The Essential Guide to Sensor Selection

Telemecanique

Osiprox Inductive Proximity Sensors

	netal	siconcept [®]				
	Offer	ing simplicity through innovation ingle product that adapts all metal environments				
	Acc	urate position detection via	T		The second se	V
		ch mode.	Osi concept [®]	Osi concept [®]	Osi concept [®]	Osi concept [®]
			Type E (26 x 26)	Type C (40 x 40)	Type D (80 x 80)	Ø 12
Nominal Sensing Dist	al Sensing Distance Sn		15 mm	25 mm	60 mm	5 mm
Jsable sensing dist. S	ensing dist. S (mm) sheilded/non-sheilded		010 / 015	015/025	040 / 060	03.4 / 05
Precision adjustment	djustment range (mm) shielded/non-shielded metal		510 / 515	815 / 825	2040 / 2060	1.73.4 / 1.75
Nounting in metal				shielded or non-shielded v	via Osiconcept teach mode	
Enclosure M (metal) F	P (plastic)		Р	Р	Р	М
emperature range °F	= (°C)		- 13158 (- 2570)	- 13158 (- 2570)	- 13158 (- 2570)	- 13158 (- 2570)
Degree of protection ((conforming to I	EC 60 529)		pre-cabled: IP68 (w	vith connector: IP67)	
Sensors for D	C applica	itions <u></u> (3-wire)	•			
Connection: pre-	cabled PvR (2 m) 🕞				
Dimensions (mm) Ø x	x L or H x W x L	·	26 x 26 x 13	40 x 40 x 15	80 x 80 x 26	M12 x 54
. ,	PNP	NO	XS8E1A1PAL2	XS8C1A1PAL2	XS8D1A1PAL2	-
	PNP	NC	XS8E1A1PBL2	XS8C1A1PBL2	XS8D1A1PBL2	_
wire	NPN	NO	XS8E1A1NAL2	XS8C1A1NAL2	XS8D1A1NAL2	_
	NPN	NC	XS8E1A1NBL2	XS8C1A1NBL2	XS8D1A1NBL2	-
Connection: M8 c	or M12 conne	ector 🕺 🕺	p-C°compatible			
	PNP	NO	XS8E1A1PAM8	XS8C1A1PAM8	XS8D1A1PAM12	XS612B2PAL01M12 (2)
			VOODAADDMO	VOCOLATERIA	XS8D1A1PBM12	XS612B2PBL01M12 (2
	PNP	NC	XS8E1A1PBM8	XS8C1A1PBM8	X50DIAIPBMIZ	
3-wire	PNP NPN	NC NO	XS8E1A1PBM8 XS8E1A1NAM8	XS8C1A1PBM8 XS8C1A1NAM8	XS8D1A1PBM12 XS8D1A1NAM12	
3-wire						XS612B2NAL01M12 (2
	NPN NPN	NO NC	XS8E1A1NAM8	XS8C1A1NAM8	XS8D1A1NAM12	XS612B2NAL01M12 (2
Supply voltage limits r	NPN NPN min/max (V) inc	NO NC	XS8E1A1NAM8 XS8E1A1NBM8	XS8C1A1NAM8 XS8C1A1NBM8	XS8D1A1NAM12 XS8D1A1NBM12	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2)
Supply voltage limits r Switching capacity, m	NPN NPN min/max (V) inc nax (mA)	NO NC	XS8E1A1NAM8 XS8E1A1NBM8 1036	XS8C1A1NAM8 XS8C1A1NBM8 1036	XS8D1A1NAM12 XS8D1A1NBM12 1036	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2) 1036
Supply voltage limits r Switching capacity, m Short-circuit protection	NPN NPN min/max (V) inc nax (mA) on (♦)	NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100	XS8C1A1NAM8 XS8C1A1NBM8 1036 200	XS8D1A1NAM12 XS8D1A1NBM12 1036 200	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200
Supply voltage limits r Switching capacity, m Short-circuit protectio ED output state indic	NPN NPN min/max (V) inc nax (mA) on (♠) cation (♣) and p	NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ♦	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200
3-wire Supply voltage limits r Switching capacity, m Short-circuit protectio .ED output state indic /oltage drop, closed s Switching frequency (NPN min/max (V) inc nax (mA) on (◆) cation (♣) and postate (V) at I nor	NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ♠ ★/★	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ♦ X/★	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2) 1036 200 ♦ X/★
Supply voltage limits r Switching capacity, m Short-circuit protectio ED output state indi /oltage drop, closed s Switching frequency (NPN NPN min/max (V) inc nax (mA) on (◆) cation (�) and po state (V) at I non (Hz)	NO NC Iuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2) 1036 200 ♦ X/ ★ ≤ 2
Supply voltage limits r Switching capacity, m Short-circuit protection ED output state indic foltage drop, closed s Switching frequency (Sensors for A	NPN NPN min/max (V) inc max (mA) on (◆) cation (♣) and po state (V) at I nor (Hz) AC or DC at	NO NC Iuding ripple ower on LED (*) minal applications ~ / (2)	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ♦ X/★ ≤ 2
