packaging, conveying and the automotive industry.









Materials handling Machine Tooling

- Proven tried-and-tested performance with worldwide product availability
- You export your machines throughout the world. Schneider Electric has locations in 190 countries.



### General purpose flush or non-flush mountable, standard or increased range:

A global offer of high-performance inductive sensors to meet your individual needs



XS6..B range Metal AC or DC Increased range 2.5 to 22 mm (0.10 to 0.87 in.) Flush or non-flush mountable



3-wire DC Metal Standard range 1.5 to 10 mm (0.06 to 0.39 in.) Flush mountable



2-wire AC or DC Metal Standard range 2.0 to 10 mm (0.04 to 0.39 in.) Flush mountable



XS1... range
3-wire DC
Metal
Increased range
2.5 to 15 mm
(0.10 to 0.59 in.)
Flush mountable

#### >Selection guide-General purpose inductive sensors

Flush mountable, standard range 1.5 to 10 mm (0.06 to 0.39 in.)

( Metal )

3-wire DC



Flush mountable, standard range 1.5 to 10 mm (0.06 to 0.39 in.)

Metal

2-wire DC











			O		
Format	Ø 6.5 mm	Ø8mm	Ø 12 mm	Ø 18 mm	Ø 30 mm
Sensing dist., mm (in.)	1.5 (0.06)	1.5 (0.06)	2 (0.08)	5 (0.20)	10 (0.39)
Length Short Case	33 (1.30)	33 (1.30)	35 (1.38)	39 (1.54)	43 (1.69)
mm (in.) Long Case	-	51 (2.01)	53 (2.09)	62 (2.44)	62 (2.44)
Connection	2 m cable M12 connector				
Supply, DC	12–24 V, 12–48 V				
Function	NO or NC				
Short case model	XS506BS•••	XS508BS•••	XS512BS•••	XS518BS•••	XS530BS•••
Long case model	-	XS508B1•••	XS512B1•••	XS518B1•••	XS530B1•••

### Flush mountable, increased range 2.5 to 15 mm (0.10 to 0.59 in.)

Metal

#### 3-wire DC



### Flush mountable, increased range 2 to 15 mm (0.08 to 0.59 in.)



2-wire DC











Format	Ø 6.5 mm plain	Ø8 mm	Ø 12 mm	Ø 18 mm	Ø 30 mm
Sensing dist., mm (in.)	2.5 (0.10)	2.5 (0.10)	4 (0.16)	8 (0.31)	15 (0.59)
Length Short case	33 (1.30)	33 (1.30)	35 (1.38)	39 (1.54)	43 (1.69)
mm (in.) Long Case	51 (2.01)	51 (2.01)	53 (2.09)	62 (2.44)	62 (2.44)
Connection	2 m cable M12 connector	2 m cable M8 connector M12 connector	2 m cable M12 connector	2 m cable M12 connector	2 m cable M12 connector
Supply, DC	12–24 V, 12–48 V	12-24 V, 12-48 V	12–24 V, 12–48 V	12–24 V, 12–48 V	12-24 V, 12-48 V
Function	NO or NC	NO or NC	NO or NC	NO or NC	NO or NC
Short case model	XS606B3•••	XS608B3•••	XS612B3•••	XS618B3•••	XS630B3•••
Long case model	XS606B1•••	XS608B1•••	XS612B1•••	XS618B1•••	XS630B1•••

#### >Selection guide-continued



Non-flush mountable, increased range 7 to 22 mm (0.28 to 0.87 in.)

Metal

3-wire DC



### Flush mountable, increased range 4 to 15 mm (0.16 to 0.59 in.)

Metal )

2-wire AC or DC



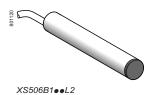
Non-flush mountable, increased range 12 to 22 mm (0.47 to 0.87 in.)

Metal )

2-wire AC or DC



proximity sensors
General purpose
Cylindrical, standard range, flush mountable
Three-wire DC, solid-state output





XS508B1••L2



XS512B1••M12



XS518B1●●M12







Sensing dist.	Function	Output	Connection	Catalog	Weig	
Sn, mm (in.) Ø 6.5, plain				Number	kg	(lb
.5	NO	PNP	Pre-cabled (1)	XS506B1PAL2	0.035	(0.0
(0.06)			M8 connector	XS506B1PAM8	0.025	(0.0)
			M12 connector	XS506B1PAM12	0.025	(0.0)
		NPN	Pre-cabled (1)	XS506B1NAL2	0.035	(0.0)
			M8 connector	XS506B1NAM8	0.025	(0.0)
	NC	PNP	Pre-cabled (1)	XS506B1PBL2	0.035	(0.0)
			M8 connector	XS506B1PBM8	0.025	(0.0)
		NPN	Pre-cabled (1)	XS506B1NBL2	0.035	(0.0
		141 14	M8 connector	XS506B1NBM8	0.005	(0.0
Ø 8, threaded	M8 x 1		Wio commoder	ACCOURTING	0.020	(0.0
.5	NO	PNP	Pre-cabled (1)	XS508B1PAL2	0.035	(0.0
0.06)			M8 connector	XS508B1PAM8	0.025	(0.0)
			M12 connector	XS508B1PAM12	0.025	(0.0)
		NPN	Pre-cabled (1)	XS508B1NAL2	0.035	(0.0)
			M8 connector	XS508B1NAM8	0.025	(0.0
			M12 connector	XS508B1NAM12	0.025	(0.0
	NC	PNP	Pre-cabled (1)	XS508B1PBL2	0.035	(0.0
			M8 connector	XS508B1PBM8	0.025	(0.0
		NEN	M12 connector	XS508B1PBM12	0.025	(0.0
		NPN	Pre-cabled (1) M8 connector	XS508B1NBL2 XS508B1NBM8	0.035	(0.0
			M12 connector	XS508B1NBM8 XS508B1NBM12	0.025	(0.0)
Ø 12, threaded	1 M12 x 1		W12 CONNECTOR	ASSOCIATION 12	0.023	(0.0
<u> </u>	NO	PNP	Pre-cabled (1)	XS512B1PAL2	0.075	(0.1
0.08)			M12 connector	XS512B1PAM12	0.035	(0.0)
		NPN	Pre-cabled (1)	XS512B1NAL2	0.075	(0.1
			M12 connector	XS512B1NAM12	0.035	(0.0
	NC	PNP	Pre-cabled (1)	XS512B1PBL2	0.075	(0.1
			M12 connector	XS512B1PBM12	0.035	(0.0
		NPN	Pre-cabled (1)	XS512B1NBL2	0.075	(0.1
			M12 connector	XS512B1NBM12	0.035	(0.0
Ø 18, threaded						
20)	NO	PNP	Pre-cabled (1)	XS518B1PAL2	0.120	(0.2
0.20)		NIDNI	M12 connector	XS518B1PAM12	0.060	(0.1
		NPN	Pre-cabled (1) M12 connector	XS518B1NAL2	0.120	(0.2
	NC	PNP	Pre-cabled (1)	XS518B1NAM12 XS518B1PBL2	0.060	(0.1
	NC	FINE	M12 connector	XS518B1PBM12	0.060	(0.2
		NPN	Pre-cabled (1)	XS518B1NBL2	0.120	(0.1
			M12 connector	XS518B1NBM12	0.060	(0.1
Ø 30, threaded	M30 x 1.5					
0	NO	PNP	Pre-cabled (1)	XS530B1PAL2	0.205	(0.4
).39)			M12 connector	XS530B1PAM12	0.145	(0.3
		NPN	Pre-cabled (1)	XS530B1NAL2	0.205	(0.4
			M12 connector	XS530B1NAM12	0.145	(0.3
	NC	PNP	Pre-cabled (1)	XS530B1PBL2	0.205	(0.4
			M12 connector	XS530B1PBM12	0.145	(0.3
		NPN	Pre-cabled (1)	XS530B1NBL2	0.205	(0.4
			M12 connector	XS530B1NBM12	0.145	(0.3

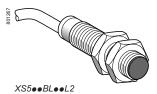
Accessories				
Description	For use with sensors	Catalog Number	Weig kg	ht (lb)
Mounting	Ø 6.5 (plain)	XSZ B165	0.005	(0.01)
clamps	Ø 8	XSZB108	0.006	(0.01)
	Ø 12	XSZB112	0.006	(0.01)
	Ø 18	XSZB118	0.010	(0.02)
	Ø 30	XSZB130	0.020	(0.02)

<sup>(1)</sup> For a 5 m long cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS508B1PAL2 becomes XS508B1PAL5 with a 5 m cable.

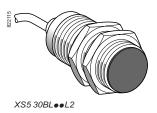
### OsiSense® Inductive **proximity sensors**General purpose

