Telemecanique Sensors for Food & Beverage industry

The essential guide







Telemecanique Sensors Simply easy!™

Telemecanique brand has a 9 decades history manufacturing factory automation and safety sensors. Telemecanique wide ranges are most reliable and robust hence second to none on the market.

Our aim is to **simplify the life of our customers**, allowing them to concentrate on their core added value and machine performance. This is why Telemecanique Sensors design and manufacture their products based on the following values:

- Simplicity and modularity
- Easy to choose and select
- Easy to install and maintain
- Expert services to share our know-how

Connect with the experts



 A dedicated Sales team: trained and experienced sales professionals are available to help you with any sensing application.

Telemecanique Sensors team: are available for pre and post sales support. We become an extension of your team and we share our expertise with you.

www.tesensors.com

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OsiSense XS

Inductive proximity sensors Food & Beverage processing Cylindrical, full stainless steel 316L

certified



Non flush mountable Flush mountable







Туре		M12	M18	M30			
Nominal sensing distance Sn	Fush mountable	6 mm	10 mm	20 mm			
	Non flush mountable	10 mm	20 mm	40 mm			
Operating zone (mm)	Flush mountable	04.8	08	016			
	Non flush mountable	08	016	032			
Suitability for flush mounting (metal envi	ironment)	Flush mountable or non flush mountable depending on model					
Case material		Full stainless steel 316L from	nt face and housing in one piec	ce			
Product certification	Product certification		CE - cULus				
Temperature range (°C)		-25+85	-25+85				
Degree of protection (conforming to IEC	60529)	IP 68 (5 meters underwater	for 1 month) and IP 69K (confe	orming to DIN 40050)			

Sensors for DC applications (solid-state output: transistor)

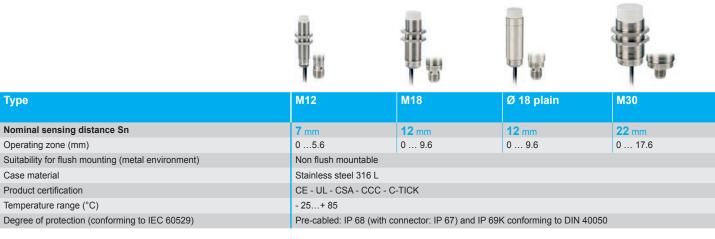
Connectio	on							
3-wire	PNP	NO function	Flush mountable	XS912S1PAM12	XS918S1PAM12	XS930S1PAM12		
			Non flush mountable	XS912S4PAM12	XS918S4PAM12	XS930S4PAM12		
Supply volt	tage limits, m	in./max. (V) includ	ding ripple	1030				
Switching of	capacity, max	. (mA)		≤ 200 with overload and short-circ	uit protection			
Switching f	frequency (Ha	z)	Fush mountable	600	300	100		
			Non flush mountable	400	200	90		
Short-circu	it protection	(★) / LED output s	tate indicator (⊗)	★/⊗				
Voltage drop, closed state (V) at I nominal		≤2						
Connection	n			M12 connector				

Pre-wired M12 c	onnectors				
Female, 5-pin, 4 wires,	, IP 69K stainless	steel clamping ring			
Straight connector	2 m cable	XZCPA1141L2			
	5 m cable	XZCPA1141L5			
	10 m cable	XZCPA1141L10			
Elbowed connector	2 m cable	XZCPA1241L2			
	5 m cable	XZCPA1241L5			
	10 m cable	XZCPA1241L10			



OsiSense XS

Inductive proximity sensors Food & Beverage processing Cylindrical, stainless steel 316L



Sensors for DC applications (solid-state output: transistor)

		Pre-cabled non noison	ous PVC (2 m)		
		· ·	. ,		
		M12 x 50	M18 x 60	Ø 18 x 60	M30 x 62
PNP	NO function	XS212SAPAL2	XS218SAPAL2	XS2L2SAPAL2	XS230SAPAL2
NPN	NO function	XS212SANAL2	XS218SANAL2	XS2L2SANAL2	XS230SANAL2
		M12 connector			
		M12 x 61	M18 x 70	Ø 18 x 70	M30 x 70
PNP	NO function	XS212SAPAM12	XS218SAPAM12	XS2L2SAPAM12	XS230SAPAM12
NPN	NO function	XS212SANAM12	XS218SANAM12	XS2L2SANAM12	XS230SANAM12
min./max. (V) includ	ling ripple	1058			
ax. (mA)		≤ 200			
Switching frequency (Hz)			1000		500
n (★) / LED output st	tate indicator (⊗)	★/⊗			
state (V) at I nomina	I	≤2			
	NPN PNP NPN min./max. (V) includ iax. (mA) (Hz) n (*) / LED output st	NPN NO function PNP NO function NPN NO function min./max. (V) including ripple max. (mA)	M12 x 50 PNP NO function XS212SAPAL2 NPN NO function XS212SAPAL2 M12 connector M12 connector M12 x 61 XS212SAPAM12 PNP NO function XS212SAPAM12 NPN NO function XS212SANAM12 Inin./max. (V) including ripple 1058 iax. (mA) ≤ 200 (Hz) 2500 n (*) / LED output state indicator (®) */ ®	NO function XS212SAPAL2 XS218SAPAL2 NPN NO function XS212SANAL2 XS218SANAL2 NPN NO function XS212SANAL2 XS218SANAL2 M12 connector M12 connector M18 x 70 PNP NO function XS212SAPAM12 XS218SAPAM12 NPN NO function XS212SANAM12 XS218SANAM12 NPN NO function XS212SANAM12 XS218SANAM12 MIN/max. (V) including ripple 1058 1058 M1/2 x 01 2500 1000 M1/2 x 01 XS00 1000	M12 x 50 M18 x 60 Ø 18 x 60 PNP NO function XS212SAPAL2 XS218SAPAL2 XS2L2SAPAL2 NPN NO function XS212SANAL2 XS218SANAL2 XS2L2SANAL2 M12 x 61 M18 x 70 Ø 18 x 70 Ø 18 x 70 PNP NO function XS212SAPAM12 XS218SAPAM12 XS2L2SAPAM12 PNP NO function XS212SAPAM12 XS218SAPAM12 XS2L2SAPAM12 NPN NO function XS212SAPAM12 XS218SAPAM12 XS2L2SAPAM12 NPN NO function XS212SAPAM12 XS218SAPAM12 XS2L2SAPAM12 In./max. (V) including ripple 1058 iax. (mA) < 2500 1000 (Hz) 2500 1000 in (*) / LED output state indicator (%) * / % * / %