Supply voltage limits r Switching capacity, m Short-circuit protectio .ED output state indic /oltage drop, closed s Switching frequency (Sensors for A Connection: pre-co	NPN NPN min/max (V) inc max (mA) on (♦) cation (¥) and po state (V) at 1 non (Hz) AC or DC at cabled PvR (NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 -wire)	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/ ★ ≤ 2 100	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ♦ X/★ ≤ 2 1000
Supply voltage limits r Switching capacity, m Short-circuit protection .ED output state indic /oltage drop, closed s Switching frequency (Sensors for A Connection: pre- Dimensions (mm) Ø x	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¥) and p state (V) at I nor (Hz) AC or DC a cabled PvR (i x L or H x W x L	NO NC Iuding ripple ower on LED (*) minal pplications ~ / (2 2 m)	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • 26 x 26 x 13	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ♦ X/★ ≤ 2 1000
Supply voltage limits r Switching capacity, m Short-circuit protection ED output state indic foltage drop, closed s Switching frequency (Sensors for A Connection: pre-t Dimensions (mm) Ø x Lewirg AC/DC w	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¥) and p state (V) at I nor (Hz) AC or DC a cabled PvR (i x L or H x W x L	NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • 26 x 26 x 13 XS8E1A1MAL2	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1MAL2	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2) 1036 200 ♦ X/ ★ ≤ 2 1000
Supply voltage limits r Switching capacity, m Short-circuit protection ED output state indic foltage drop, closed s Switching frequency (Sensors for A Connection: pre-t Dimensions (mm) Ø x t-wire AC/DC w short-circ	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¾) and pi state (V) at I nor (Hz) AC or DC a cabled PvR (i x L or H x W x L without cut protection (1)	NO NC luding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • 26 x 26 x 13	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ♦ X/★ ≤ 2 1000
Supply voltage limits is Switching capacity, m Short-circuit protection ED output state indic Voltage drop, closed is Switching frequency (Sensors for A Connection: pre-co- Dimensions (mm) Ø x e-wire AC/DC w Short-circo Connection: 1/2"	NPN NPN min/max (V) inc max (mA) on (◆) cation (¾ and pistate (V) at 1 nor (Hz) AC or DC at cabled PvR (i x L or H x W x L without cut protection (1 20 UNF control	NO NC Iuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • 26 × 26 × 13 XS8E1A1MAL2 XS8E1A1MBL2	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MBL2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1NBL2 XS8D1A1MBL2	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ★ */ ★ ≤ 2 1000
Aupply voltage limits of witching capacity, mi short-circuit protection ED output state indic foltage drop, closed as witching frequency (Connection: pre- bimensions (mm) 0 x -wire AC/DC w wire AC/DC w	NPN NPN min/max (V) inc max (mA) on (◆) cation (¾ and pistate (V) at 1 nor (Hz) AC or DC at cabled PvR (i x L or H x W x L without cut protection (1 20 UNF control	NO NC Iuding ripple ower on LED (*) minal applications ~ / (2 2 m) Image: Comparison of the second	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 •wire) 26 × 26 × 13 XS8E1A1MAL2 XS8E1A1MBL2 XS8E1A1MAL01U20	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MBL2 XS8C1A1MAL2 XS8C1A1MAL2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1MAL2 XS8D1A1MBL2 XS8D1A1MAL2 XS8D1A1MAL2 XS8D1A1MAL2	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ★ X/ ★ ≤ 2 1000 - - - -
Supply voltage limits of switching capacity, m short-circuit protection ED output state indic foltage drop, closed a switching frequency (Sensors for A Connection: pre- Dimensions (mm) Ø x short-circ Connection: 1/2" -wire AC/DC w short-circ	NPN NPN min/max (V) inc nax (mA) on (●) cation (♠) and p state (V) at I nor (Hz) AC or DC at cabled PvR (' x L or H x W x L without cuit protection (1 20 UNF com without cuit protection (1	NO NC Isuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 •wire) 26 x 26 x 13 XS8E1A1MAL2 XS8E1A1MBL2 XS8E1A1MAL01U20 XS8E1A1MBL01U20	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MBL2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1NBL2 XS8D1A1MBL2	XS612B2NAL01M12 (2) XS612B2NBL01M12 (2) 1036 200 ◆ X/★ ≤ 2 1000 - - - - - - -