Cylindrical, standard range, flush mountable Three-wire DC, solid-state output









Sensing dist	Sensors.	3-wire 12	2–48 V	, long case n	nodel		
Sn, mm (in.)						Weigh	nt
1.5							
	Ø 6.5, plain						
No.   Piece   Piece   No.   Piece   Pi		NO	PNP	Pre-cabled (1)	XS506BLPAL2	0.035	(0.08)
1.5	(0.06)		NPN	Pre-cabled (1)	XS506BLNAL2	0.035	(80.0)
M12 connector   XS508BLPAM12   0.025   0.06)     NPN	Ø 8, threaded I	VI8 x 1					
NPN   Pre-cabled (1)   X5508BLNAL2   0.035   (0.08)		NO	PNP	Pre-cabled (1)	XS508BLPAL2	0.035	(80.0)
M12 connector   X\$508BLNAM12   0.025   (0.06)	(0.06)						
NC			NPN				<u> </u>
M12 connector   X\$508BLPBM12   0.025   (0.06)							
NPN		NC	PNP				
M12 connector   X\$508BLNBM12   0.025   (0.06)							
Monuting			NPN				<u> </u>
NO				M12 connector	XS508BLNBM12	0.025	(0.06)
M12 connector   XS512BLPAM12   0.035   (0.08)   NPN   Pre-cabled (1)   XS512BLNAL2   0.075   (0.17)   M12 connector   XS512BLNAM12   0.035   (0.08)   NC   PNP   Pre-cabled (1)   XS512BLPBM12   0.035   (0.08)   NPN   Pre-cabled (1)   XS512BLPBM12   0.035   (0.08)   NPN   Pre-cabled (1)   XS512BLNBM12   0.035   (0.08)   NPN   Pre-cabled (1)   XS513BLPAL2   0.120   (0.26)   M12 connector   XS513BLPAM12   0.060   (0.13)   NPN   Pre-cabled (1)   XS513BLNAM12   0.060   (0.13)   NPN   Pre-cabled (1)   XS513BLNAM12   0.060   (0.13)   NPN   Pre-cabled (1)   XS513BLNBM12   0.060   (0.13)   NPN   Pre-cabled (1)   XS530BLPAL2   0.205   (0.45)   M12 connector   XS530BLPAM12   0.145   (0.32)   NPN   Pre-cabled (1)   XS530BLNBM12	Ø 12, threaded	M12 x 1					
NPN		NO	PNP				
M12 connector   XS512BLNAM12   0.035   (0.08)	(0.08)					0.035	(80.0)
NC			NPN			0.075	
M12 connector   XS512BLPBM12   0.035   (0.08)							
NPN		NC	PNP				
M12 connector   XS512BLNBM12   0.035   (0.08)							
Mounting			NPN				
NO   PNP   Pre-cabled (1)   XS518BLPAL2   0.120   (0.26)     M12 connector   XS518BLPAM12   0.060   (0.13)     NPN   Pre-cabled (1)   XS518BLNAM12   0.060   (0.13)     NC   PNP   Pre-cabled (1)   XS518BLNAM12   0.060   (0.13)     NRN   Pre-cabled (1)   XS518BLNAM12   0.060   (0.13)     NRN   Pre-cabled (1)   XS518BLPBL2   0.120   (0.26)     M12 connector   XS518BLPBM12   0.060   (0.13)     NPN   Pre-cabled (1)   XS518BLNBL2   0.120   (0.26)     M12 connector   XS518BLNBM12   0.060   (0.13)     M12 connector   XS518BLNBM12   0.060   (0.13)     M12 connector   XS530BLPAL2   0.205   (0.45)     M12 connector   XS530BLPAM12   0.145   (0.32)     NRN   Pre-cabled (1)   XS530BLNAM12   0.145   (0.32)     NRO   PNP   Pre-cabled (1)   XS530BLNAM12   0.145   (0.32)     NRO   PNP   Pre-cabled (1)   XS530BLNBM12   0.145   (0.32)     NRN   Pre-cabled				M12 connector	XS512BLNBM12	0.035	(0.08)
(0.20) M12 connector X5518BLPAM12 0.060 (0.13) NPN Pre-cabled (1) X5518BLNAL2 0.120 (0.26) M12 connector X5518BLNAM12 0.060 (0.13) NC PNP Pre-cabled (1) X5518BLNAM12 0.060 (0.13) NPN Pre-cabled (1) X5518BLPBL2 0.120 (0.26) M12 connector X5518BLPBL2 0.120 (0.26) M12 connector X5518BLNBL2 0.120 (0.26) M12 connector X5518BLNBL2 0.120 (0.26) M12 connector X5518BLNBM12 0.060 (0.13)  Ø 30, threaded M30 x 1.5  10 NO PNP Pre-cabled (1) X5530BLPAL2 0.205 (0.45) M12 connector X5530BLPAM12 0.145 (0.32) NPN Pre-cabled (1) X5530BLNAL2 0.205 (0.45) M12 connector X5530BLNAM12 0.145 (0.32) NPN Pre-cabled (1) X5530BLNAM12 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL1 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL1 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL1 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL2 0.205 (0.45) M12 connector X5530BLNBL1 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL2 0.205 (0.45) M12 connector X5530BLNBM12 0.145 (0.32) NPN Pre-cabled (1) X5530BLNBL2 0.205 (0.45) NPN Pre-cabled (1) X5	Ø 18, threaded	M18 x 1					
NPN   Pre-cabled (1)   X5518BLNAL2   0.120 (0.26)		NO	PNP	Pre-cabled (1)	XS518BLPAL2	0.120	(0.26)
M12 connector   XS518BLNAM12   0.060   (0.13)	(0.20)			M12 connector	XS518BLPAM12	0.060	(0.13)
NC			NPN		XS518BLNAL2	0.120	(0.26)
M12 connector   XS518BLPBM12   0.060   (0.13)					XS518BLNAM12	0.060	(0.13)
NPN		NC	PNP				
M12 connector   XS518BLNBM12   0.060   (0.13)     Ø 30, threaded M30 x 1.5     10							
Mounting			NPN				
NO   PNP   Pre-cabled (1)   XS530BLPAL2   0.205   (0.45)     M12 connector   XS530BLPAM12   0.145   (0.32)     NPN   Pre-cabled (1)   XS530BLNAL2   0.205   (0.45)     M12 connector   XS530BLNAM12   0.145   (0.32)     NC   PNP   Pre-cabled (1)   XS530BLNAM12   0.145   (0.32)     M12 connector   XS530BLPBL2   0.205   (0.45)     M12 connector   XS530BLPBL2   0.205   (0.45)     M12 connector   XS530BLNBL2   0.145   (0.32)     Accessories				M12 connector	XS518BLNBM12	0.060	(0.13)
(0.39) M12 connector XS530BLPAM12 0.145 (0.32)  NPN Pre-cabled (1) XS530BLNAL2 0.205 (0.45)  M12 connector XS530BLNAM12 0.145 (0.32)  NC PNP Pre-cabled (1) XS530BLNAM12 0.145 (0.32)  M12 connector XS530BLPBL2 0.205 (0.45)  M12 connector XS530BLPBM12 0.145 (0.32)  NPN Pre-cabled (1) XS530BLNBL2 0.205 (0.45)  M12 connector XS530BLNBL2 0.205 (0.45)  M12 connector XS530BLNBM12 0.145 (0.32)  Accessories  Description For use with Sensors Number kg (lb)  Mounting clamps Ø 6.5 (plain) XS2 B165 0.005 (0.01)  Ø 8 XSZB108 0.006 (0.01)  Ø 12 XSZB112 0.006 (0.01)	7						
NPN   Pre-cabled (1)   X5530BLNAL2   0.205   (0.45)     M12 connector   X5530BLNAM12   0.145   (0.32)     NC   PNP   Pre-cabled (1)   X5530BLPBL2   0.205   (0.45)     M12 connector   X5530BLPBL2   0.205   (0.45)     M12 connector   X5530BLPBM12   0.145   (0.32)     NPN   Pre-cabled (1)   X5530BLNBL2   0.205   (0.45)     M12 connector   X5530BLNBM12   0.145   (0.32)     Accessories   Description   For use with		NO	PNP				
M12 connector   XS530BLNAM12   0.145   (0.32)	(0.39)						
NC			NPN				<u> </u>
M12 connector   X5530BLPBM12   0.145   (0.32)   NPN   Pre-cabled (1)   X5530BLNBL2   0.205   (0.45)   M12 connector   X5530BLNBM12   0.145   (0.32)   M12   M12 connector   X5530BLNBM12   0.145   (0.32)   M12 connector   M12 connector   X5530BLNBM12   0.145   (0.32)   M12 connector   X5530BLNBM12							
NPN		NC	PNP				
M12 connector   XS530BLNBM12   0.145   (0.32)							
Accessories           Description         For use with sensors         Catalog Number         Weight kg         (lb)           Mounting clamps         Ø 6.5 (plain)         XSZ B165         0.005         (0.01)           clamps         Ø 8         XSZB108         0.006         (0.01)           Ø 12         XSZB112         0.006         (0.01)			NPN				
Description         For use with sensors         Catalog Number         Weight kg         (lb)           Mounting clamps         Ø 6.5 (plain)         XSZ B165         0.005         (0.01)           Ø 8         XSZB108         0.006         (0.01)           Ø 12         XSZB112         0.006         (0.01)				WIL CONTIECTO	AOOOUDENDW 12	0.140	(0.02)
sensors         Number         kg         (lb)           Mounting clamps         Ø 6.5 (plain)         XSZ B165         0.005         (0.01)           Ø 8         XSZB108         0.006         (0.01)           Ø 12         XSZB112         0.006         (0.01)							
Mounting clamps         Ø 6.5 (plain)         XSZ B165         0.005 (0.01)           Ø 8         XSZB108         0.006 (0.01)           Ø 12         XSZB112         0.006 (0.01)	Description			vith			
Ø 8         XSZB108         0.006         (0.01)           Ø 12         XSZB112         0.006         (0.01)	Mounting			in)			
Ø 12 XSZB112 0.006 (0.01)				,			
	•						
			Ø 18		XSZB118	0.010	(0.01)

<sup>(1)</sup> For a 5 m cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS508BLPAL2 becomes XS508BLPAL5 with a 5 m cable.

XSZB130

Ø 30

0.020 (0.04)

proximity sensors
General purpose
Cylindrical, standard range, flush mountable
Three-wire DC, solid-state output

Sensor type			XS5eeB1eeM8, XS5eeB1eeM12 XS5eeBLeeM8, XS5eeBLeeM12	XS5eeB1eeL2 XS5eeBLeeL2		
Product certifications			UL, CSA, C€			
Connection	Connector		M8 on Ø 6.5 and Ø 8, M12 on Ø 8, Ø 12, Ø 18 and Ø 30	-		
	Pre-cabled		-	Length 2 m		
Operating zone	Ø 6.5 and Ø 8	mm	0-1.2 (0-0.05 in.)			
	Ø 12	mm	0-1.6 (0-0.06 in.)			
	Ø 18	mm	0-4 (0-0.28 in.)			
	Ø 30	mm	0-8 (0-0.31 in.)			
Differential travel		%	1–15 of effective sensing distance (Sr)			
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68, double insulation (except Ø 6.5 and Ø 8: IP 67)		
	Conforming to DIN 40050		IP 69K for Ø 12 to Ø 30			
Storage temperature		°C	-40 to +85 (-40 to +185 °F)			
Operating temperature		°C	-25 to +70 (-13 to +158 °F)			
Materials	Case		Nickel plated brass (except XS5 06 and XS5 08BL: stainless steel, grade 303)			
	Sensing face		PPS			
	Cable		-	PvR 3 x 0.34 mm² (22 AWG) except <b>XS506</b> and <b>XS508</b> : 3 x 0.11 mm² (27 AWG)		
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 50 H	z)		
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms	,		
Output state indication			Yellow LED: 4 viewing ports at 90°	Yellow LED: circular		
Rated supply voltage		V	12–48 for XS5●eBL, 12–24 for XS5●eB1 with protection against reverse polarity			
Voltage limits (including r	ipple)	٧	10–58 for XS5●●BL, 10–36 for XS5●●B1			
Switching capacity		mA	≤ 200 with overload and short-circuit pro	otection		
Voltage drop, closed state	ı	٧	≤2			
Current consumption, no-	load	mA	≤ 10			
Maximum switching	XS506, XS508, XS512	Hz	5000			
frequency	XS518	Hz	2000			
	XS530	Hz	1000			
Delays	First-up	ms	≤ 10			
	Response	ms	≤ 0.1 : XS506 , XS508 and XS512 ≤ 0.15 : XS518 ≤ 0.3 : XS530			
	Recovery	ms	≤ 0.1 : X\$506, X\$508 and X\$512 ≤ 0.35 : X\$518 ≤ 0.7 : X\$530			

#### Wiring diagrams, setup, dimensions

### OsiSense® Inductive **proximity sensors**General purpose

Cylindrical, standard range, flush mountable Three-wire DC, solid-state output

#### Wiring diagrams Connector Pre-cabled PNP NPN BK/4 (NO) BN/1 BU: Blue BN: Brown BK: Black BN/1 + BK/4 (NO) PNP NPN $\Diamond$ $\Diamond$

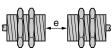
For M8 connector, NO and NC outputs on terminal 4