Multi-current/multi-voltage sensors for AC/DC applications

		,				
Connection			Pre-cabled,	non poisonous PVC (2 m)		
Dimensions (mm)			-	M18 x 60	-	M30 x 62
2-wire (1)	AC/DC	NO function	-	XS218SAMAL2	-	XS230SAMAL2
Connection			1/2"- 20 UNF	connector		
Dimensions (mm)			-	M18 x 72	-	M30 x 74
2-wire (1)	AC/DC	NO function	-	XS218SAMAU20	-	XS230SAMAU20
Supply voltage lim	nits, min./max. (V) 5	0-60 HZ	-	20 264	-	20 264
Switching capacity	y, max. (mA)		-	300 AC / 200 DC	-	300 AC / 200 DC
Switching frequen	icy (Hz)		-	25 AC / 1000 DC	-	25 AC / 300 DC
LED output state i	indicator (⊗)		-	\otimes	-	8
Voltage drop, clos	ed state (V) at I nor	minal	-	≤ 5.5	-	≤ 5.5
Residual current,	open state (mA)		-	≤ 0.8	-	≤ 0.8

(1) For these sensors without short-circuit protection, it is essential to connect a 0.4 quick-blow fuse in series with the load.

Fixing brackets		M12 pre-wired co	onnectors		1/2" pre-wired connectors			
Plastic fixing cen	tres 24.1 mm, with locking screw	Female, 5-pin, 4 wires	Female, 5-pin, 4 wires, stainless steel clamping ring			Female, 3-pin, 3 wires, stainless steel clamping ring		
	for sensor Ø 18 plain XUZB2005	Straight connector	5 m cable	XZCPA1141L5	Straight connector	5 m cable	XZCPA1865L5	
Stainless steel	Ø 12 XSZBS12 Ø 18 XUZA118 Ø 30 XSZBS30	Elbowed connector	5 m cable	XZCPA1241L5	Elbowed connector	5 m cable	XZCPA1965L5	



OsiSense XS _

Inductive proximity sensors Food & Beverage processing Cylindrical, plastic





	•		•		
Туре	M12	M18	M30		
Nominal sensing distance Sn	7 mm	12 mm	22 mm		
Operating zone (mm)	05.6	0 9.6	0 17.6		
Suitability for flush mounting (metal environment)	Non flush mountable				
Case material	Plastic				
Product certification	CE - UL - CSA - CCC - C-TICK				
Temperature range (°C)	- 25+ 85				
Degree of protection (conforming to IEC 60529)	Pre-cabled: IP 68 (with connector:	IP 67) and IP 69K conforming to DIN	I 40050		

Sensors for DC applications (solid-state output: transistor)

Connection			Pre-cabled PvR (2 m)				
Dimensions (mm)			M12 x 50	M18 x 60	M30 x 62		
3-wire	PNP	NO function	XS212AAPAL2	XS218AAPAL2	XS230AAPAL2		
	NPN	NO function	XS212AANAL2	XS218AANAL2	XS230AANAL2		
Connection			M12 connector		XS230AAPAL2 XS230AANAL2 M30 x 70 XS230AAPAM12 XS230AANAM12		
Dimensions (mm)			M12 x 61	M18 x 70	M30 x 70		
3-wire	PNP	NO function	XS212AAPAM12	XS218AAPAM12	XS230AAPAM12		
	NPN	NO function	XS212AANAM12	XS218AANAM12	XS230AANAM12		
Supply voltage limits	, min./max. (V) includ	ing ripple	1058				
Switching capacity, n	nax. (mA)		≤ 200				
Switching frequency	(Hz)		2500	1000	500		
Short-circuit protection	on (★) / LED output st	ate indicator (⊗)	★/⊗				
Voltage drop, closed	state (V) at I nominal		≤2				

Multi-current/multi-voltage sensors for AC/DC applications

Connection			Pre-cabled PvR (2	m)	
Dimensions (mm)		-	M18 x 60	M30 x 60
2-wire (1)	AC/DC	NO function	-	XS218AAMAL2	XS230AAMAL2
Connection			1/2"-20 UNF conne	ctor	
Dimensions (mm))		-	M18 x 70	M30 x 74
2-wire (1)	AC/DC	NO function	-	XS218AAMAU20	XS230AAMAU20
Supply voltage lin	nits, min./max. (V) 5	0-60 HZ	-	20 264	20 264
Switching capacit	ty, max. (mA)		-	300 AC / 200 DC	300 AC / 200 DC
Switching frequer	ncy (Hz)		-	25 AC / 1000 DC	25 AC / 300 DC
LED output state	indicator (⊗)		-	\otimes	8
Voltage drop, clos	sed state (V) at I nor	minal	-	≤ 5.5	≤ 5.5
Residual current,	open state (mA)		-	≤ 0.8	≤ 0.8

(1) For these sensors without short-circuit protection, it is essential to connect a 0.4 quick-blow fuse in series with the load.

