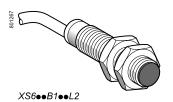
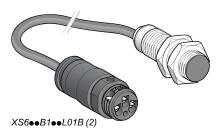
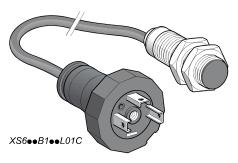
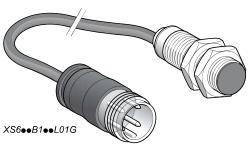
Inductive proximity sensors
OsiSense XS, general purpose
Cylindrical, increased range, flush mountable
Three-wire DC, solid-state output













			T 12-48 V, long case modest Connection	Reference	Weigh
					k
	readed M	3 x 1			
	NO	PNP	Pre-cabled (L = 2 m) (1)	XS6 08B1PAL2	0.03
Sensing distance Sn) mm 38, thre .5			M12 connector	XS6 08B1PAM12	0.0
		NPN	Pre-cabled (L = 2 m) (1)	XS6 08B1NAL2	0.0
			M12 connector	XS6 08B1NAM12	0.0
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS6 08B1PBL2	0.0
		NPN	M12 connector	XS6 08B1PBM12	0.0
		NPN	Pre-cabled (L = 2 m) (1) M12 connector	XS6 08B1NBL2 XS6 08B1NBM12	0.0
x 10 (throaded N	112 v 1	WITZ COTTIECTOR	A30 00D INDIVITZ	0.0
7 12, 1	NO	PNP	Pre-cabled (L = 2 m) (1)	XS6 12B1PAL2	0.0
	NO	1 181	M12 connector	XS6 12B1PAM12	0.0
		NPN	Pre-cabled (L = 2 m) (1)	XS6 12B1NAL2	0.0
			M12 connector	XS6 12B1NAM12	0.0
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS6 12B1PBL2	0.0
			M12 connector	XS6 12B1PBM12	0.0
		NPN	Pre-cabled (L = 2 m) (1)	XS6 12B1NBL2	0.0
			M12 connector	XS6 12B1NBM12	0.0
18 , 1	threaded N	118 x 1			
	NO	PNP	Pre-cabled (L = 2 m) (1)	XS6 18B1PAL2	0.1
			M12 connector	XS6 18B1PAM12	0.0
			Remote screw terminal connector	' '	0.1
			Remote DIN 43650 connector	XS6 18B1PAL01C	0.1
		NPN	Remote M18 connector Pre-cabled (L = 2 m) (1)	XS6 18B1PAL01G XS6 18B1NAL2	0.1
		INFIN	M12 connector	XS6 18B1NAM12	0.0
			Remote screw terminal connector		0.0
			Remote DIN 43650 connector	XS6 18B1NAL01C	0.1
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS6 18B1PBL2	0.1
			M12 connector	XS6 18B1PBM12	0.0
			Remote screw terminal connector	XS6 18B1PBL01B (2)	0.1
			Remote DIN 43650 connector	XS6 18B1PBL01C	0.1
		NPN	Pre-cabled (L = 2 m) <i>(1)</i>	XS6 18B1NBL2	0.1
			M12 connector	XS6 18B1NBM12	0.0
			Remote screw terminal connector	. ,	0.1
			Remote DIN 43650 connector	XS6 18B1NBL01C	0.1
	threaded N				
5	NO	PNP	Pre-cabled (L = 2 m) (1)	XS6 30B1PAL2	0.2
			M12 connector	XS6 30B1PAM12	0.1
			Remote screw terminal connector Remote DIN 43650 connector	XS6 30B1PAL01B (2)	0.2
Ø 30, th 5			Remote M18 connector	XS6 30B1PAL01G	0.2
		NPN	Pre-cabled (L = 2 m) (1)	XS6 30B1NAL2	0.2
			M12 connector	XS6 30B1NAM12	0.1
			Remote screw terminal connector		0.2
			Remote DIN 43650 connector	XS6 30B1NAL01C	0.2
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS6 30B1PBL2	0.2
			M12 connector	XS6 30B1PBM12	0.1
			Remote screw terminal connector	XS6 30B1PBL01B (2)	0.2
			Remote DIN 43650 connector	XS6 30B1PBL01C	0.2
			Remote M18 connector	XS6 30B1PBL01G	0.2
		NPN	Pre-cabled (L = 2 m) (1)	XS6 30B1NBL2	0.2
			M12 connector	XS6 30B1NBM12	0.1
			Remote screw terminal connector		0.2
	nacrice (2)		Remote DIN 43650 connector	XS6 30B1NBL01C	0.2
			a with concern	Deference	18/
escr	iption	For us	e with sensors	Reference	Weigl k
xina	clamps	Ø8		XSZ B108	0.0
		Ø 12		XSZ B112	0.0
		Ø 18		XSZ B118	0.0
				XSZ B130	