#### Setup

#### Minimum mounting distances (mm)







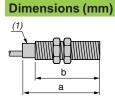


Sensors
Ø 6.5
Ø8
Ø 12
Ø 18
Ø 30

Side by side
e≥3
e ≥ 3
e ≥ 4
e ≥ 10
e ≥ 20

Face to face	
e ≥ 18	
e ≥ 18	
e ≥ 24	
e ≥ 60	
e ≥ 120	

Facing a metal object
e ≥ 4.5
e ≥ 4.5
e ≥ 6
e ≥ 15
e ≥ 30



(1)	I FD
('/	

Sensors			Pre-ca	abled (mm)	М8 со	nnector (mm)	M12 co	nnector (mm)
Short ca	se model		а	b	а	b	а	b
	Ø 6.5	XS506B1	33	-	42	_	45	_
	Ø8	XS508B1	33	25	42	26	45	24
	Ø 12	XS512B1	35	25		_	50	30
	Ø 18	XS518B1	39	28			50	28
	Ø 30	XS530B1	43	32		_	55	32
Sensors			Pre-ca	abled (mm)	M12 co	onnector (mm)		
Long cas	se model		а	b	а	b		
	Ø 6.5	XS506BL	51	-	-	-		
	Ø8	XS508BL	51	42	62	40		
	Ø 12	XS512BL	53	42	62	42		
	Ø 18	XS518BL	62	52	74	52		
	Ø 30	XS530BL	62	52	74	52		

proximity sensors
General purpose
Cylindrical, standard range, flush mountable Two-wire DC









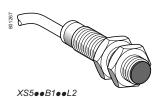
Sensing dist.	Eupotion	Connection	Catalog	Weig	ht
Sensing dist.	Function	Connection	Number	kg	nt (lb)
Ø 6.5, plain				9	()
1.5 (0.06)	NO	Pre-cabled (1)	XS506BSCAL2	0.035	(0.08
	terminals 1 & 4 (2)	Remote M12 connector	XS506BSCAL01M12	0.050	(0.11
	NC	Pre-cabled (1)	XS506BSCBL2	0.035	(0.08
Ø 8, threaded	M8 x 1				
1.5 (0.06)	NO	Pre-cabled (1)	XS508BSCAL2	0.035	(0.08
	terminals 1 & 4 (2)	Remote M12 connector	XS508BSCAL01M12	0.050	(0.11
		Remote M12 connector	XS508BSCAL08M12	0.050	(0.11
	NC	Pre-cabled (1)	XS508BSCBL2	0.035	(0.08
		Remote M12 connector	XS508BSCBL01M12	0.050	(0.11
Ø 12, threaded	d M12 x 1				
2 (0.08)	NO	Pre-cabled (1)	XS512BSDAL2	0.075	(0.17
		M12 connector	XS512BSDAM12	0.035	(0.08
	NO	M12 connector	XS512BSCAM12	0.035	(0.08
	terminals 1 & 4 (2)	Remote M12 connector	XS512BSCAL08M12	0.060	(0.13
	NC	Pre-cabled (1)	XS512BSDBL2	0.075	(0.17
		M12 connector	XS512BSDBM12	0.035	(0.08
Ø 18, threaded	d M18 x 1				
5 (0.20)	NO	Pre-cabled (1)	XS518BSDAL2	0.120	(0.26
		M12 connector	XS518BSDAM12	0.060	(0.13
	NO	M12 connector	XS518BSCAM12	0.060	(0.13
	terminals 1 & 4 (2)	Remote M12 connector	XS518BSCAL08M12	0.085	(0.19
	NC	Pre-cabled (1)	XS518BSDBL2	0.120	(0.26
		M12 connector	XS518BSDBM12	0.060	(0.13
Ø 30, threaded	d M30 x 1.5				
10 (0.39)	NO	Pre-cabled (1)	XS530BSDAL2	0.205	(0.45
		M12 connector	XS530BSDAM12	0.145	(0.32
	NO	M12 connector	XS530BSCAM12	0.145	(0.32
	terminals 1 & 4 (2)	Remote M12 connector	XS530BSCAL08M12	0.170	(0.37
	NC	Pre-cabled (1)	XS530BSDBL2	0.205	(0.45
		M12 connector	XS530BSDBM12	0.145	(0.32

Accessories				
Description	For use with sensors	Catalog Number	Weigh kg	t (lb)
Mounting	Ø 6.5 (plain)	XSZ B165	0.005	(0.01)
clamps	Ø 8	XSZB108	0.006	(0.01)
	Ø 12	XSZB112	0.006	(0.01)
	Ø 18	XSZB118	0.010	(0.02)
	Ø 30	XSZB130	0.020	(0.04)

 <sup>(1)</sup> For a 5 m long cable replace L2 with L5; for a 10 m cable replace L2 with L10.
 Example: XS508BSCAL2 becomes XS508BSCAL5 with a 5 m cable.

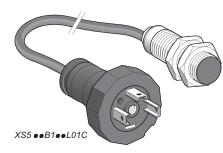
 (2) The NO output is connected to terminals 1 and 4 of the M12 connector.

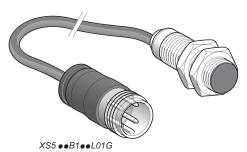
**proximity sensors**General purpose
Cylindrical, standard range, flush mountable Two-wire DC













Sensing		-48 V, long case mod	Catalog	Weigl	ht
distance Sn, mm	runction	Connection	Number	kg	(lb
(in.)					
Ø 8, threa	aded M8 x 1				
1.5 (0.06)	NO	Pre-cabled (1)	XS508B1DAL2	0.035	(0.0)
		Remote M12 connector	XS508B1DAL08M12	0.050	(0.1
		M12 connector	XS508B1DAM12	0.025	(0.0)
	NO	M12 connector	XS508B1CAM12	0.025	(0.0)
	terminals 1 & 4 (3)	Remote M12 connector	XS508B1CAL08M12	0.050	(0.1
	NC	Pre-cabled (1)	XS508B1DBL2	0.035	(0.0
		M12 connector	XS508B1DBM12	0.025	(0.0
Ø 12, thre	eaded M12 x 1				
2 (0.08)	NO	Pre-cabled (1)	XS512B1DAL2	0.075	(0.1
, ,		Remote 7/8" connector	XS512B1DAL08U78	0.050	(0.1
		M12 connector	XS512B1DAM12	0.035	(0.0
	NO	M12 connector	XS512B1CAM12	0.035	(0.0
	terminals 1 & 4 (3)	Remote M12 connector	XS512B1CAL08M12		(0.1
	NC	Pre-cabled (1)	XS512B1DBL2	0.075	(0.1
		M12 connector	XS512B1DBM12	0.035	(0.0
		Remote M12 connector	XS512B1DBL08M12		(0.1
Ø 18. thre	eaded M18 x 1				(51
(0.20)	NO	Pre-cabled (1)	XS518B1DAL2	0.120	(0.2
(0.20)	110	Low temperature version (- 40 °C)			(0.2
		Remote screw terminal connector (2)		0.085	(0.2
		Remote DIN 43650A connector	XS518B1DAL01C	0.085	(0.1
		Remote M18 connector	XS518B1DAL01G	0.085	(0.1
		M12 connector	XS518B1DAM12	0.060	(0.1
	NO	M12 connector	XS518B1CAM12	0.060	(0.1
		Remote M12 connector	XS518B1CAL08M12		(0.1
	NC	Pre-cabled (1)	XS518B1DBL2	0.120	(0.2
	NO	M12 connector	XS518B1DBM12	0.060	(0.2
		Remote M12 connector	XS518B1DBL08M12		(0.1
		Remote screw terminal connector (2)		0.120	(0.2
Ø 30 thre	eaded M30 x 1.5	Remote screw terminal connector (2)	X3310BIDBLUIB	0.120	(0.2
0 (0.39)	NO	Pre-cabled (1)	XS530B1DAL2	0.205	(0.4
10 (0.55)	NO	Low temperature version (- 40 °C)			(0.2
		M12 connector	XS530B1DAM12	0.125	(0.3
		Remote screw terminal connector (2)		0.205	(0.4
		Remote DIN 43650A connector	XS530B1DAL01C	0.205	(0.4
		Remote M18 connector	XS530B1DAL01G	0.205	
	NO	M12 connector	XS530B1CAM12	0.205	(0.4
		Remote M12 connector	XS530B1CAM12		
	NC	Pre-cabled (1)	XS530B1CAL06W12	0.170	(0.3
	NC		XS530B1DBL2	0.205	(0.4
		M12 connector			(0.3
Accesso	wie o	Remote screw terminal connector (2)	X9030BIDBLUIB	0.205	(0.3
		- "			
Descripti	on	For use with sensors	Catalog Number	Weigl kg	ht (Ik
Mounting	clamne	Ø8	XSZB108	0.006	(0.0
nounting	ciaiiips	Ø 12	XSZB112		
		W 12	AULDIIZ	0.006	(0.0
		Ø 18	XSZB118	0.010	(0.0

- (1) For a 5 m cable replace L2 with L5; for a 10 m long cable replace L2 with L10. Example: XS508B1DAL2 becomes XS508B1DAL5 with a 5 m long cable.
- (2) Protective cable gland included with remote screw terminal connector. (3) The NO output is connected to terminals 1 and 4 of the M12 connector.
- (4) For a 5 m long cable replace L2 with L5.

Example: XS518B1DAL2TF becomes XS518B1DAL5TF with a 5 m long cable.

For PUR cable, replace the letter L in the reference with P.

Example: XS518B1DAL2TF becomes XS518B1DAP2TF with PUR cable.

For a 5 m long PUR cable replace P2 with P5.

Example: XS518B1DAP2TF becomes XS518B1DAP5TF with a 5 m long PUR cable.

