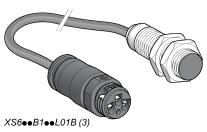
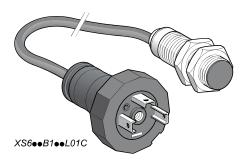
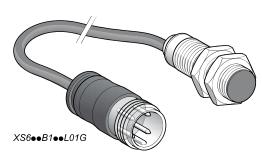
Inductive proximity sensors
OsiSense XS, general purpose
Cylindrical, increased range, flush mountable Two-wire AC or DC (1)

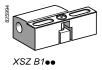












Sensing	Function	24-240 V, long case m Connection	Reference	Weight
distance (Sn) mm				kg
Ø 12, threa	ided M12 x 1			
4	NO	Pre-cabled (L = 2 m) (2)	XS6 12B1MAL2	0.075
		1/2"-20UNF connector	XS6 12B1MAU20	0.025
	NC	Pre-cabled (L = 2 m) (2)	XS6 12B1MBL2	0.075
		1/2"-20UNF connector	XS6 12B1MBU20	0.025
Ø 18, threa	ided M18 x 1			
8	NO	Pre-cabled (L = 2 m) (2)	XS6 18B1MAL2	0.100
		1/2"-20UNF connector	XS6 18B1MAU20	0.060
		Remote screw terminal connector	XS6 18B1MAL01B (3)	0.100
		Remote DIN 43650A connector	XS6 18B1MAL01C	0.100
		Remote M18 connector	XS6 18B1MAL01G	0.100
	NC	Pre-cabled (L = 2 m) (2)	XS6 18B1MBL2	0.100
		1/2"-20UNF connector	XS6 18B1MBU20	0.060
		Remote screw terminal connector	XS6 18B1MBL01B (3)	0.100
		Remote DIN 43650A connector	XS6 18B1MBL01C	0.100
		Remote M18 connector	XS6 18B1MBL01G	0.100
Ø 30, threa	ided M30 x 1.	5		
15	NO	Pre-cabled (L = 2 m) (2)	XS6 30B1MAL2	0.205
		1/2"-20UNF connector	XS6 30B1MAU20	0.145
		Remote screw terminal connector	XS6 30B1MAL01B (3)	0.205
		Remote DIN 43650A connector	XS6 30B1MAL01C	0.205
		Remote M18 connector	XS6 30B1MAL01G	0.205
	NC	Pre-cabled (L = 2 m) (2)	XS6 30B1MBL2	0.205
		1/2"-20UNF connector	XS6 30B1MBU20	0.145
		Remote screw terminal connector	XS6 30B1MBL01B (3)	0.205
		Remote DIN 43650A connector	XS6 30B1MBL01C	0.205
		Remote M18 connector	XS6 30B1MBL01G	0.205
Accessorie	es (4)			
Descriptio	n	For use with sensors	Reference	Weight kg
Fixing clam	ıps	Ø 12	XSZ B112	0.006
		Ø 18	XSZ B118	0.010

(1) Ø 8 plastic, double insulation, version available: see page 3/60.

Ø 30

(2) For a 5 m long cable replace L2 by L5; for a 10 m long cable replace L2 by L10. Example: XS6 12B1MAL2 becomes XS6 12B1MAL5 with a 5 m long cable.

XSZ B130

0.020

- (3) Protective cable gland included with sensor.
- (4) For further information, see page 3/112.

Characteristics, schemes, setting-up, dimensions

Inductive proximity sensors

OsiSense XS, general purpose Cylindrical, increased range, flush mountable Two-wire AC or DC

Sensor type			XS6eeB1MeU20	XS6eeB1MeLe	
Product certifications			UL, CSA, C€	•	
Connection	Connector		1/2"-20UNF –		
	Pre-cabled		-	Length 2 m	
	Remote connector		Remote screw terminal (L01B), DIN 43650A (L01C) and M18 (L01G) connectors on 0.15 m flying lead.		
Operating zone (1)	Ø 12	mm	03.2		
	Ø 18	mm	06.4		
	Ø 30	mm	012		
Differential travel		%	115 of effective sensing distance (Sr)		
Degree of protection	Conforming to IEC 60529		IP 65, IP 67	IP 65 and IP 68, double insulation 🗉	
	Conforming to DIN 40050		IP 69K		
Storage temperature		°C	-40+85		
Operating temperature		°C	-25+70		
Materials	Case		Nickel plated brass		
	Sensing face		PPS		
	Cable		PvR 2 x 0.34 mm ²		
/ibration 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: annular on pre-cabled version Yellow LED with 4 viewing ports at 90° on connector version		
Rated supply voltage		٧	≂ 24…240 (~ 50/60 Hz)		
Voltage limits (including ripple)		٧	≂ 20264		
Switching capacity	XS6 12B1M • • •	mΑ	5200 (2)		
	XS6 18B1M••• XS6 30B1M•••	mA	~ 5300 or 5200 <i>(2)</i>		
Voltage drop, closed state		٧	≤ 5.5		
Residual current, open state		mA	≤0.8		
Maximum switching frequency	Ø 12	Hz	 1000 / ∼ 25		
(DC/AC)	Ø 18	Hz	 1000 / ∼ 25		
	Ø 30	Hz	 500 / ∼ 25		
Delays	First-up	ms	≤ 25 for Ø 18 and Ø 30 sensors; ≤ 20 for Ø 1	2 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⁾ Detection curves, see page 3/116.

(2) It is essential to connect a 0.4 A "quick-blow" fuse in series with the load.

Wiring schemes

Connector (1) Pre-cabled 2-wire \sim or =1/2"-20UNF BU: Blue NO or NC output BN: Brown ±:1 ≂:3 See connection on page 9/45.

(1) For pin arrangement of remote connectors L01B, L01C and L01G, see page 3/29.

Setting-up

Minimum mounting distances (mm)



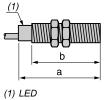


±: on connector models only



Sensors	Side by side	Face to face	Facing a metal object
Ø 12	e ≥ 8	e ≥ 50	e ≥ 12
Ø 18	e ≥ 16	e ≥ 100	 e ≥ 25
Ø 30	e > 30	<u>a > 180</u>	<u> </u>

Dimensions



Senso	ors
Ø 12	XS6 12B1M●
Ø 18	XS6 18B1M●
Ø 30	XS6 30B1M●

Pre-cabled (mm)		Connec	Connector (mm)	
а	b	а	b	
53	42	62	42	
62	52	73	52	
62	52	73	52	