Supply voltage limits of Switching capacity, m Short-circuit protection (ED output state indic /oltage drop, closed s Switching frequency (Sensors for A Connection: pre- Dimensions (mm) Ø x e-wire AC/DC w short-circ Connection: 1/2" e-wire AC/DC w	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¥) and p state (V) at I nor (Hz) AC or DC at acabled PvR (x L or H x W x L without cuit protection (1 20 UNF conn without cuit protection (1	NO NC Isuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 •wire) 26 × 26 × 13 XS8E1A1MAL2 XS8E1A1MBL2 XS8E1A1MAL01U20	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MBL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 × 80 × 26 XS8D1A1MAL2 XS8D1A1MBL2 XS8D1A1MBL2 XS8D1A1MBL2 XS8D1A1MBL2	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ◆ X/★ ≤ 2 1000 - - - - - - - - - -
Supply voltage limits is switching capacity, m short-circuit protection ED output state indic foltage drop, closed s witching frequency (Sensors for A Connection: pre-co Dimensions (mm) Ø x -wire AC/DC w short-circ Connection: 1/2" -wire AC/DC w short-circ Supply voltage limits is witching capacity, m	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¥) and p state (V) at 1 nor (Hz) AC or DC a cabled PvR (x L or H x W x L without cuit protection (1 z0 UNF cont without cuit protection (1 min/max (V) inc max (mA)	NO NC Iuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 •wire) 26 x 26 x 13 XS8E1A1MAL2 XS8E1A1MAL2 XS8E1A1MAL2 XS8E1A1MAL01U20 XS8E1A1MBL01U20 20264	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL01U20 XS8C1A1MBL01U20 20264	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1MAL2 XS8D1A1MBL2 XS8D1A1MBL2 XS8D1A1MBL2 XS8D1A1MBU20 20264	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ★ */ ★ ≤ 2 1000 - - - - - - - -
Supply voltage limits in a witching capacity, michort-circuit protection ED output state indicition For a construction of the protection of the pro	NPN NPN min/max (V) inc nax (mA) on (●) cation (\$) and p state (V) at 1 nor (Hz) AC or DC a cabled PvR (x L or H x W x L vithout cuit protection (1 min/max (V) inc min/max (V) inc max (mA) cation (\$) and p	NO NC Iuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ★ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 •wire) 26 × 26 × 13 XS8E1A1MAL2 XS8E1A1MBL2 XS8E1A1MAL01U20 XS8E1A1MBL01U20 20264 200	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL01U20 XS8C1A1MBL01U20 20264 260	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 x 80 x 26 XS8D1A1MAL2 XS8D1A1MAL2 XS8D1A1MAL2 XS8D1A1MAU20 XS8D1A1MBU20 20264 260	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ★ X/★ ≤ 2 1000 - - - - - - - - - - - - -
Supply voltage limits of Switching capacity, m Short-circuit protection ED output state indic foltage drop, closed a Switching frequency (Sensors for A Connection: pre- Dimensions (mm) Ø x 2-wire AC/DC w Short-circ Connection: 1/2"	NPN NPN min/max (V) inc nax (mA) on (◆) cation (¥) and p state (V) at I nor (Hz) AC or DC a cabled PvR (x L or H x W x L without cuit protection (1 20 UNF conn without cuit protection (1 min/max (V) inc nax (mA) cation (¥) and p en state (mA)	NO NC Iuding ripple	XS8E1A1NAM8 XS8E1A1NBM8 1036 100 ◆ X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • X/★ ≤ 2 1000 • 26 × 26 × 13 XS8E1A1MAL2 XS8E1A1MAL2 XS8E1A1MBL2 XS8E1A1MAL01U20 XS8E1A1MBL01U20 20264 200 X/★	XS8C1A1NAM8 XS8C1A1NBM8 1036 200 ◆ X/★ ≤ 2 1000 40 x 40 x 15 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL2 XS8C1A1MAL01U20 XS8C1A1MBL01U20 20264 260 苯/★	XS8D1A1NAM12 XS8D1A1NBM12 1036 200 ◆ X/★ ≤ 2 100 80 × 80 × 26 XS8D1A1MAL2 XS8D1A1MAL2 XS8D1A1MBL2 XS8D1A1MBU20 20264 260 ★/★	XS612B2NAL01M12 (2 XS612B2NBL01M12 (2 1036 200 ★ X/ ★ ≤ 2 1000 - - - - - - - - - - - -