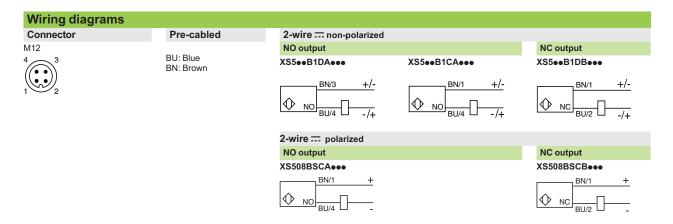
proximity sensors
General purpose
Cylindrical, standard range, flush mountable Two-wire DC

Sensor type			XS5eeB1eeM12, XS5eeBSeeM12	XS5eeB1DeL2, XS5eeBSDeL2		
Product certifications			UL, CSA, C€	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Connection	Connector		M12	-		
	Pre-cabled		-	Length 2 m		
	Remote connector		Remote M12 connector (L01M12), screw terminal (L01B), DIN 43650A (L01C remote M18 connector (L01G) on 0.15 m flying lead.  Remote M12 (L08M12) or 7/8" (L08U78) connector on 0.80 m flying lead.			
Operating zone	Ø 6.5	mm	0–1.2 (0–0.05 in.)			
	Ø 8	mm	0–1.2 (0–0.05 in.)			
	Ø 12	mm	0–1.6 (0–0.06 in.)			
	Ø 18	mm	0–4 (0–0.16 in.)			
	Ø 30	mm	0–8 (0–0.31 in.)			
Differential travel		%	1–15 of effective sensing distance (Sr)			
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and □ IP 68, double insulation (except Ø 6.5 and Ø 8: IP 67)		
Storage temperature			-40 to +85 (-40 to +185 °F)			
Operating temperature			-25 to +70 (-13 to +158 °F); TF products: -40 to +70 (-40 to +158 °F)			
Vaterials	Case		Nickel plated brass (except XS506 and 2	XS508B1: stainless steel, grade 303)		
	Sensing face		PPS			
	Cable		-	PvR 2 x 0.34 mm² (22 AWG) except XS506 and XS508: 2 x 0.11 mn (27 AWG) PUR available (1)		
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz	2)		
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms			
Output state indication			Yellow LED: 4 viewing ports at 90°	Yellow LED: circular		
Rated supply voltage		V	12–48 non-polarized for XS5●●B1D, 12–24 non-polarized for XS5●●BS (except Ø 6.5 and Ø 8 short case models, v are polarized) with protection against reverse polarity			
Voltage limits (including	ripple)	V	=== 10–58 for XS5••B1D, === 10–36 for XS5••BS			
Switching capacity		mA	1.5–100 with overload and short-circuit	protection		
Voltage drop, closed stat	te	٧	≤ 4			
Residual current, open s	tate	mA	≤ 0.5			
Maximum switching	XS506, XS508, XS512	Hz	4000			
requency	XS518	Hz	3000			
	XS530	Hz	2000			
Delays	First-up	ms	≤ 10			
-	Response	ms	≤ 0.2 : XS506, XS508 and XS512 ≤ 0.15 : XS518 ≤ 0.3 : XS530			
	Recovery	ms	≤ 0.2 (except <b>XS530B1</b> : ≤ 0.3)			

<sup>(1)</sup> For PUR cable, replace the letter L in the reference with P. Example: XS506BSDAL2 becomes XS5 06BSDAP2 with PUR cable.

#### OsiSense® Inductive proximity sensors

General purpose Cylindrical, standard range, flush mountable Two-wire DC



#### Remote connectors LO1B, LO1C, LO1G

#### Screw terminal (LO1B)

The terminal numbering differs according to the version ( $\overline{...}$  2-wire,  $\overline{...}$  3-wire,  $\overline{\sim}$  2-wire).

#### DIN 43650 A (LO1C)



The NO or NC outputs are connected to terminal 2.



#### Setup

#### Minimum mounting distances (mm)



Ø 6.5

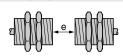
Ø8

Ø 12

Ø 18

Ø 30



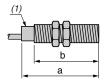


Face to face
e ≥ 18
e ≥ 18
e ≥ 24
e ≥ 60
e ≥ 120



Facing a metal object
e ≥ 4.5
e ≥ 4.5
e ≥ 6
e ≥ 15
e ≥ 30

#### **Dimensions (mm)**



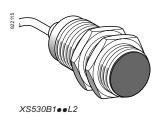
(1) LED

Sensors		Pre-ca	Pre-cabled (mm)		M8 connector (mm)		M12 connector (mm)	
Short case	model		а	b	а	b	а	b
	Ø 6.5	XS506BS	33	_	42	_	45	_
	Ø8	XS508BS	33	25	42	26	45	24
	Ø 12	XS512BS	35	25		-	50	30
	Ø 18	XS518BS	39	28		-	50	28
	Ø 30	XS530BS	43	32	_	-	55	32
Sensors			Pre-ca	abled (mm)	M12 co	onnector (mm)		
Long case i	model		а	b	а	b		
	Ø8	XS508B1	51	42	62	40		
	Ø 12	XS512B1	53	42	62	42		
	Ø 18	XS518B1	62	52	74	52		
	Ø 30	XS530B1	62	52	74	52		

proximity sensors
General purpose
Cylindrical, standard range, flush mountable Two-wire AC or DC (1)









Sensors, 2-w	ire 24–240	0 V ≂, long case mo	odel		
Ø 12, threaded M12	2 x 1				
Sensing distance Sn, mm (in.)	Function	Connection	Catalog Number	Weigl kg	ht (lb)
2 (0.08)	NO	Pre-cabled (1)	XS512B1MAL2	0.075	(0.17)
		1/2"-20UNF connector	XS512B1MAU20	0.025	(0.06)
	NC	Pre-cabled (1)	XS512B1MBL2	0.075	(0.17)
		1/2"-20UNF connector	XS512B1MBU20	0.025	(0.06)

Ø 18, threaded M18 x 1								
Sensing distance Sn, mm (in.)	Function	Connection	Catalog Number	Weigh kg	nt (lb)			
5 (0.20)	NO	Pre-cabled (1)	XS518B1MAL2	0.100	(0.22)			
		1/2"-20UNF connector	XS518B1MAU20	0.060	(0.13)			
	NC	Pre-cabled (1)	XS518B1MBL2	0.100	(0.22)			
		1/2"-20UNF connector	XS518B1MBU20	0.060	(0.13)			

Ø 30, threaded M30	0 x 1.5				
Sensing distance Sn, mm (in.)	Function	Connection	Catalog Number	Weig kg	ht (lb)
10 (0.39)	NO	Pre-cabled (1)	XS530B1MAL2	0.205	(0.45)
		1/2"-20UNF connector	XS530B1MAU20	0.145	(0.32)
	NC	Pre-cabled (1)	XS530B1MBL2	0.205	(0.45)
		1/2"-20UNF connector	XS530B1MBU20	0.145	(0.32)

Accessories				
Description	For use with sensors	Catalog Number	Weigl kg	ht (lb)
Mounting clamps	Ø 12	XSZB112	0.006	(0.01)
	Ø 18	XSZB118	0.010	(0.02)
	Ø 30	XSZB130	0.020	(0.04)

<sup>(1)</sup> For a 5 m long cable replace L2 with L5; for a 10 m cable replace L2 with L10.

Example: XS512B1MAL2 becomes XS512B1MAL5 with a 5 m cable.

Specifications, wiring diagrams, setup, dimensions

# OsiSense® Inductive proximity sensors General purpose

General purpose
Cylindrical, standard range, flush mountable
Two-wire AC or DC

Sensor type			XS5eeB1MeU20	XS5eeB1MeL2		
Product certifications			UL, CSA, C€	•		
Connection	Connector		1/2"-20UNF	-		
	Pre-cabled		_	Length 2 m		
Operating zone	Ø 12	mm	0–1.6 (0–0.05 in.)	•		
	Ø 18	mm	0–4 (0–0.16 in.)			
	Ø 30	mm	0–8 (0–0.31 in.)			
Differential travel		%	1–15 of effective sensing distance (Sr)			
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68, double insulation		
	Conforming to DIN 40050		IP 69K			
Storage temperature		°C	-40 to +85 (-40 to +185 °F)			
Operating temperature		°C	-25 to +70 (-13 to +158 °F)			
Materials	Case		Nickel plated brass			
	Sensing face		PPS			
	Cable		_	PvR 2 x 0.34 mm <sup>2</sup> (22 AWG)		
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)			
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms			
Output state indication			Yellow LED: 4 viewing ports at 90°	Yellow LED: circular		
Rated supply voltage		V	$\sim$ or == 24–240 ( $\sim$ 50/60 Hz)			
Voltage limits (including	g ripple)	V	$\sim$ or == 20–264			
Switching capacity	XS512B1Meee	mA	5–200 (1)			
	XS518B1Meee, XS530B1Meee	mA	$\sim$ 5–300 or == 5–200 (1)			
Voltage drop, closed sta	ite	V	≤5.5			
Residual current, open	state	mA	≤0.8			
Maximum switching	XS512B1 • • • , XS518B1M • • •	Hz	~ 25 or <del></del> 1000			
frequency	XS530B1M●●●	Hz	~ 25 or == 500			
Delays	First-up	ms	≤ 20 XS512B1Meee, ≤ 25 XS518B1Meee and XS530B1Meee			
	Response	ms	≤0.5			
	Recovery	ms	≤ 0.2 XS512B1Meee, ≤ 0.5 XS518B1Meee, ≤ 2 XS530B1Meee			

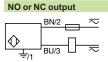
#### Wiring diagrams

Connector 1/2"-20UNF



#### Pre-cabled

BU: Blue BN: Brown



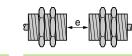
2-wire  $\sim$  or  $\overline{...}$ 

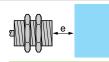
±: on connector models only

#### Setup

#### Minimum mounting distances (mm)







Sensor	
Ø 12	
Ø 18	
Ø 30	

Side by side
e≥8
e ≥ 16
e > 30

Face to face	
e ≥ 48	
e ≥ 100	
e ≥ 180	

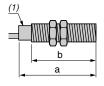
Facing a metal object

e ≥ 12

e ≥ 25

e ≥ 45

#### Dimensions (mm)



Sensor	
XS512B1M	
XS518B1M	
XS530B1M	

Pre-cabled (mm)					
а	b				
53	42				
62	52				
62	52				

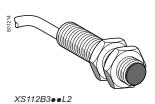
Connector (mm)					
а	b				
62	42				
73	52				
73	52				

(1) LED

proximity sensors
General purpose
Cylindrical, increased range, flush mountable
Three-wire DC, solid-state output







Senso	rs, 3-w	ire 12-	-24 V <del></del> , short ca	ase mo	odel		
Sensing distance Sn, mm (in.)		Output	Connection	Sold in lots of	Catalog Number	Weig kg	ht (lb)
Ø 6.5, pla	ain						
2.5 (0.10)	NO	PNP	Pre-cabled (1)	1	XS106B3PAL2	0.060	(0.13
			M8 connector	1	XS106B3PAM8	0.030	(0.07
			M12 connector	1	XS106B3PAM12	0.050	(0.11
			Pre-cabled	20	XS106B3PAL2TQ	0.980	(2.16
			M8 connector	20	XS106B3PAM8TQ	0.320	(0.71
		NPN	Pre-cabled	1	XS106B3NAL2	0.060	(0.13
			M8 connector	1	XS106B3NAM8	0.030	(0.07
	NC	PNP	Pre-cabled (1)	1	XS106B3PBL2	0.060	(0.13
			M8 connector	1	XS106B3PBM8	0.030	(0.07
		NPN	Pre-cabled	1	XS106B3NBL2	0.060	(0.13
			M8 connector	1	XS106B3NBM8	0.030	(0.07
	aded M8 x						
2.5 (0.10)	NO	PNP	Pre-cabled (1)	1	XS108B3PAL2	0.070	(0.15
			M8 connector	1	XS108B3PAM8	0.030	(0.07
			M12 connector	1	XS108B3PAM12	0.060	(0.13
			Pre-cabled	20	XS108B3PAL2TQ	1.120	(2.47
			M8 connector	20	XS108B3PAM8TQ	0.460	(1.01
			M12 connector	20	XS108B3PAM12TQ	0.940	(2.07
		NPN	Pre-cabled (1)	1	XS108B3NAL2	0.070	(0.15
			M8 connector	1	XS108B3NAM8	0.030	(0.07
			M12 connector	1	XS108B3NAM12	0.060	(0.13
			Pre-cabled	20	XS108B3NAL2TQ	1.120	(2.47
			M8 connector	20	XS108B3NAM8TQ	0.460	(1.01
	NC	PNP	Pre-cabled (1)	1	XS108B3PBL2	0.070	(0.15
			M8 connector	1	XS108B3PBM8	0.030	(0.07
			M12 connector	1	XS108B3PBM12	0.060	(0.13
		NPN	Pre-cabled (1)	1	XS108B3NBL2	0.070	(0.15
			M8 connector	1	XS108B3NBM8	0.030	(0.07
			M12 connector	1	XS108B3NBM12	0.060	(0.13
	eaded M12		D 11 1 (1)		VOLLOBORALO	0.000	(0.00
4 (0.16)	NO	PNP	Pre-cabled (1)	1	XS112B3PAL2	0.090	(0.20
			M12 connector	1	XS112B3PAM12	0.030	(0.07
			Pre-cabled	20	XS112B3PAL2TQ	1.600	(3.53
		NIDNI	M12 connector	20	XS112B3PAM12TQ	0.470	(1.04
		NPN	Pre-cabled (1)	1	XS112B3NAL2	0.090	(0.20
			M12 connector		XS112B3NAM12	0.030	(0.07
			Pre-cabled	20	XS112B3NAL2TQ	1.600	(3.53
	NC	DND	M12 connector	20	XS112B3NAM12TQ		(1.04
	NC	PNP	Pre-cabled (1)	1	XS112B3PBL2	0.090	(0.20
			M12 connector	1	XS112B3PBM12	0.030	(0.07
		NIDNI	M12 connector	20	XS112B3PBM12TQ	0.470	(1.04
		NPN	Pre-cabled (1)	1	XS112B3NBL2	0.090	(0.20
			M12 connector	1	XS112B3NBM12	0.030	(0.07