Fixing brackets			M12 pre-wired connector			1/2" pre-wired connector Female, 3-pin, 3 wires, stainless steel clamping ring		
Stainless steel	for sensor		Female, 5-pin, 4 wires, stainless steel clamping ring					
and the second sec	Ø 12	XSZBS12	Straight connector	5 m	XZCPA1141L5	Straight connector	5 m	XZCPA1865L5
	Ø 18 Ø 30	XUZA118 XSZBS30						
			Elbowed connector	5 m	XZCPA1241L5	Elbowed connector	5 m	XZCPA1965L5
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			Л			Ħ		

OsiSense XS

Inductive proximity sensors Cylindrical, plastic

		Non flush mountable Flush mountable		† .	1.	.	PERALATI			
				M8	M12	M18	M30			
Nominal	sensing dist	ance Sn		2.5 mm	4 mm	8 mm	15 mm			
	g zone (mm)			02	03.2	06.4	012			
Suitabilit	y for flush mou	nting (metal enviro	nment)	Non flush mountable		I				
Case ma	iterial	0.	,	Plastic						
Tempera	ture range (°C)		- 25+ 70						
Product	certification			CE - UL - CSA - CCC - C	TICK		7)			
Degree of	of protection (c	onforming to IEC 6	0529)	IP 67	pre-cabled: IP 68 (with connector: IP 67)					
Senso	rs for DC	applications	3							
Connect		apprioation	,	Pre-cabled, PvR (2 m)						
	ons (mm) Ø x l	or W x H x D		M8 x 33	M12 x 33	M18 x 33.5 M30 x 40.5				
3-wire	PNP	NO function		XS4P08PA340	XS4P12PA340	XS4P18PA340	XS4P30PA340			
		NC function		XS4P08PB340	XS4P12PB340	XS4P18PB340	XS4P30PB340			
	NPN	NO function		XS4P08NA340	XS4P12NA340	XS4P18NA340	XS4P30NA340			
		NC function		XS4P08NB340	XS4P12NB340	XS4P18NB340	XS4P30NB340			
Connect	ion			M8 connector	M12 connector	1				
Dimensio	ons (mm) Ø x l	or W x H x D		M8 x 42	M12 x 48	M18 x 48	M30 x 50			
3-wire	PNP	NO function		XS4P08PA340S	XS4P12PA340D	XS4P18PA340D	XS4P30PA340D			
		NC function		XS4P08PB340S	XS4P12PB340D	XS4P18PB340D	XS4P30PB340D			
	NPN	NO function		XS4P08NA340S	XS4P12NA340D	XS4P18NA340D	XS4P30NA340D			
		NC function		XS4P08NB340S	XS4P12NB340D	XS4P18NB340D	-			
Supply v	Supply voltage limits, min./max. (V) including ripple			1038						
Switching	Switching capacity, max. (mA)			200						
Short-cir	cuit protect. (7) / LED output sta	te indicator (⊗)	★/⊗						

Multi-current/multi-voltage sensors for AC/DC applications

Voltage drop, closed state (V) at I nominal

Switching frequency (Hz)

	0							
Connection			Pre-cabled, PvR (2 r	Pre-cabled, PvR (2 m)				
Dimensions (mm)	Ø x L or W x D x H		M8 x 50	M12 x 50	M18 x 60	M30 x 60		
2-wire	AC/DC	NO function	XS4P08MA230	XS4P12MA230	XS4P18MA230	XS4P30MA230		
not short-circuit prote	ected (1)	NC function	XS4P08MB230	XS4P12MB230	XS4P18MB230	XS4P30MB230		
Connection			1/2" connector	1/2" connector				
Dimensions (mm) Ø x L or W x H x D		M8 x 61	M12 x 61	M18 x 70	M30 x 70			
2-wire	AC/DC	NO function	XS4P08MA230K	XS4P12MA230K	XS4P18MA230K	XS4P30MA230K		
not short-circuit protect	cted (1)	NC function	XS4P08MB230K	XS4P12MB230K	XS4P18MB230K	XS4P30MB230K		
Supply voltage lim	nits, min./max. (V) inc	cluding ripple	20264					
Switching capacity	y, max. (mA)		100	200	300 AC / 200 DC	300 AC / 200 DC		
LED output state in	ndicator (⊗)		8	⊗				
Residual current, open state (mA)		≤ 0.6	≤ 0.6					
Voltage drop, closed state (V) at I nominal			≤ 5.5	≤ 5.5				
Switching frequen	cy (Hz)		25 AC / 3000 DC		25 AC / 2000 DC	25 AC / 1000 DC		

≤2 5000

(1) For these sensors without short-circuit protection, it is essential to connect a 0.4 A quick-blow fuse in series with the load.

Fixing for cylindrical sensors	;		M8 and M12 pre-wired	l connectors			
Fixing clamp with indexing pin for cylindrical sensors	M8	XSZB108	M8 female, 3-pin, 3 wires, stainless steel clamping ring			-	
	M12	XSZB112	Straight connector	M8	XZCPA0566L5		\sim
	M18	XSZB118	M12 female, 5-pin, 4 wires, stainless steel clamping ring		ring		
			Elbowed connector	M12	XZCPA1141L5		
				M12	XZCPA1241L5		Ų
						-	וו
			1/2" pre-wired connec	tors			
			Female, 3-pin, 3 wires, stain	less steel clamping ring		7400	
			Straight connector	5 m	XZCPA1865L5		190
			Elbowed connector	5 m	XZCPA1965L5	-	H



Other versions: please consult our Customer Care Centre.