For flat sensors, forms E, C and D						Mounting bracket with indexing pin for cylindrical sensors		
			straight	90°	Adaptor plate for block type sensors XSE / XSC / XSD		M8	XSZB108
		Type E	XSZBE00	XSZBE90	XSZBE10		M12	XSZB112
		Type C	XSZBC00	XSZBC90	XSZBC10		M18	XSZB118
\checkmark		Type D	XSZBD00	-	XSZBD10	-	M30	XSZB130



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Osiconcept*	Osiconcept*				
Ø 18	Ø 30	Ø 8	Ø 12	Ø 18	Ø 30
10 mm	18 mm	2.5 mm	4 mm	8 mm	15 mm
07 / 010	012/018	02	03.2	06.4	012
3.5 7 / 3.510	612 / 618		_		_
	/ia Osi concept teach mode	shielded	shielded	shielded	shielded
М	M	M	M	M	M
- 13158 (- 2570)	- 13158 (- 2570)	- 13176 (- 2570)	- 13176 (- 2570)	- 13176 (- 2570)	- 13176 (- 2570)
	/ith connector: IP67)	- 10170 (- 2070)	pre-cabled: IP68 (w		- 10170 (- 2070)
pre-cabled. If 00 (W			pre-cabled. If 00 (w		
			r		1
M18 x 67	M30 x 71	M8 x 50	M12 x 50	M18 x 60	M30 x 60
-	-	XS608B1PAL2	XS612B1PAL2	XS618B1PAL2	XS630B1PAL2
-	-	XS608B1PBL2	XS612B1PBL2	XS618B1PBL2	XS630B1PBL2
-	-	XS608B1NAL2	XS612B1NAL2	XS618B1NAL2	XS630B1NAL2
-	-	XS608B1NBL2	XS612B1NBL2	XS618B1NBL2	XS630B1NBL2
XS618B2PAL01M12 (2)	XS630B2PAL01M12 (2)	XS608B1PAM12	XS612B1PAM12	XS618B1PAM12	XS630B1PAM12
XS618B2PBL01M12 (2)	XS630B2PBL01M12 (2)	XS608B1PBM12	XS612B1PBM12	XS618B1PBM12	XS630B1PBM12
XS618B2NAL01M12 (2)	XS630B2NAL01M12 (2)	XS608B1NAM12	XS612B1NAM12	XS618B1NAM12	XS630B1NAM12
XS618B2NBL01M12 (2)	XS630B2NBL01M12 (2)	XS608B1NBM12	XS612B1NBM12	XS618B1NBM12	XS630B1NBM12
1036	1036	1036	1036	1036	1036
200	200	100	200	300	300
♦	•	•	◆	◆	•
X / X	≭/★	≭/—	≭/—	≭/—	≭/-
≤2	≤2	≤ 2	≤ 2	≤2	≤2
1000	1000	2500	2500	1000	500
-	-	-	M12 x 50	M18 x 60	M30 x 60
-	_		XS612B1MAL2	XS618B1MAL2	XS630B1MAL2
-	_		XS612B1MBL2	XS618B1MBL2	XS630B1MBL2
_	-		XS612B1MAU20	XS618B1MAU20	XS630B1MAU20
_	_		XS612B1MBU20	XS618B1MBU20	XS630B1MBU20
_	_		20264	20264	20264
_	_		200	200	200
_			×/-	×/-	×/-
_	_		±/ ≤ 1.5	±, ≤ 1.5	±, ≤ 1.5
			≤ 5.5	≤ 1.5	≤ 1.5
			25 / 4000	25 / 3000	25 / 3000
-					

		Plug-in female connectors, including pre-wired versions					
For Osiconcept XS6 remote control							
		length 5 m w/o LED	elbowed	straight	Snap-C		
		M8	XSZCS112	XSZCS101	-		
	XSZBPM12	M12	XSZCD112Y	XSZCD102Y	XSCC12FDM40V		
		U20	XSZCA111Y	XSZCA101Y	-		

2/03