(1) For a 5 m cable replace L2 with L5. Example: XS106B3PAL2 becomes XS106B3PAL5 with a 5 m cable.

proximity sensors
General purpose
Cylindrical, increased range, flush mountable
Three-wire DC, solid-state output









Senso	rs. 3-wi	re 12-	-24 V, short c	ase mod	el (continued)		
	Function		Connection	Sold in lots of	Catalog Number	Weigl kg	nt (lb)
Ø 18, thre	eaded M18	x1					
8 (0.31)	NO	PNP	Pre-cabled (1)	1	XS118B3PAL2	0.110	(0.24)
			M12 connector	1	XS118B3PAM12	0.060	(0.13)
			Pre-cabled	20	XS118B3PAL2TQ	2.000	(4.41)
			M12 connector	20	XS118B3PAM12TQ	1.140	(2.51)
		NPN	Pre-cabled (1)	1	XS118B3NAL2	0.110	(0.24)
			M12 connector	1	XS118B3NAM12	0.060	(0.13)
			Pre-cabled	20	XS118B3NAL2TQ	2.000	(4.41)
			M12 connector	20	XS118B3NAM12TQ	1.140	(2.51)
	NC	PNP	Pre-cabled (1)	1	XS118B3PBL2	0.110	(0.24)
			M12 connector	1	XS118B3PBM12	0.060	(0.13)
		NPN	Pre-cabled (1)	1	XS118B3NBL2	0.110	(0.24)
			M12 connector	1	XS118B3NBM12	0.060	(0.13)
Ø 30, thre	eaded M30	x 1.5					
15 (0.59)	NO	PNP	Pre-cabled (1)	1	XS130B3PAL2	0.180	(0.40)
			M12 connector	1	XS130B3PAM12	0.130	(0.29)
			Pre-cabled	20	XS130B3PAL2TQ	3.360	(7.41)
			M12 connector	20	XS130B3PAM12TQ	2.000	(4.41)
		NPN	Pre-cabled (1)	1	XS130B3NAL2	0.180	(0.40)
			M12 connector	1	XS130B3NAM12	0.130	(0.29)
			M12 connector	20	XS130B3NAM12TQ	2.000	(4.41)
	NC	PNP	Pre-cabled (1)	1	XS130B3PBL2	0.180	(0.40)
			M12 connector	1	XS130B3PBM12	0.130	(0.29)
		NPN	Pre-cabled (1)	1	XS130B3NBL2	0.180	(0.40)
			M12 connector	1	XS130B3NBM12	0.130	(0.29)
Accesso	ries						
Descript	ion		For use with sensors		Catalog Number	Weigh kg	nt (lb)
Mounting	clamps		Ø 6.5 (plain)		XSZB165	0.005	(0.01)
			Ø 8 (M8 x 1)		XSZB108	0.006	(0.01)
			Ø 12 (M12 x 1)		XSZB112	0.006	(0.01)
			Ø 18 (M18 x 1)		XSZB118	0.010	(0.02)
			Ø 30 (M30 x 1.5)		XSZB130	0.020	(0.04)

(1) For a 5 m long cable replace L2 with L5. Example: XS118B3PAL2 becomes XS118B3PAL5 with a 5 m long cable.

### OsiSense® Inductive proximity sensors General purpose Cylindrical, increased range, flush mountable

Three-wire DC, solid-state output

	Selisors	, 3-wire	12–48 \	/ <mark>, long case mode</mark> l			
	Sensing dist. Sn, mm (in.)	Function	Output	Connection	Catalog Number	Weig kg	ht
	Ø 8, threade	d M8 x 1					
	2.5 (0.10)	NO	PNP	Pre-cabled (1)	XS608B1PAL2	0.035	(0
	2.0 (0.10)	110		M12 connector	XS608B1PAM12	0.015	(0
			NPN	Pre-cabled (1)	XS608B1NAL2	0.035	(0
				M12 connector	XS608B1NAM12	0.015	(0
		NC	PNP	Pre-cabled (1)	XS608B1PBL2	0.035	(0
		110		M12 connector	XS608B1PBM12	0.015	((
			NPN	Pre-cabled (1)	XS608B1NBL2	0.035	((
S6••B1••L2			INI IN	M12 connector	XS608B1NBM12	0.035	()
	Ø 12, thread	ed M12 x 1		W12 dollinodol	ACCOUNT THE MILE	0.010	(
	4 (0.16)	NO	PNP	Pre-cabled (1)	XS612B1PAL2	0.075	((
				M12 connector	XS612B1PAM12	0.020	(
			NPN	Pre-cabled (1)	XS612B1NAL2	0.075	(
				M12 connector	XS612B1NAM12	0.020	(
		NC	PNP	Pre-cabled (1)	XS612B1PBL2	0.075	(
		110		M12 connector	XS612B1PBM12	0.020	(
66••B1••M12			NPN	Pre-cabled (1)	XS612B1NBL2	0.075	(
			INI IN	M12 connector	XS612B1NBM12	0.020	(
	Ø 18. thread	ad M18 v 1		WHZ CONNECTOR	A3012D INDIVITZ	0.020	(
	8 (0.31)	NO	PNP	Pre-cabled (1)	XS618B1PAL2	0.100	(
	0 (0.31)	140	LINE	M12 connector	XS618B1PAM12	0.100	(
				Remote screw term. connector		0.040	(
							_
				Remote DIN 43650 connector		0.100	(
				Remote M18 connector	XS618B1PAL01G	0.100	(
			NPN	Pre-cabled (1)	XS618B1NAL2	0.100	(
				M12 connector	XS618B1NAM12	0.040	(
6 ●●B1●●L01B (2)				Remote screw term. connector	XS618B1NAL01B (2)	0.100	(
				Remote DIN 43650 connector	XS618B1NAL01C	0.100	(
		NC	PNP	Pre-cabled (1)	XS618B1PBL2	0.100	(
				M12 connector	XS618B1PBM12	0.040	(
				Remote screw term. connector	XS618B1PBL01B (2)	0.100	(
	$ \geq $			Remote DIN 43650 connector	XS618B1PBL01C	0.100	(
			NPN	Pre-cabled (1)	XS618B1NBL2	0.100	(
	ď			M12 connector	XS618B1NBM12	0.040	(
				Remote screw term. connector	XS618B1NBL01B (2)	0.100	(
				Remote DIN 43650 connector	. ,	0.100	(
	Ø 30, thread	ed M30 x 1.	5				
	Ø 30, thread 15 (0.59)	ed M30 x 1. NO	5 PNP	Pre-cabled (1)	XS630B1PAL2	0.205	(
66 a Blood OIC	1			Pre-cabled (1) M12 connector	XS630B1PAL2 XS630B1PAM12	0.205 0.145	
6 ••B1••L01C	1			M12 connector	XS630B1PAM12	0.145	(
66 •• B1 •• L01C	1			M12 connector Remote screw term. connector	XS630B1PAM12 XS630B1PAL01B (2)	0.145 0.205	(
66 •• B1 •• L01C	1			M12 connector	XS630B1PAM12 XS630B1PAL01B (2)	0.145	(
6 •• B1••L01C	1			M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C	0.145 0.205 0.205	(
6 • • B1 • • L01C	1		PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1)	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2	0.145 0.205 0.205 0.205 0.205	(
6 ••B1••L01C	1		PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12	0.145 0.205 0.205 0.205 0.205 0.205 0.145	()
6 ••B1••L01C	1		PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2)	0.145 0.205 0.205 0.205 0.205 0.145 0.205	(
6 •• B1••L01C	1	NO	PNP NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205	
6 •• B1••L01C	1		PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1)	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205	
6 •• B1••L01C	1	NO	PNP NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBM12	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205	
	1	NO	PNP NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBM12 XS630B1PBL01B (2)	0.145 0.205 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.145 0.205	
	1	NO	PNP NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote Screw term. connector Remote Screw term. connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBM12 XS630B1PBL01B (2) XS630B1PBL01C	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.145 0.205 0.205	
	1	NO	NPN PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBL2 XS630B1PBL01B (2) XS630B1PBL01B (2) XS630B1PBL01G	0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	
	1	NO	PNP NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1)	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAL01B (2) XS630B1NAL01C XS630B1NAL01C XS630B1PBL2 XS630B1PBL01B (2) XS630B1PBL01B (2) XS630B1PBL01G XS630B1PBL01G XS630B1PBL01G	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205	
	1	NO	NPN PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBL2 XS630B1PBL01B (2) XS630B1PBL01B (2) XS630B1PBL01G	0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	
	1	NO	NPN PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Remote M18 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term.connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBM12 XS630B1PBM12 XS630B1PBM12 XS630B1PBL01B (2) XS630B1PBL01C XS630B1PBL01G XS630B1NBL01C XS630B1NBL01C XS630B1NBL01B (2)	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205	
	15 (0.59)	NO NC	NPN PNP	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBM12 XS630B1PBM12 XS630B1PBM12 XS630B1PBL01B (2) XS630B1PBL01C XS630B1PBL01G XS630B1NBL01C XS630B1NBL01C XS630B1NBL01B (2)	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	
66 •• B1 •• L01G	15 (0.59)	NO NC	PNP NPN NPN	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Remote M18 connector Remote M18 connector Remote Screw term. connector Remote Screw term. connector Remote Screw term. connector Remote Screw term. connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBM12 XS630B1PBM12 XS630B1PBL01B (2) XS630B1PBL01C XS630B1PBL01G XS630B1PBL01G XS630B1NBL01C XS630B1NBL01C XS630B1NBM12 XS630B1NBM12 XS630B1NBM01C	0.145 0.205 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205	
66 •• B1 •• L01G	15 (0.59)	NO NC	PNP NPN NPN For use	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote Screw term.connector Remote Screw term.connector Remote DIN 43650 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01C XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBL01B (2) XS630B1PBL01B (2) XS630B1PBL01C XS630B1PBL01C XS630B1PBL01C XS630B1NBL01C XS630B1NBL01C XS630B1NBL01B (2) XS630B1NBL01B (2) XS630B1NBL01B (2)	0.145 0.205	((( (( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
66 •• B1 •• L01G	Accessories Description	NO NC	PNP NPN NPN For use sensors	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote Screw term.connector Remote Screw term.connector Remote DIN 43650 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL01C XS630B1PBL01B (2) XS630B1PBL01G XS630B1PBL01G XS630B1PBL01G XS630B1NBL01 XS630B1NBL01 XS630B1NBL01C XS630B1NBL01B (2) XS630B1NBL01C XS630B1NBL01C Catalog Number	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	((( (( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
66 •• B1 •• L01G	Accessories Description Mounting	NO NC	PNP NPN NPN For use sensors Ø 8	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote Screw term.connector Remote Screw term.connector Remote DIN 43650 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL2 XS630B1PBL01B (2) XS630B1PBL01B (2) XS630B1PBL01G XS630B1PBL01G XS630B1NBL2 XS630B1NBL2 XS630B1NBL2 XS630B1NBL2 XS630B1NBL01C XS630B1NBL01C Catalog Number XSZB108	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	((( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
SG • B1 • LO1G  SZB • • •	Accessories Description	NO NC	PNP NPN NPN For use sensors	M12 connector Remote screw term. connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote screw term. connector Remote DIN 43650 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote DIN 43650 connector Remote DIN 43650 connector Remote M18 connector Pre-cabled (1) M12 connector Remote Screw term. connector Remote Screw term. connector Remote DIN 43650 connector Remote Screw term.connector Remote Screw term.connector Remote DIN 43650 connector	XS630B1PAM12 XS630B1PAL01B (2) XS630B1PAL01G XS630B1PAL01G XS630B1NAL2 XS630B1NAM12 XS630B1NAL01B (2) XS630B1NAL01C XS630B1PBL01C XS630B1PBL01B (2) XS630B1PBL01G XS630B1PBL01G XS630B1PBL01G XS630B1NBL01 XS630B1NBL01 XS630B1NBL01C XS630B1NBL01B (2) XS630B1NBL01C XS630B1NBL01C Catalog Number	0.145 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.145 0.205 0.205 0.205 0.205 0.205 0.205 0.205 0.205	