For a 5 m long cable replace L2 by **L5**; for a 10 m long cable replace L2 by **L10**. Example: XS6 08B1PAL2 becomes**XS6 08B1PAL5** with a 5 m long cable.

⁽²⁾ Protective cable gland included with sensor. (3) For further information, see page 3/112.

Characteristics, schemes, setting-up, dimensions

Inductive proximity sensors

OsiSense XS, 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€					
Connection	Connector		M8	M12	_			
	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 6.5 and Ø 8	mm	02					
	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 and IP 67 IP 65 and IP 68, 0 insulation □ except Ø 6.5 and					
	Conforming to DIN 40050		IP 69K for Ø 12, 18 and 30 sensors					
Storage temperature			-40+85					
Operating temperature			- 25+ 70					
Materials	Case		Nickel plated brass (except XS6 08: stainless steel, grade 303)					
	Sensing face		PPS					
	Cable		-		PvR 3 x 0.34 mm ² except Ø 6.5 and 8: 3 x 0.11 mm ²			
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 po	rts at 90°	Yellow LED, annular			
Rated supply voltage		٧	XS1: 1224 with protection against reverse polarity XS6: 1248 with protection against reverse polarity					
Voltage limits (including ripple)		٧	XS1 : == 1036; XS6 : == 1058					
Switching capacity		mΑ	≤ 200 with overload and short-circuit protection					
Voltage drop, closed state		٧	≤2					
Current consumption, no-load		mΑ	≤10					
Maximum switching frequency	Ø 6.5, Ø 8 and Ø 12	Hz	z 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, ≤ 0.3 for Ø 18, ≤ 0.6 for Ø 30					
	Recovery	ms	≤ 0.2 for Ø 6.5, Ø 8 and Ø 12, ≤ 0.7 for Ø 18, ≤ 1.4 for Ø 30					

(1) Detection curves, see page 3/116.

Wiring schemes (See connection on page 9/45)

Connector (1)



Pre-cabled

BU: Blue BN: Brown BK: Black

Setting-up

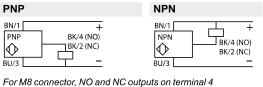
Minimum mounting distances (mm)







FINE	
BN/1	+
PNP	BK/4 (NO)
\triangle	BK/2 (NC)
BU/3	」
BO/3	



Sensors	Side by side	Face to face	Facing a metal object
Ø 6.5	e ≥ 5	e≥30	e ≥ 8
Ø 8	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

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

(1) LED

Dimensions

Sensors			Pre-ca	abled (mm)	М8 со	nnector (mm)	M12 connector (mm)	
Short ca	se model		а	b	а	b	а	b
	Ø 6.5	XS1 06B3	33	_	42	_	45	_
	Ø 8	XS1 08B3	33	25	42	26	45	24
	Ø 12	XS1 12B3	35	25	_	_	50	30
	Ø 18	XS1 18B3	39	28		_	50	28
	Ø 30	XS1 30B3	43	32		_	55	32

	Ø 30	XS1 30B3	43	32	_	_	55	32	
Sensors			Pre-cabled (mm)		M12 co	M12 connector (mm)			
Long case model		а	b	а	b				
	Ø 8	XS6 08B1	51	42	62	40			
	Ø 12	XS6 12B1	53	42	62	42			
	Ø 18	XS6 18B1	62	52	74	52			_
	Ø 30	XS6 30B1	62	52	74	52			_