2000

1000

 $\stackrel{\checkmark}{=}$

OsiSense XU

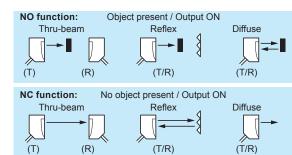


Photo-electric sensors Food & Beverage processing Cylindrical, plastic

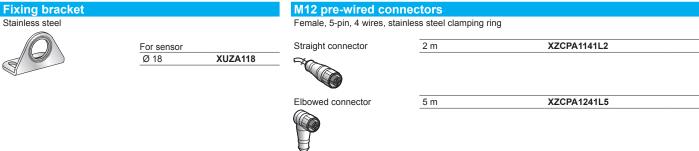




System			Plastic				
			Cable	M12 connector			
Diffuse	Sensing distanc	e	0.15 m				
	DC 3 wire NO	PNP	XUB4APANL2	XUB4AP ANM12			
		NPN	XUB4ANANL2	XUB4AN ANM12			
Diffuse adjustable	Sensing distanc	e	0.6 m				
	DC 3 wire NO	PNP	XUB5APANL2	XUB5AP ANM12			
		NPN	XUB5ANANL2	XUB5AN ANM12			
Reflex polarised	Sensing distanc	e	2 m (1)				
	DC 3 wire NO	PNP	XUB9APANL2	XUB9AP ANM12			
		NPN	XUB9ANANL2	XUB9ANANM12			
Reflex	Sensing distance		4 m (1)	4 m (1)			
	DC 3 wire NO	PNP	XUB1APANL2	XUB1AP ANM12			
		NPN	XUB1ANANL2	XUB1ANANM12			
Thru-beam	Sensing distanc	e	15 m				
	DC 3 wire NO	PNP	XUB2AP ANL2R	XUB2AP ANM12R			
		NPN	XUB2ANANL2R	XUB2AN ANML2R			
Output function	NO		A	A			
	NC		В	В			
Thru-beam transmi	itter	DC	XUB2AKSNL2T	XUB2AKSNM12T			
Case material			Plastic				
Degree of protection	Degree of protection (conforming to IEC 60529)		IP 65 / IP 67	IP 65 / IP 67 / IP 69K			
Temperature range (°C)		- 25+ 55 °C	- 25+ 55 °C				
Product certification	Product certification		CE, UL, CSA	CE, UL, CSA			
Supply voltage limits	s, min./max. (V) inclu	uding ripple	1036				
Switching capacity, r	max. (mA) / Switchin	ng frequency (Hz)	100/500				
(1) With reflector XI	IZCED to be ordered	aanaratalu					

(1) With reflector XUZC50 to be ordered separately.

System			Plastic				
			Cable	M12 connector			
Multimode	Sensing distance	Background suppression	0.12 m				
		Diffuse	0.3 m 3 m				
		Reflex polarised					
		Thru-beam	20 m				
Output type	DC 3 wire NO/NC	PNP	XUB0APSNL2	XUB0APSNM12			
	programmable	NPN	XUB0ANSNL2	XUB0ANSNM12			
Thru-beam transm	nitter		XUB0AKSNL2T	XUB0AKSNM12T			
Case material			Plastic				
Degree of protection	n (conforming to IEC 605	29)	IP 65 / IP 67	IP 65 / IP 67 / IP 69K			
Temperature range	e (°C)		- 25+ 55 °C				
Product certification		CE, UL, CSA					
Supply voltage limit	its, min./max. (V) includi	ng ripple	1036				
Switching capacity	, max. (mA) / Switching	frequency (Hz)	100/250				



OsiSense XU

Photo-electric sensors Food & Beverage processing Cylindrical, stainless steel





System			M18 Metal		M18 Metal with 90	° head	
			Cable	M12 connector	Cable	M12 connector	
Diffuse	Sensing distance		0.1 m				
Output type	DC 3 wire NO/NC	PNP	XU5N18PP341	XU5N18PP341D	XU5N18PP341W	XU5N18PP341WD	
	programmable	NPN	XU5N18NP341	XU5N18NP341D	XU5N18NP341W	XU5N18NP341WD	
Reflex polarised	Sensing distance		2 m (1)				
Output type	DC 3 wire NO/NC	PNP	XU9N18PP341	XU9N18PP341D	XU9N18PP341W	XU9N18PP341WD	
	programmable	NPN	XU9N18NP341	XU9N18NP341D	XU9N18NP341W	XU9N18NP341WD	
Reflex	Sensing distance		4 m (1)				
Output type	DC 3 wire NO/NC	PNP	XU1N18PP341	XU1N18PP341D	XU1N18PP341W	XU1N18PP341WD	
	programmable	NPN	XU1N18NP341	XU1N18NP341D	XU1N18NP341W	XU1N18NP341WD	
Thru-beam	Sensing distance		15 m (2)				
Output type	DC 3 wire NO/NC	PNP	XU2N18PP341	XU2N18PP341D	XU2N18PP341W	XU2N18PP341WD	
	programmable	NPN	XU2N18NP341	XU2N18NP341D	XU2N18NP341W	XU2N18NP341WD	
Case material			Stainless steel 304				
Degree of protection (c	conforming to IEC 60529)		IP 67		IP 67		
Temperature range (°C	C)		- 25+ 55 °C	- 25+ 55 °C			
Product certification			CE, UL, CSA				
Supply voltage limits,	min./max. (V) including rip	ple	1030				
Switching capacity, m	ax. (mA) / Switching freque	ency (Hz)	100/500				

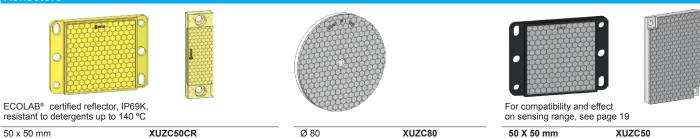
(1) With reflector XUZC50 included. (2) Transmitter and receiver included.

XUZCR0402CR

System			M18 Metal		M18 Metal with 90° head	
			Cable	M12 connector	Cable	M12 connector
Multimode	Sensing distance	Diffuse	0.12 m 0.3 m 3 m 20 m		0.11 m 0.3 m 2 m 10 m	
		Diffuse adjustable				
		Reflex polarised				
		Thru-beam				
Output type	DC 3 wire NO/NC	PNP	XUB0SPSNL2	XUB0SPSNM12	XUB0SPSNWL2	XUB0SPSNWM12
	programmable	NPN	XUB0SNSNL2	XUB0SNSNM12	XUB0SNSNWL2	XUB0SNSNWM12
Thru-beam transm	itter		XUB0SKSNL2T	XUB0SKSNL12T	XUB0SKSNWL2T	XUB0SKSNWL12T
Case material			Stainless steel 304			
Degree of protection	(conforming to IEC 60529)		IP 65 / IP 67	IP 65 / IP 67 / IP 69K	IP 65 / IP 67	IP 65 / IP 67 / IP 69K
Temperature range (°C)		- 25+ 55 °C			
Product certification			CE, UL, CSA			
Supply voltage limits, min./max. (V) including ripple			1036			
Switching capacity,	max. (mA) / Switching freque	ncy (Hz)	100/250			