<sup>(1)</sup> For a  $\overline{5}$  m cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS608B1PAL2 becomes XS608B1PAL5 with a 5 m cable.

<sup>(2)</sup> Protective cable gland included with remote screw terminal connector.

Specifications, wiring diagrams, setup, dimensions

### OsiSense® Inductive **proximity sensors**General purpose

Cylindrical, increased range, flush mountable Three-wire DC, solid-state output

Sensor type			XS1/XS6eeBeeeM8	XS1/XS6eeBeeeM12	XS1/XS6eeBeeeL2			
Product certifications			UL, CSA, C€	UL, CSA, C€				
Connection	Connector		M8	M12	-			
	Pre-cabled		-	-	Length 2 m			
	Remote connector		Remote screw terminal (L01B), DIN 43650 (L01C) or M18 connector (L01G) or flying lead					
Operating zone	Ø 6.5 and Ø 8	mm	0–2 (0–0.08 in.)					
	Ø 12	mm	0–3.2 (0–0.13 in.)					
	Ø 18	mm	0-6.4 (0-0.25 in.)					
	Ø 30	mm	n 0–12 (0–0.47 in.)					
Differential travel		%	1–15 of effective sensing dist	tance (Sr)				
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67		IP 65 and IP 68, double insulation ☐ except Ø 6.5 and Ø 8: IP 67			
	Conforming to DIN 40050		IP 69K for Ø 12, 18 and 30 sensors					
Storage temperature		°C	-40 to +85 (-40 to +185 °F)					
Operating temperature		°C	-25 to +70 (-13 to +158 °F)					
Materials	Case		Nickel plated brass (except XS608: stainless steel, grade 303)					
	Sensing face		PPS					
	Cable		_		PvR 3 x 0.34 mm <sup>2</sup> (22 AWG) except Ø 6.5 and 8: 3 x 0.11 mm (27 AWG) <sup>2</sup>			
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)					
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms					
Output state indication			Yellow LED, 4 viewing ports a	at 90°	Yellow LED, circular			
Rated supply voltage		٧	XS1:: 12–24 with protection against reverse polarity XS6:: 12–48 with protection against reverse polarity					
Voltage limits (including ripple)		٧	<b>XS1</b> : == 10–36; <b>XS6</b> : == 10–58					
Switching capacity		mΑ	≤ 200 with overload and shor	t-circuit protection				
Voltage drop, closed state		٧	≤2					
Current consumption, no-load			≤10					
Maximum switching frequency	Ø 6.5, Ø 8 and Ø 12	Hz	2500					
	Ø 18	Hz	1000					
	Ø 30	Hz	500					
Delays	First-up	ms	≤10					
	Response	ms	≤ 0.2 for Ø 6.5, Ø 8 and Ø 12	$, \le 0.3 \text{ for } \emptyset 18, \le 0.6 \text{ for } \emptyset 3$	30			
	Recovery	ms	≤ 0.2 for Ø 6.5, Ø 8 and Ø 12	, ≤ 0.7 for Ø 18, ≤ 1.4 for Ø 3	30			

#### Wiring diagrams

#### Connector





#### Pre-cabled BU: Blue BN: Brown BK: Black

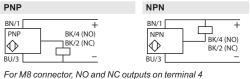
#### Setup







PNP	
BN/1 PNP BU/3	BK/4 (NO) BK/2 (NC)



Sensors	Side by side	Face to face	Facing a metal object
Ø 6.5	e ≥ 5	e ≥ 30	e≥8
Ø8	e ≥ 5	e≥30	e≥8
Ø 12	e ≥ 8	e ≥ 50	e ≥ 12
Ø 18	e ≥ 16	e ≥ 100	e ≥ 24
Ø 30	e ≥ 30	e ≥ 180	e ≥ 45

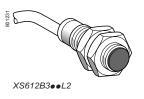
Dimensions (mm)								
<u>(1)</u>	Sensors		Pre-ca	Pre-cabled (mm)		M8 connector (mm)		nnector (mm)
	Short case model			b	а	b	а	b
	Ø 6.5	XS106B3	33	_	42	_	45	-
	Ø 8	XS108B3	33	25	42	26	45	24
	Ø 12	XS112B3	35	25		_	50	30
a •	Ø 18	XS118B3	39	28		_	50	28
(1) LED	Ø 30	XS130B3	43	32	-	-	55	32
	Sensors		Pre-ca	ibled (mm)	M12 co	onnector (mm)		
	Long case model		а	b	а	b		
	Ø 8	XS6 08B1	51	42	62	40		
	Ø 12	XS612B1	53	42	62	42		
	Ø 18	XS618B1	62	52	74	52		
	Ø 30	XS630B1	62	52	74	52		

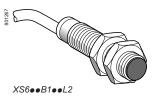
#### Catalog Numbers

### OsiSense® Inductive proximity sensors General purpose Cylindrical, increased range, flush mountable

Two-wire DC, solid-state output











		24 V, short case r		101	
Sensing dist.	Function	Connection	Catalog	Weigl	
Sn, mm (in.)			Number	kg	(lb)
Ø 6.5, plain					
2.5 (0.10)	NO	Pre-cabled (1)	XS606B3CAL2	0.060	(0.13)
		Remote M12 connector	XS606B3CAL01M12	0.070	(0.15
	NC	Pre-cabled (1)	XS606B3CBL2	0.060	(0.13
Ø 8, threaded	d M8 x 1				
2.5 (0.10)	NO	Pre-cabled (1)	XS608B3CAL2	0.070	(0.15)
		Remote M12 connector	XS608B3CAL01M12	0.070	(0.15)
	NC	Pre-cabled (1)	XS608B3CBL2	0.070	(0.15)
		Remote M12 connector	XS608B3CBL01M12	0.070	(0.15)
Ø 12, threade	ed M12 x 1				
4 (0.16)	NO	Pre-cabled (1)	XS612B3DAL2	0.090	(0.20)
		M12 connector	XS612B3DAM12	0.030	(0.07)
	NC	Pre-cabled (1)	XS612B3DBL2	0.090	(0.20)
		M12 connector	XS612B3DBM12	0.030	(0.07)
Ø 18, threade	ed M18 x 1				
8 (0.31)	NO	Pre-cabled (1)	XS618B3DAL2	0.110	(0.24)
		M12 connector	XS618B3DAM12	0.060	(0.13)
	NC	Pre-cabled (1)	XS618B3DBL2	0.110	(0.24)
		M12 connector	XS618B3DBM12	0.060	(0.13)
Ø 30, threade	ed M30 x 1.5				
15 (0.59)	NO	Pre-cabled (1)	XS630B3DAL2	0.180	(0.40)
-		M12 connector	XS630B3DAM12	0.130	(0.29)
	NC	Pre-cabled (1)	XS630B3DBL2	0.180	(0.40)

Sensors,	2-wire 12-	48 V <del></del> , long case	model		
Sensing dist. Sn, mm (in.)	Function	Connection	Catalog Number	Weigh kg	nt (lb
Ø 6.5, plain					
2.5 (0.10)	NO	Pre-cabled (1)	XS606B1DAL2	0.060	(0.1
	NC	Pre-cabled (1)	XS606B1DBL2	0.060	(0.1
Ø 8, threade	d M8 x 1				
2.5 (0.10)	NO	Pre-cabled (1)	XS608B1DAL2	0.035	(0.0
		M12 connector	XS608B1DAM12	0.015	(0.0
	NC	Pre-cabled (1)	XS608B1DBL2	0.035	(0.0
		M12 connector	XS608B1DBM12	0.015	(0.0
Ø 12, thread	ed M12 x 1				
(0.16)	NO	Pre-cabled (1)	XS612B1DAL2	0.180	(0.4
		M12 connector	XS612B1DAM12	0.020	(0.4
	NC	Pre-cabled (1)	XS612B1DBL2	0.075	(0.1
		M12 connector	XS612B1DBM12	0.020	(0.4
Ø 18, thread	ed M18 x 1				
3 (0.31)	NO	Pre-cabled (1)	XS618B1DAL2	0.100	(0.2
		M12 connector	XS618B1DAM12	0.040	(0.0
	NC	Pre-cabled (1)	XS618B1DBL2	0.100	(0.2
		M12 connector	XS618B1DBM12	0.040	(0.0
Ø 30, thread	ed M30 x 1.5				
5 (0.59)	NO	Pre-cabled (1)	XS630B1DAL2	0.205	(0.4
		M12 connector	XS630B1DAM12	0.145	(0.3
	NC	Pre-cabled (1)	XS630B1DBL2	0.205	(0.4
		M12 connector	XS630B1DBM12	0.145	(0.3
Accessories					
Description		For use with sensors	Catalog Number	Weigh kg	nt (Ik
Mounting clam	ıps	Ø 6.5 (plain)	XSZB165	0.005	(0.0
		Ø 8 (M8 x 1)	XSZB108	0.006	(0.0
		Ø 12 (M12 x 1)	XSZB112	0.006	(0.0
		Ø 18 (M18 x 1)	XSZB118	0.010	(0.0)
		,			

(1) For a 5 m cable replace L2 with L5.
Example: XS606B3CAL5 with a 5 m cable.

