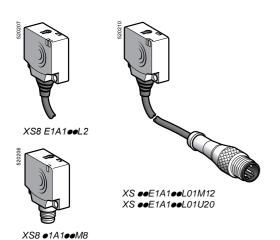
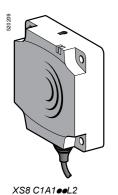
Inductive proximity sensors
Osiprox® Universal, Osiconcept® (1)
Flat, flush mountable and non flush mountable, forms E, C and D Two-wire, a.c. or d.c. supply

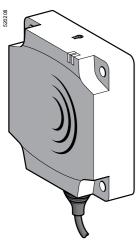
Three-wire, d.c. supply, solid-state output







XS8 C1A1 •• M8



XS8 D1A1 ooL2

(5) For clipping onto 35 mm omega rail or 80 x 80 x 40 mm format, add DIN to the end of the reference. Example: XS8 D1A1PAL2 DIN.

Sensing dist.			13 mm (2)	Reference	Weight
(Sn) mm	runction	Output	Connection	Reference	kg
Three-wire =	≕ with o	erload	I and short-circuit protect	ction	
5	NO	PNP	Pre-cabled (L = 2 m) (3)	XS8 E1A1PAL2	0.07
			M8 connector	XS8 E1A1PAM8	0.04
			Remote M12 connector	XS8 E1A1PAL01M12	
		NPN	Pre-cabled (L = 2 m) (3)	XS8 E1A1NAL2	0.07
			M8 connector	XS8 E1A1NAM8	0.04
			Remote M12 connector	XS8 E1A1NAL01M12	0.04
	NC	PNP	Pre-cabled (L = 2 m) (3)	XS8 E1A1PBL2	0.07
			M8 connector	XS8 E1A1PBM8	0.04
		NIDNI	Remote M12 connector	XS8 E1A1PBL01M12	
		NPN	Pre-cabled (L = 2 m) (3)	XS8 E1A1NBL2	0.07
			M8 connector	XS8 E1A1NBM8	0.04
-			Remote M12 connector	XS8 E1A1NBL01M12	0.04
Two-wire \sim		protec	. ,	V00 E444MALO	0.07
5	NO	_	Pre-cabled (L = 2 m) (3)	XS8 E1A1MAL2	0.07
	NC		Remote 1/2" - 20 UNF connect	XS8 E1A1MAL01U20 XS8 E1A1MBL2	0.04
	NC	_	Pre-cabled (L = 2 m) (3)		0.07
Flat fa	0 40 -	- 40	Remote 1/2" - 20 UNF connect	X58 ETATMBLUTUZU	0.04
			15 mm (2)		
Sensing dist. (Sn) mm	Function	Output	Connection	Reference	Weight kg
Three-wire 	 with ov	erload	I and short-circuit protect	ction	
:5	NO	PNP	Pre-cabled (L = 2 m) (3)	XS8 C1A1PAL2	0.09
			M8 connector	XS8 C1A1PAM8	0.06
			Remote M12 connector	XS8 C1A1PAL01M12	0.06
		NPN	Pre-cabled (L = 2 m) (3)	XS8 C1A1NAL2	0.09
			M8 connector	XS8 C1A1NAM8	0.06
			Remote M12 connector	XS8 C1A1NAL01M12	0.06
	NC	PNP	Pre-cabled (L = 2 m) (3)	XS8 C1A1PBL2	0.09
			M8 connector	XS8 C1A1PBM8	0.06
			Remote M12 connector	XS8 C1A1PBL01M12	0.06
		NPN	Pre-cabled (L = 2 m) (3)	XS8 C1A1NBL2	0.09
			M8 connector	XS8 C1A1NBM8	0.06
			Remote M12 connector	XS8 C1A1NBL01M12	0.06
Two-wire \sim	or ur	protec	cted (4)		
25	NO	_	Pre-cabled (L = 2 m) (3)	XS8 C1A1MAL2	0.09
			Remote 1/2" - 20 UNF connect		0.06
	NC	-	Pre-cabled (L = 2 m) (3)	XS8 C1A1MBL2	0.09
			Remote 1/2" - 20 UNF connec.	XS8 C1A1MBL01U20	0.06
			c 26 mm (2)		
Sensing dist. (Sn) mm	Function	Outpu t	Connection	Reference	Weight kg
Three-wire =	 with ov	erload	I and short-circuit protect	ction	
0	NO	PNP	Pre-cabled (L = 2 m) (3)	XS8 D1A1PAL2 (5)	0.34
			M12 connector	XS8 D1A1PAM12 (5)	0.30
		NPN	Pre-cabled (L = 2 m) (3)	XS8 D1A1NAL2 (5)	0.34
			M12 connector	XS8 D1A1NAM12 (5)	0.30
	NC	PNP	Pre-cabled (L = 2 m) (3)	XS8 D1A1PBL2 (5)	0.34
			M12 connector	XS8 D1A1PBM12 (5)	0.30
		NPN	Pre-cabled (L = 2 m) (3)	XS8 D1A1NBL2 (5)	0.34
			M12 connector	XS8 D1A1NBM12 (5)	0.30
Two-wire \sim	or un	protec	cted (4)		
60	NO	-	Pre-cabled (L = 2 m) (3)	XS8 D1A1MAL2 (5)	0.34
00				VOC D4 4 4 8 4 4 1 1 00 (F)	0.00
5 U			1/2" - 20 UNF connector	XS8 D1A1MAU20 (5)	0.30
5 0	NC	_	1/2" - 20 UNF connector Pre-cabled (L = 2 m) (3)	XS8 D1A1MAU20 (5)	0.30

⁽²⁾ For accessories, see page 37317/2.
(3) For a 5 m long cable, replace L2 with **L5**, and for a 10 m long cable, replace L2 with **L10**.