40 x 18 mm



 40 X 60 mm
 XUZC60S11

 Other versions: please consult our Customer Care Centre.
 7



OsiSense XUB

Photo-electric sensors For detection of transparency materials Cylindrical, stainless steel and plastic







M18, along case axis

M18, 90° to case axis

		with, along case axis		WT0, 30 10 Case axis	
Sensor type		M18 Metal		M18 Metal with 90° head	
		Cable	M12 connector	Cable	M12 connector
Sensing distance with XUZC50HP reflector 50x50 mm (1)		1,40 m		0,80 m	
Case material		Stainless steel 304			
Temperature range (°C)		0+ 55			
Degree of protection (conforming to IEC 60529)		IP 65 / IP 67	IP 65 / IP 67 / IP 69K (IP 69K conforming to DIN 40050)	IP 65 / IP 67	IP 65 / IP 67 / IP 69K (IP 69K conforming to DIN 40050)
Product certification	1	CE, UL, CSA			
References PNP (NO or NC function - programmable)		XUBTSPSNL2	XUBTSPSNM12	XUBTSPSWL2	XUBTSPSWM12
	NPN (NO or NC function - programmable)	XUBTSNSNL2	XUBTSNSNM12	XUBTSNSWL2	XUBTSNSWM12
Supply voltage limit	ts, min./max. (V) including ripple	1032			

Maximum switching frequency (Hz) / Switching capacity, max. (mA) 1000 / 100 with overload and short-circuit protection (1) reflector XUZC50HP supplied

Sensor type		M18 Plastic	M18 Plastic		
		Cable	M12 connector		
Sensing distance wi	th XUZC50HP reflector 50x50 mm (1)	1,40 m			
Fixing		M18 x 1			
Material	Case	Plastic PBT			
	Lens	PMMA			
Temperature range (°	C)	0+ 55			
Degree of protection (conforming to IEC 60529)	IP 65 / IP 67	IP 65 / IP 67 / IP 69K (IP 69K conforming to DIN 40050)		
Product certification		CE, UL, CSA, C-Tick			
References	PNP (NO function)	XUBTAPSNL2	XUBTAPSNM12		
	NPN (NO function)	XUBTANSNL2	XUBTANSNM12		
Supply voltage limits,	min./max. (V) including ripple	1032			

Maximum switching frequency (Hz) / Switching capacity, max. (mA) 500 / 100 with overload and short-circuit protection / LED output state (1) reflector XUZC50HP supplied

Accessories

M12 pre-wired connectors

IP69K, female, 5-pin, 4 wires, stainless steel clamping ring

Fixing bracket Stainless steel



Straight	
2 m	XZCPA1141L2
5 m	XZCPA1141L5
10 m	XZCPA1141L10





For sensor	
Ø 18	XUZA118

Reflectors

High precision reflector For compatibility and effect on sensing range, see page 19



Dimensions	
50 x 50 mm	XUZC50HP
20 x 32 mm	XUZCR0201CRHP
40 x 19 mm	XUZCR0401CRHP



OsiSense XUK

Photo-electric sensors Food & Beverage processing Compact stainless steel case 316L and plastic









Application

Stainless steel version for resistance to harsh agents

System	Background	Polarised reflex	Thru-beam		
	suppression				
Sensing distance	0.030.55 m	0.46 m (1)	015 m		
Fixing (mm)	2 x Ø 4.3 holes				
Case material	Stainless steel 316L				
Temperature range (°C)	-20 +60 °C (100 °C for cleaning and sterilization phase whilst not in service)				
Degree of protection (conforming to IEC 60529)	IP 67 (IP69K conforming to DIN	40050)			
Product certification	CE, Ecolab				
Dimensions (mm) H x W x D	50 x 50 X 23				
Type of transmission	Read beam				
Sensitivity adjustment	Teach mode				

Sensors for DC applications (solid-state output: transistor)

	• •			
Connection		M12 connector - 4 pin		
Output type	DC 4 wire NO/NC PNP	XUK8SPSMM12	XUK9SPSMM12	XUK2SKSMM12T (transmitter)
	programmable			XUK2SPSMM12R (receiver)
Supply voltage limits	, min./max. (V) including ripple	1030		
Switching capacity, max. (mA) / Switching frequency (Hz)		100 / 400	100 / 600	100 / 500
(1) With reflector XU2	C50 to be ordered separately.			











Compact 50x50mm

Application

System	Back ground suppression	Diffuse	Polarised reflex	Thru-beam		
Sensing distance	0.8 m	1.2 m	12 m (2)	25 m		
Fixing (mm)	2 x Ø 4.3 holes / fixing	2 x Ø 4.3 holes / fixing centres 30				
Case material	Plastic	Plastic				
Setting-up assistance LEDs ⊗	8					
Temperature range (°C) /	-20+60 °C					
Degree of protection (conforming to IEC 60529)	IP67 (IP69K conform	ning to DIN 40050)				
Product certification	CE, Ecolab					
Dimensions (mm) H x W x D	50 x 50 X 23	50 x 50 X 23				
Sensitivity adjustment	Potentiometer	Teach mode				

Sensors for DC applications (solid-state output: transistor)

Connection		M12 connector - 4 pin			
Output type	DC 4 wire NO/NC PNP	XUK8LAPPNM12 (3)	XUK5LAPSMM12 (3)	XUK9LAPSMM12 (3)	XUK2LAKSMM12T (3) (4)
	programmable				XUK2LAPSMM12R (3) (5)
Supply voltage limit	s, min./max. (V) including ripple	1230			
Switching capacity,	max. (mA) / Switching frequency (Hz)	100 / ≤ 1000	100 / ≤ 600	100 / ≤ 2000	100 / ≤ 3500
Overload and short-	circuit protection (\star) / LED output state indicator (\otimes)	★/⊗			
(2) With reflector XU	ZC50HP to be ordered separately.				
(3) Fixing bracket: X	UZA51S to be ordered separately.				
(4) Transmitter					