# Specifications, wiring diagrams, setup, dimensions

### OsiSense® Inductive proximity sensors

General purpose

Cylindrical, increased range, flush mountable Two-wire DC, solid-state output

Specifications			VOC. DOD MAD VOC. DAD 1110	VOC. BOD LO VOC. BAD : C			
Sensor type			XS6••B3D•M12, XS6••B1D•M12	XS6eeB3DeL2, XS6eeB1DeL2			
Product certifications			UL, CSA, C€				
Connection	Connector		M12 or remote M12 connector (L01M12) on 0.15 m flying lead				
	Pre-cabled		Length 2 m				
Operating zone	Ø 6.5 and Ø 8	mm	0–2 (0–0.08 in.)				
	Ø 12	mm	0–3.2 (0–0.13 in.)				
	Ø 18	mm	0–6.4 (0–0.25 in.)	0–6.4 (0–0.25 in.)			
	Ø 30	mm	0–12 (0–0.47 in.)				
Differential travel		%	1–15 of effective sensing distance (Sr)				
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68 double isolation ☐ (except Ø 6.5 and Ø 8: IP 67)			
	Conforming to DIN 40050		IP 69K				
Storage temperature		°C	-40 to +85 (-40 to +185 °F)				
Operating temperature			-25 to +70 (-13 to +158 °F)				
Materials	Case		Nickel plated brass (except XS606B1D or XS608B1D: stainless steel, grade 303)				
	Sensing face		PPS				
	Cable		PvR 2 x 0.34 mm <sup>2</sup> (22 AWG) except Ø 6.5 and Ø 8: 2 x 0.11 mm <sup>2</sup> (27 AWG)				
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)				
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms				
Output state indication			Yellow LED, 4 viewing ports at 90°				
Rated supply voltage		٧	12–48 non-polarized for XS6••B1D, 12–24 non-polarized for XS6••B3D (e are polarized), with protection against rev	except Ø 6.5 and Ø 8 short case models, which			
Voltage limits (including ripple)		٧	10–58 for XS6••B1D 10–36 for XS6••B3D				
Switching capacity		mA	≤ 100 with overload and short-circuit prot	ection			
Voltage drop, closed state		٧	4				
Current consumption, no-load		mA	≤ 0.5 mA				
Maximum switching frequency	Ø 6.5, Ø 8	Hz	3000				
_ , , , , , , , , , , , , , , , , , , ,	Ø 12	Hz	2000				
	Ø 18	Hz	1000				
	Ø 30	Hz	500				
Delays	First-up	ms	≤10				
-	Response	ms	≤0.3				
	Recovery	ms	≤0.3				

# M12 connector 4 3 BU: Blue BN: Brown 2-wire :... non-polarized NO output NC output NC output NC output NC output BN/3 +/ NC output NC output NC output NC output

XS6eeB3CB

BU/2

♦ NC

Minimum mounting distances (mm)

Setting-up





Sensors	Side by side	Face to face	Facing a metal object
Ø 6.5	e≥5	e≥30	e≥8
Ø8	e ≥ 5	e ≥ 30	e≥8
Ø 12	e ≥ 8	e ≥ 50	e ≥ 12
Ø 18	e ≥ 16	e ≥ 100	e≥25
Ø 30	e ≥ 30	e ≥ 180	e≥45

Dillielisions (IIIIII)
а
(1) LED

Wiring diagrams

2-wire --- polarized XS6●●B3CA

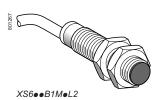
BN/1

NO BU/4

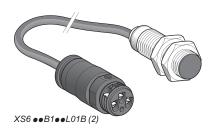
Sensors			Pre-cable	ed (mm)	M12 conr	nector (mm)
Short case r	madal			, ,		b
Short case i	nouei		а	b	а	D
	Ø 6.5	XS606B3D	33	_	_	_
	Ø8	XS608B3D	33	25	-	24
	Ø 12	XS612B3D	35	25	50	30
	Ø 18	XS618B3D	39	28	50	28
	Ø 30	XS630B3D	43	32	55	32
Long case n	nodel		а	b	а	b
	Ø 6.5	XS606B1D	51	_	-	_
	Ø 8	XS608B1D	51	42	62	40
	Ø 12	XS612B1D	53	42	62	42
	Ø 18	XS618B1D	62	52	74	52
	Ø 30	XS630B1D	62	52	74	52

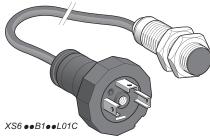
### OsiSense® Inductive proximity sensors General purpose Cylindrical, increased range, flush mountable

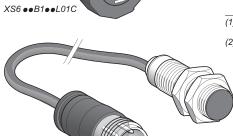
Two-wire AC or DC (1)











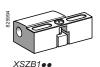
Sensing	Function	Connection	Catalog	Weight		
distance Sn, mm (in	,		Number	kg	(lb)	
Ø 12, threa	aded M12 x 1					
4 (0.16)	NO	Pre-cabled (1)	XS612B1MAL2	0.075	(0.1	
		1/2"-20UNF connector	XS612B1MAU20	0.025	(0.0	
	NC	Pre-cabled (1)	XS612B1MBL2	0.075	(0.1	
		1/2"-20UNF connector	XS612B1MBU20	0.025	(0.0	
Ø 18, threa	aded M18 x 1					
8 (0.31)	NO	Pre-cabled (1)	XS618B1MAL2	0.100	(0.2	
		1/2"-20UNF connector	XS618B1MAU20	0.060	(0.1	
		Remote screw terminal connector	XS618B1MAL01B (2)	0.100	(0.2	
		Remote DIN 43650A connector	XS618B1MAL01C	0.100	(0.2	
		Remote M18 connector	XS618B1MAL01G	0.100	(0.2	
	NC	Pre-cabled (1)	XS618B1MBL2	0.100	(0.2	
		1/2"-20UNF connector	XS618B1MBU20	0.060	(0.1	
		Remote screw terminal connector	XS618B1MBL01B (2)	0.100	(0.2	
		Remote DIN 43650A connector	XS618B1MBL01C	0.100	(0.2	
		Remote M18 connector	XS618B1MBL01G	0.100	(0.2	
Ø 30, threa	aded M30 x 1.	5				
15 (0.59)	NO	Pre-cabled (2)	XS630B1MAL2	0.205	(0.4	
		1/2"-20UNF connector	XS630B1MAU20	0.145	(0.3	
		Remote screw terminal connector	XS630B1MAL01B (2)	0.205	(0.4	
		Remote DIN 43650A connector	XS630B1MAL01C	0.205	(0.4	
		Remote M18 connector	XS630B1MAL01G	0.205	(0.4	
	NC	Pre-cabled (2)	XS630B1MBL2	0.205	(0.4	
		1/2"-20UNF connector	XS630B1MBU20	0.145	(0.3	
		Remote screw terminal connector	XS6 30B1MBL01B (2)	0.205	(0.4	
		Remote DIN 43650A connector	XS6 30B1MBL01C	0.205	(0.4	
		Remote M18 connector	XS6 30B1MBL01G	0.205	(0.4	
Accessori	es					
Descriptio	n	For use with Catalog sensors Number		Weigl kg	ht (lb	
Mounting c	lamps	Ø 12	XSZB112	0.006	(0.0)	
Juniung 0		Ø 18	XSZB118	0.010	(0.0)	
		Ø 10	XCZD110	0.010		

XSZB130

0.020

(0.04)

Ø 30



XS6 ••B1••L01G

<sup>(1)</sup> For a 5 m cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS612B1MAL2 becomes XS612B1MAL5 with a 5 m cable. (2) Protective cable gland included with remote screw terminal connector.

Specifications, wiring diagrams, setup, dimensions

#### OsiSense® Inductive proximity sensors

General purpose Cylindrical, increased range, flush mountable Two-wire AC or DC

Specifications					
Sensor type			XS6●●B1M●U20	XS6••B1M•L•	
Product certifications			UL, CSA, C€		
Connection	Connector		1/2" - 20 UNF	-	
	Pre-cabled		_	Length 2 m	
	Remote connector		Remote screw terminal (L01B), DIN 43650 flying lead	A (L01C) or M18 connector (L01G) on 0.15 n	
Operating zone	Ø 12	mm	0-3.2 (0-0.13 in.)		
	Ø 18	mm	0–6.4 (0–0.25 in.)		
	Ø 30	mm	0–12 (0–0.47 in.)		
Differential travel		%	1–15 of effective sensing distance (Sr)		
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68 double isolation	
	Conforming to DIN 40050		IP 69K		
Storage temperature		°C	-40 to +85 (-40 to +185 °F)		
Operating temperature		°C	-25 to +70 (-13 to +158 °F)		
Materials	Case		Nickel plated brass		
	Sensing face		PPS		
	Cable		PvR 2 x 0.34 mm <sup>2</sup> (22 AWG)		
Vibration resistance	To IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)		
Shock resistance	To IEC 60068-2-27		50 gn, duration 11 ms		
Output state indication			Yellow LED: circular on pre-cabled version Yellow LED with 4 viewing ports at 90° on c		
Rated supply voltage		٧	≂ 24–240 (~ 50/60 hZ)		
Voltage limits (including ripple)		٧	≂20–264		
Switching capacity	XS612B1Meee	mA	5–200 (2)		
	XS618B1M•••, XS630B1M•••	mA	∼ 5–300 or <del></del> 5–200 <i>(1)</i>		
Voltage drop, closed state		٧	≤ 5.5		
Current consumption, no-load		mA	≤0.8		
Maximum switching frequency	Ø 12	Hz	<del></del> 1000 / ∼ 25		
(a.c./d.c. supply)	Ø 18	Hz	<del></del> 1000 / ∼ 25		
	Ø 30	Hz	<del></del> 500 / ∼ 25		
Delays	First-up	ms	≤ 25 for Ø 18 and Ø 30 sensors; ≤ 20 for Ø	12 sensors	
	Response	ms	≤0.5		
	Recovery	ms	≤ 0.2 for Ø 12 sensors; ≤ 0.5 for Ø 18 sensors; ≤ 2 for Ø 30 sensors		

(1) A 0.4 A "fast-acting" fuse must be connected in series with the load.