⁽⁴⁾ It is essential to connect a 0.4 A quick-blow fuse in series with the load.

Characteristics, schemes, setting-up, dimensions

Inductive proximity sensors

Osiprox[®] Universal, Osiconcept[®] (1) Flat, flush mountable and non flush mountable, forms E, C and D Two-wire, a.c. or d.c. supply Three-wire, d.c. supply, solid-state output

Characteristics									
Sensor types				XS8 EeeeeeM8, XS8 CeeeeeM8, XS8 DeeeeeM12, XS8 DeeeeeU20		XS8 E		XS8 EeeeeeL2 XS8 CeeeeeL2 XS8 DeeeeeL2	
Product certifications				UL, CSA, C€					
Connection Connector			M8 except XS8 ••••••M12: M12 XS8 ••••••U20: 1/2" 2	OUNF	0.15 m flying lead with remote XS8 •••••L01 M12: M12 XS8 •••••L01 U20: 1/2"	2,	-		
	Pre-cabled			-		_		Length: 2 m	
Sensing distance and	XS8 E	Nominal sensing dist. Sn	mm	015 non flush mounte	d configura	ation / 010 flush mounte	d config	uration	
adjustment zone	Fine adjustment zone		mm	515 non flush mounte	d configura	ation / 510 flush mounte	d configi	uration	
	XS8 C	Nominal sensing dist. Sn	mm	025 non flush mounte	d configura	ation / 015 flush mounte	d configi	uration	
		Fine adjustment zone	mm	825 non flush mounted configuration / 815 flush mounted configuration					
	XS8 D	Nominal sensing dist. Sn	mm	060 non flush mounted configuration / 040 flush mounted configuration					
	Fine adjustment zone		mm	2060 non flush mount	2060 non flush mounted configuration / 2040 flush mounted configuration				
Differential travel			%	115 of real sensing dis	115 of real sensing distance (Sr)				
Degree of protection	Conforn	ning to IEC 60529		IP 67 double insulation ☐ (except for M8 connector: IP 67) IP 68 ☐					
Storage temperature range	Storage temperature range			- 40+85					
Operating temperature rang	e		°C	- 25+70					
Materials	Case			PBT					
	Pre-cabled			PvR 3 x $0.34~\text{mm}^2 = \text{and PvR 2 x } 0.34~\text{mm}^2 = \infty$					
Vibration resistance	Conforn	ning to IEC 60068-2-6		25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)					
Shock resistance	Conforn	ning to IEC 60068-2-27		50 gn, duration 11 ms					
Indicator	Output state			Yellow LED					
	Supply of	on and teach mode		Green LED					
Rated	3-wire		٧	1224 with protection against reverse polarity					
supply voltage	2-wire		٧	\sim or == 24240 (\sim 50/60 Hz)					
Voltage limits	3-wire		٧	1036					
(including ripple)	2-wire		٧	\sim or $=$ 20264					
Current consumption, no-load	I 3-wire		mΑ	≤ 10					
Residual current, open state	e 2-wire		mΑ	≤ 1.5					
Switching capacity	3-wire		mA	≤ 100 XS8 E, ≤ 200 XS8 C and XS8 D, with overload and short-circuit protection					
	2-wire		mA	$5200 \approx$ XS8 E, $5300 \sim$ XS8 C and XS8 D, $5200 =$ XS8 C and XS8 D.					
Voltage drop, closed state	3-wire		٧	≤2					
2-wire			٧	≤ 5.5					
Maximum switching frequency			Hz	2000 XS8 E, 1000 XS8 C, 150 XS8 D					
Delays	First-up		ms	≤ 10 XS8 E, XS8 C and XS8 D (3-wire), ≤ 10 XS8 E and XS8 C, ≤ 15 XS8 D (2-wire)					
	Response		ms	≤ 0.3					
	Recove	Recovery		< 0.8 XS8 E and XS8 C, < 6 XS8 D					
Wiring scheme									
Connector	Pre	e-cabled	PNP	/M12 or M8	NPN/M	12 or M8 2-	wire 1	/2" - 20 UNF	

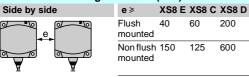
1/2" - 20 UNF

BU: Blue BN: Brown BK: Black

See connection on page 30210/3

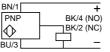
Setting-up

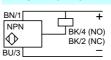
Minimum mounting distances (mm)

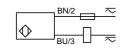


Face to face	e≽	XS8 E	XS8 C	XS8 D
e	Flush mounted	80	120	400
	Non flush mounted	300	250	not re- commen ded

Facing	a metal ob	e≽	XS8 E	E XS8 (C XS8	
				10	15	40
e_						



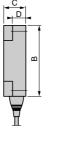


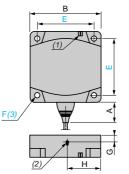


For M8 connector, NO and NC output on terminal 4.

Dimensions

XS8 C/D/E XS8 C/D







XS8 E

(1) LED		(2) Teach mode button					(3) For CHC type screws			
Sensor	A (cable)	A (connector)	В	С	D			G	Н	
XS8 E	14	11	26	13	8,8	20	3,5	6.8	6.6	
XS8 C	14	11	40	15	9,8	33	4,5	8.3	13.6	
XS8 D	23	14	80	26	16	65	5,5	8.5	37.8	