(5) Receiver



OsiSense XX

Ultrasonic sensors Detection of any material Cylindrical and compact, plastic



Temperature range (°C)	-20+65	0+50 (XX518A1) / -20+65 (XX•18A3)	-20+65	0+50		
Degree of protection (conforming to IEC 60529)	IP 67	IP 67				
Dimensions (mm) Ø x L	M12 x 50	M18 x 65	33 x 19 x 7.6	74 x 30 x 16		
Supply voltage limits, min./max. (V) including ripple	1028					
Short-circuit protection (*)	*					

Proximity or Reflex mode with "Discrete" output for DC applications (24 V)

Connection			M8 connector	M12 connector	M12 on 0.15 m flying lead	M12 connector	
Proximity mode	PNP	NO function	XX512A2PAM8 (10 cm)	XX518A3PAM12 (50 cm)	XX7F1A2PAL01M12	XX7K1A2PAM12	
3-wire	NPN	NO function	XX512A2NAM8 (10 cm)	XX518A3NAM12 (50 cm)	XX7F1A2NAL01M12	XX7K1A2NAM12	
Proximity mode	PNP/NPN	NO + NC function	XX512A1KAM8 (5 cm)	XX518A1KAM12 (15 cm)	-	-	
4-wire	PNP	NO + NC function	-	-	-	-	
	NPN	NO + NC function	-	-	-	-	
Reflex mode 3-wire	PNP/NPN	NO function	-	XXB18A3PAM12 (50 cm)	-	-	

Proximity - Application - monotoring levels

, , ,		0					
	2 emptying levels	PNP NO function	-	XX218A3PHM12 (50 cm) (4)			
	2 filling levels	PNP NO function	-	XX218A3PFM12 (50 cm) (4)			
Switching capacity, max. (mA)			<100				
LED output state ind	LED output state indicator (\otimes) / Power on LED (\otimes)		\otimes / \otimes	\otimes / \otimes (5)	\otimes / \otimes		
Voltage drop, closed	Voltage drop, closed state (V) at I nominal		<1				
Switching frequency	(Hz)		125	40 / 80 (6)	100	80	
(1) Depending on model (2) For VVE19A2 (2) For VVE19			1 VYT18 VYD18 (4) 1 N	(5) Excopt XX518A1 (6) E	or XX518A1		

(1) Depending on model. (2) For XX518A3. (3) For XX518A1, XXT18, XXR18. (4) 1 NO. (5) Except XX518A1 (6) For XX518A1.

Proximity mode with "Analogue" output for DC applications $_{(24\,\text{V})}$

Connection			M8 connector	M12			
4-wire	Analogue	010 mA output	-	XX918A3F1M12 (50 cm)	-	-	
		420 mA output	-	XX918A3C2M12 (50 cm)	-	-	
LED output state indicator ((2) / Power on LED ((2))			-	\otimes / \otimes			

Thru-beam mode with "Discrete" output for DC applications (24 V)

Connection		M8 connector	M12 connector			
4-wire	Receiver (NO/PNP + NO/NPN)	XXR12A8KAM8	XXR18A3KAM12 (0.61 m) XXR18A4KAM12 (1 m)	XXRF1A8KAM12L	XXRK1A3KAM12 (0,61m) XXRK1A4KAM12 (1m)	
	Receiver (NC/PNP + NC/NPN)		XXR18A3KBM12 (0.61 m) XXR18A4KBM12 (1 m)	XXRF1A8KBM12L	XXRK1A3KBM12 (0,61m) XXRK1A4KBM12 (1m)	
	Transmitter	XXT12A8M8	XXT18A3M12 (0.61 m) XXT18A4M12 (1 m)	XXTF1A8M12L	XXTK1A3M12 (0,61m) XXTK1A4M12 (1m)	
Temperature range	e (°C)	0+60		-20+65		
Switching capacity,	, max. (mA)	<100	<100			
LED output state indicator (\otimes) / Power on LED (\otimes)		\otimes / \otimes	-/-	\otimes / \otimes	⊗/-	
Switching frequency (Hz)		125	40	125		



C	Combined multi-fixing	Flat 80 x 80	M30		M30 Long range
5	5 0 cm	1 m	1 m	2 m	8 m

50 cm	1 m	1 m		Z m	ð m
5.150.8 cm	0.11 m		0.050.99 m	0.122 m	0.38 m
Adjustable using remote control	l	Adjustable using teach mode			
-20+65	0+70				-20+60
			10.05		
			IP 65		
M 18 / 18 x 33 x 60	80 x 80 x 34	M30 x 78	M30 x 85		M30 x 106

XX7V1A1PAM12	XX8D1A1PAM12	XX6V3A1PAM12	-	-	-
XX7V1A1NAM12	XX8D1A1NAM12	XX6V3A1NAM12	-	-	-
		-	XX630A1KAM12	-	-
-	-	-	XX630A1PCM12	XX630A2PCM12	XX630A3PCM12
-	-	-	XX630A1NCM12	XX630A2NCM12	XX630A3NCM12
XXV1A1PAM12	XXBD1A1PAM12	XXBV3A1PAM12	-	-	-

		XX230A10PA00M12 (7)	XX230A20PA00M12 (7)	-
		XX230A11PA00M12 (7)	XX230A21PA00M12 (7)	-
40	70	10		2
		(7) 2 NO		

XX	X9V1A1F1M12	XX9D1A1F1M12	XX9V3A1F1M12	XX930A1A1M12	XX930A2A1M12	XX930A3A1M12
ХХ	X9V1A1C2M12	XX9D1A1C2M12	XX9V3A1C2M12	XX930A1A2M12	XX930A2A2M12	XX930A3A2M12