#### Wiring diagrams

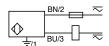
Connector (1)

1/2"-20UNF

(1) LED

Pre-cabled

2-wire  $\sim$  or =BU: Blue NO or NC output BN: Brown



±: on connector models only

#### Setup Minimum mounting distances (mm) Facing a metal object Sensors Side by side Face to face Ø 12 e≥8 e ≥ 50 e ≥ 12 Ø 18 e ≥ 16 e ≥ 100 e ≥ 25 Ø 30 e ≥ 30 e ≥ 180 e ≥ 45 **Dimensions (mm)** Sensors Pre-cabled (mm) Connector (mm) а а XS612B1M● Ø 12 53 42 62 42 Ø 18 XS618B1M● 62 52 73 52 b XS630B1M● 62 73 52 Ø 30 52

proximity sensors
General purpose
Cylindrical, increased range, non-flush mountable
Three-wire DC, solid-state output









Sensors	, 3-wire	12–4	8 V, long case mod	lel		
Ø 12, threa	ded M12 x	1				
Sensing distance Sn, mm (in.)	Function	Output	Connection	Catalog Number	Weigh kg	nt (lb)
7 (0.28)	NO	PNP	Pre-cabled (1)	XS612B4PAL2	0.075	(0.17)
			M12 connector	XS612B4PAM12	0.020	(0.04)
		NPN	Pre-cabled (1)	XS612B4NAL2	0.075	(0.17)
			M12 connector	XS612B4NAM12	0.020	(0.04)
	NC	PNP	Pre-cabled (1)	XS612B4PBL2	0.075	(0.17)
			M12 connector	XS612B4PBM12	0.020	(0.04)
		NPN	Pre-cabled (1)	XS612B4NBL2	0.075	(0.17)
			M12 connector	XS612B4NBM12	0.020	(0.04)

Ø 18, threa	ded M18 x	k 1				
Sensing distance Sn, mm (in.)	Function	Output	Connection	Catalog Number	Weig kg	ht (lb)
12 (0.47)	NO	PNP	Pre-cabled (1)	XS618B4PAL2	0.100	(0.22)
			M12 connector	XS618B4PAM12	0.040	(0.09)
		NPN	Pre-cabled (1)	XS618B4NAL2	0.100	(0.22)
			M12 connector	XS618B4NAM12	0.040	(0.09)
	NC	PNP	Pre-cabled (1)	XS618B4PBL2	0.100	(0.22)
			M12 connector	XS618B4PBM12	0.040	(0.09)
		NPN	Pre-cabled (1)	XS618B4NBL2	0.100	(0.22)
			M12 connector	XS618B4NBM12	0.040	(0.09)

Ø 30, threa	ided M30	x 1.5				
Sensing distance Sn, mm (in.)	Function	Output	Connection	Catalog Number	Weig kg	ht (lb)
22 (0.87)	NO	PNP	Pre-cabled (1)	XS630B4PAL2	0.205	(0.45)
			M12 connector	XS630B4PAM12	0.145	(0.32)
		NPN	Pre-cabled (1)	XS630B4NAL2	0.205	(0.45)
			M12 connector	XS630B4NAM12	0.145	(0.32)
	NC	PNP	Pre-cabled (1)	XS630B4PBL2	0.205	(0.45)
			M12 connector	XS630B4PBM12	0.145	(0.32)
		NPN	Pre-cabled (1)	XS630B4NBL2	0.205	(0.45)
			M12 connector	XS630B4NBM12	0.145	(0.32)

Accessories				
Description	For use with sensors	Catalog Number	Weig kg	ht (lb)
Mounting clamps	Ø 12	XSZB112	0.006	(0.01)
	Ø 18	XSZB118	0.010	(0.02)
	Ø 30	XSZB130	0.020	(0.04)

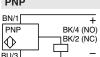
<sup>(1)</sup> For a 5 m cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS612B4PAL2 becomes XS612B4PAL5 with a 5 m cable.

### OsiSense® Inductive **proximity sensors**General purpose

Cylindrical, increased range, non-flush mountable Three-wire DC, solid-state output

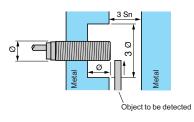
Sensor type			XS6eeB4eeM12	XS6eeB4eeL2
Product certifications			UL, CSA, C€	•
Connection	Connector		M12	-
	Pre-cabled		-	Length 2 m
Operating zone	Ø 12	mm	0-5.6 (0-0.22 in.)	
	Ø 18	mm	0-9.6 (0-0.38 in.)	
	Ø 30	mm	0–17.6 (0–0.69 in.)	
Differential travel		%	1–15 of effective sensing distance (Sr)	
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68, double insulation
Storage temperature		°C	-40 to +85 (-40 to +185 °F)	·
Operating temperature		°C	-25 to +70 (-13 to +158 °F)	
Materials	Case		Nickel plated brass	
	Sensing face		PPS	
	Cable		-	PvR 3 x 0.34 mm <sup>2</sup> (22 AWG)
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz	<u>'</u>
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms	
Output state indication			Yellow LED: 4 viewing ports at 90°	Yellow LED: circular
Rated supply voltage		V	== 12–48 with protection against reverse	polarity
Voltage limits (including ripp	ole)	V	<del></del> 10–58	
Switching capacity		mA	≤ 200 with overload and short-circuit pro	tection
Voltage drop, closed state		٧	≤2	
Current consumption, no-loa	ad	mA	≤ 10	
Maximum switching frequen	cy XS612B4••••	Hz	2500	
	XS618B4•••	Hz	1000	
	XS630B4•••	Hz	500	
Delays	First-up	ms	≤ 10	
	Response	ms	≤ 0.2 for Ø 12, ≤ 0.3 for Ø 18, ≤ 0.6 for Ø	30
	Recovery	ms	≤ 0.2 for Ø 12, ≤ 0.7 for Ø 18, ≤ 1.4 for Ø	30
Wiring diagrams				

BU: Blue BN: Brown BK: Black

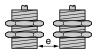


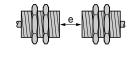
NPN TBK/4 (NO)  $\Diamond$ BK/2 (NC)

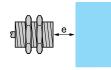
#### Setup



#### Minimum mounting distances (mm)





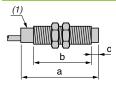


	Side by side	
Ø 12	e ≥ 48	
Ø 18	e ≥ 72	
030	2 > 120	

Face to face
e ≥ 84
e ≥ 144
e ≥ 264

Facing a metal object
e ≥ 21
e ≥ 36
- > 00

#### Dimensions (mm)



XS6 Ø 12 Ø 18 Ø 30

Pre-cab	Pre-cabled (mm)				
а	b				
55	42				
60	44				
63	41				

Connec	tor (mm)		
а	b	С	
66	42	5	
72	44	8	
74	41	13	
/4	41	13	

(1) LED

proximity sensors
General purpose
Cylindrical, increased range, non-flush mountable Two-wire AC or DC



Sensors,	2-wire <b>≂</b> 2	24–240 V, long case m	odel		
Ø 18, thread	ded M18 x 1				
Sensing distance Sn, mm (in.)	Function	Connection	Catalog Number	Weig kg	ht (lb)
12 (0.47)	NO	Pre-cabled (1)	XS618B4MAL2	0.120	(0.26)
		1/2"-20UNF connector	XS618B4MAU20	0.060	(0.13)
	NC	Pre-cabled (1)	XS618B4MBL2	0.120	(0.26)
		1/2"-20UNF connector	XS618B4MBU20	0.060	(0.13)



Sensing	Function	Connection	Catalog	Weig	ht
distance Sn, mm (in.)			Number	kg	(lb)
22 (0.87)	NO	Pre-cabled (1)	XS630B4MAL2	0.205	(0.45)
		1/2"-20UNF connector	XS630B4MAU20	0.145	(0.32)
	NC	Pre-cabled (1)	XS630B4MBL2	0.205	(0.45)
		1/2"-20UNF connector	XS630B4MBU20	0.145	(0.32)



Accessorie	s			
Description	For use with sensors	Catalog Number	Weigl kg	ht (lb)
Mounting clamps	Ø 18	XSZB118	0.010	(0.02)
	Ø 30	XSZB130	0.020	(0.04)

<sup>(1)</sup> For a 5 m cable replace L2 with L5; for a 10 m cable replace L2 with L10. Example: XS618B4MAL2 becomes XS618B4MAL5 with a 5 m cable.

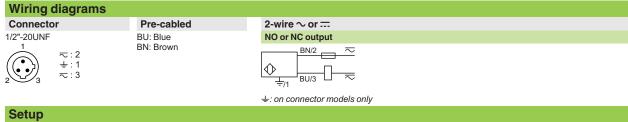
Specifications, wiring diagram, setup, dimensions

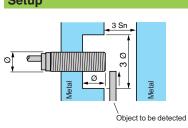
# OsiSense® Inductive proximity sensors General purpose

General purpose Cylindrical, increased range, non-flush mountable Two-wire AC or DC

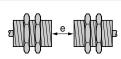
Sensor type			XS6eeB4MeU20	XS6eeB4MeL2	
Product certifications			UL, CSA, C€	1	
Connection	Connector		1/2"-20UNF	-	
	Pre-cabled		_	Length 2 m	
Operating zone	Ø 18	mm	0-9.6 (0-0.38 in.)		
	Ø 30	mm	0–17.6 (0–0.69 in.)		
Differential travel		%	1–15 of effective sensing distance (Sr)		
Degree of protection	Conforming to IEC 60529		IP 65 and IP 67	IP 65 and IP 68, double insulation	
Storage temperature		°C	-40 to +85 (-40 to +185 °F)		
Operating temperature		°C	-25 to +70 (-13 to +158 °F)		
Materials	Case		Nickel plated brass		
	Sensing face		PPS		
	Cable		_	PvR 2 x 0.34 mm <sup>2</sup> (22 AWG)	
Vibration resistance	Conforming to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)		
Shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms		
Output state indication			Yellow LED: 4 viewing ports at 90°	Yellow LED: circular	
Rated supply voltage		V	$\sim$ or == 24–240 ( $\sim$ 50/60 Hz)		
Voltage limits (including ripple)		V	~ or <del></del> 20−264		
Switching capacity		mA	~ 5–300 or == 5–200 (1)		
Voltage drop, closed sta	te	٧	≤ 5.5		
Residual current, open state		mA	≤0.8		
Maximum switching	XS618B4M•••	Hz	~ 25 or == 1000		
frequency	XS630B4Meee	Hz	~ 25 or == 300		
Delays	First-up	ms	≤ 30 XS618B4M●●● and XS630B4M●	••	
	Response	ms	≤ 0.5		
	Recovery	ms	≤ 0.5 XS618B4Meee, ≤ 2 XS630B4Meee		

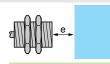
(1) A 0.4 A "fast-acting" fuse must be connected in series with the load.











Side by side				
Ø 18	e ≥ 72			
Ø 30	e ≥ 120			

Face to face

e ≥ 144

e ≥ 264

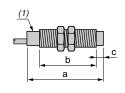
Facing a metal object

e ≥ 36

e ≥ 66

#### **Dimensions (mm)**

(1) LED



	Pre-cabled (mm)		
XS6	а	b	
Ø 18	60	44	
Ø 30	63	41	

Connec	ctor (mm)		
а	b	С	
72	44	8	
74	41	13	

 ${\bf Schneider\,Electric\,USA,Inc.}$ 

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
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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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: <u>org@eplast1.ru</u>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.