Remote control	M8 and M12 pre-v	vired female connectors	Fixing brackets		
teach button for use with sensors XXe18A3eee, XXeV1eee, XXeV3eee and XXeD1	M8 female 3-pin 3 wire ring for XX512A2	s, stainless steel clamping		for sensor	
XXZPB100		Straight connector 5 m cable XZCPA0566L5		Ø12 Ø18 Ø30	XSZBS12 XUZA118 XSZBS30
	M8 female 4-pin 4 wire ring for XX512A1	s, stainless steel clamping	-		
		Straight connector 5 m cable XZCPA0941L5			
	M12 female 5-pin 4 wire	es, stainless steel clamping ring			
		Straight connector 5 m cable XZCPA1141L5			
	H H	Elbowed connector 5 m cable XZCPA1241L5			



LED output state indicator ($\otimes)$

Short-circuit protection (*)

Switching frequency (Hz)

Ultrasonic sensors Detection of any material Cylindrical, stainless steel

100 % stainless steel



Proximity mode with "Discrete" output for DC applications (24 V)

4-wire	PNP/NPN	NO	-	XX630T1KA000M12
	PNP	NO/NC	XX630S1PCM12	-
	NPN	NO/NC	XX630S1NCM12	-

⊗ ★

10

Proximity mode with "Analogue" output for DC applications (24 V)

4-wire	Analogue	010 V output	XX930S1A1M12	-
		420 mA output	XX930S1A2M12	XX930T1A4303M12

Accessories

M12 pre-wired connectors

IP69K, female, 5-pin, 4 wires, stainless steel clamping ring

Straight	
2 m	XZCPA1141L2
5 m	XZCPA1141L5
10 m	XZCPA1141L10



Elbowed	
2 m	XZCPA1241L2
5 m	XZCPA1241L5
10 m	XZCPA1241L10



OsiSense XCC

Opto-electronic rotary encoders Hygienic design, stainless steel 316L







Туре			Incremental Ø 58	Absolute single turn	Absolute multiturn
Shaft Ø (mm)			Ø 10		
Type of shaft			Solid shaft		
Maximum rotational speed (r	rpm)		3000		3000
Maximum frequency (kHz)			300	100 (100 to 1000 SSI)	100 (100 to 500 SSI)
Maximum load radial/axial (d	laN)		25 / 50		25 / 25
Torque (N.cm)			0.4		
Product certification			CE		
Temperature range (°C)			- 30+ 100	- 20+ 90	- 20+ 85
Degree of protection (conformi	ing to IEC 60529)		IP 69K		
Supply voltage	Push-pull		530 V	1130 V	
Connection			Pre-cabled (2 m), axial		
Resolution (Points)	Output stage				
360	Push-pull		XCC1510SPA03Y	-	-
1024	Push-pull		XCC1501SPA11Y	-	-
5 000	Push-pull		XCC1510SPA50Y	-	-
8192	Push-pull	Gray	-	XCC2510SPA81KG	-
	SSI, 13 bits	Gray	-	XCC2510SPA81SGN	-
4096 points / 8192 turns	SSI, 25 bits	Gray	-	-	XCC3510SPA48SGN

Accessories

Shaft coupling				
With spring	Bore diameter	Bore diameter	Reference	
	(encoder side)	(machine side)		
	10 mm	10 mm	XCCRAR1010S	
	10 mm	12 mm	XCCRAR1012S	
Ŭ	10 mm	0.375"	XCCRAR10037S	



OsiSense XG

Radio frequency identification 13.56 MHz RFID

Presentation



OsiSense XG is open to the majority of ISO 18000-3, ISO 15693 and ISO 14443 electronic tags. OsiSense XG integrates Modbus RTU, Uni-Telway, Modbus TCP/IP (using Ethernet box XGSZ33ETH) and Profibus DP (with box XGSZ33PDP) protocols.

- The OsiSense XG RFID offer comprises:
- 2 models of 13.56 MHz smart antenna (read/write)
- 11 models of 13.56 MHz electronic tags
- 1 portable RFID diagnostics terminal
- 3 models of network connection boxes plus connection and mounting accessories.

Setting-up

- OsiSense XG smart antenna are simple to set-up:
- Integrated RFID and network functions
- No programming
- Automatic detection of the RFID electronic tags (read or write)
- Automatic setting of the communication parameters (speed, format, parity, protocol, etc.)
- Configuration of the network address (1 to 15) using badge included with the smart antenna
- Low sensitivity to metal environments.

Installation

OsiSense XG smart antenna easily integrate in flexible manufacturing production lines:

- quick connection using M12 connector
- screw fixing or clip-on mounting.





	-	-			
	Flat form 40	Flat form 80			
	40 x 40 x 15	80 x 80 x 26			
g on tag (mm)	18 to 70	20 to 100			
Type of associated tag ISO 15693 and ISO 14443 standard tags. Automatic detection of the type of tag.					
	1 dual colour LED for the communication network, 1	dual colour LED for the RFID communication			
	CE, EN 301489-1, EN 301489-3, ETS 300330-1 and ETS 300330-2, FCC part 15 - UL				
IEC 60529	IP 67				
Туре	RS 485				
Protocol	Modbus and Uni-Telway				
Speed (Bauds)	9600115 200 (automatic detection)				
	For operation: - 25+ 70 °C, for storage: - 40+ 85 °C				
	24 VDC PELV (Protective Extra Low Voltage)				
	M12, 5-pin male, shielded connector on flying lead. Only for connection to the communication network and the suppl				
	XGCS4901201	XGCS8901201			
	IEC 60529 Type Protocol	40 x 40 x 15 g on tag (mm) 18 to 70 ISO 15693 and ISO 14443 standard tags. Automatic 1 dual colour LED for the communication network, 1 CE, EN 301489-1, EN 301489-3, ETS 300330-1 and IEC 60529 IP 67 Type RS 485 Protocol Modbus and Uni-Telway Speed (Bauds) 9600115 200 (automatic detection) For operation: - 25+ 70 °C, for storage: - 40+ 84 24 VDC PELV (Protective Extra Low Voltage) M12, 5-pin male, shielded connector on flying lead. Only for			

					A state	1 76	
Electronic tags		Flat form 40	High tempe- rature Disc (3)	ISO badge (1)	Disc	Flat form 26	Cylindrical
Dimensions (mm), W x H x D		40 x 40 x 15	40 x 11	54 x 85.5 x 0.8	Ø 30 x 3	26 x 26 x 13	M18 x 1 x 12
Type of memory		EEPROM					
Memory capacity (bytes)		3 408	256	256	112	256	256
Nominal sensing distance (mm)	With station XGCS49•	33	40	70	48	40	18
(Read/Write)	With station XGCS89	48	63	100	65	55	20
Time (ms)	Read	9.25 + 0.375 x n (2)	12 + 0.825 x n (2)	12 + 0.825 x n (2)		_	
	Write	13 + 0.8 x n (2)	20 + 11.8 x n (2)	20 + 11.8 x n (2)	12 + 5.6 x n (2)	20 + 11.8 x n (2)	19 + 4.1 x n (2)
Degree of protection conforming to	IEC 60529	IP 68		IP 65		IP 68	
Standard supported		ISO 14443	ISO 15693	ISO 15693	ISO 15693		
Mounting on metal support		Yes		No		Yes	No
References		XGHB444345	XGHB411346	XGHB90E340	XGHB320345	XGHB221346	XGHB211345
(1) Customised versions on request	t. (2) n = number of 16-bit	words. (3) For ope	ration - 25…+ 90 °C, f	for storage - 25+	120 °C (+ 160 °C f	or 50 hours, + 220	°C max. peak).







Connection boxes	Ethernet Modbus TCP/IP box	Profibus box	EtherNet/IP box	
Dimensions (mm), W x H x D	130 x 80 x 51		130 x 80 x 51	
Protocols	Modbus TCP/IP	Profibus DP	EtherNet/IP	
Supply voltage	24 VDC PELV. M12, 4-pin male, A coding, connector			
Conformity to standards	CE - UL	CE	CE	
Station connection	M12, 5-pin female, A coding, conne	ector		
Degree of protection conforming to IEC 60529	IP 65			
References	XGSZ33ETH	XGSZ33PDP	XGSZ33EIP	



Terminal		Portable 13.56 MHz RFID diagnostics terminal				
Dimensions (mm), W x	(H x P	78 x 153 x 27				
Function		Read/Write operations on electronic tags				
Operating system		Proprietary OS				
Conformity to standards		CE, FCC class A, Part 15				
Display		53 x 95 mm colour OLED touchscreen 272 x 480 pixels resolution				
Degree of protection co	onforming to IEC 60529	IP 40				
Memory	RAM	256 Mb				
Storage		internal 2 GB + USB socket for memory stick				
Reference		XGST2422 (battery, battery charger, 2 GB USB memory stick, and carrying case included with terminal).				
		RFID reader to be ordered separately: XGCS4901201 (integrated reader) or XGW4F111 (remote reader)				





Connection	accessories						
	for Modbus network			for Ethernet	Pre-wired connector	"T" connector	
Description	Modbus connecting cable	us connecting cable Pre-wired connector Modbus connecting		Ethernet	Pre-wired	Network M12	
	M12 connectors	M12 male / Bare wires	cable M12 connectors	connecting cable	supply connector	"T" connector	
	Male / Female		Female / Mini-DIN 8	M12 male / RJ 45	M12 female	1 male / 2 female	
Application	RS485 connection	Connection between a	Connection between a	Connection between an	24 VDC supply to	For chaining of smar	
	between a smart antenna	Modbus box and a	Modbus box and a PLC	Ethernet box and the	connection boxes	antennas on RS485	
	and a connection box or	Modbus / Uni-Telway		Ethernet network		network	
	between 2 Modbus boxes	network					
L = 2 m	TCSMCN1M1F2	TCSMCN1F2	TCSMCN1F9M2P	XGSZ12E4503 (3)	XGSZ09L2	TCSCTN011M11F	
L = 5 m	TCSMCN1M1F5	TCSMCN1F5	-	XGSZ12E4510 (4)	XGSZ09L5		
(3) L = 3 m	(4) L=10 m						
Field expand	ler			RS232/RS485 converter			
To be associated with a smart antenna XGCS4901201 for conveying and handling applications							
	3						

250 x 250 mm

XGFEC2525

50 x 400 mm

XGFEC540

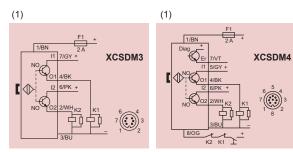
Other versions: please consult our Customer Care Centre.

XGSZ24

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Safety sensors

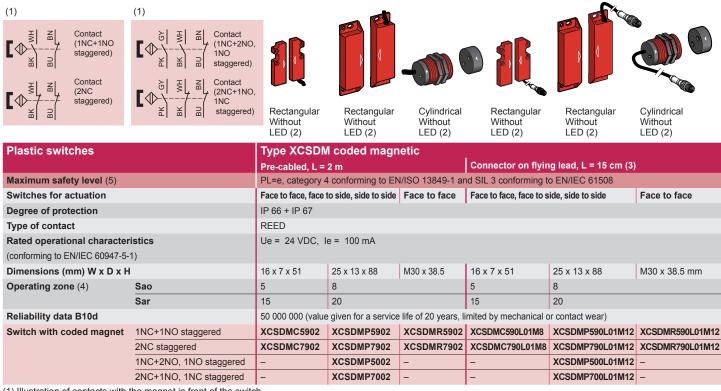
Coded magnetic technology Plastic coded magnetic system





Type of system With integrated saf	ety module		SIL2/Category 3 XCSDM3	SIL3/Category 4 XCSDM4			
Maximum safety level			SIL 2 conforming to EN/IEC 61508,PL=d, SIL 3 conforming to EN/IEC 61508, PL				
			category 3 conforming to EN/ISO 13849-1 category 4 conforming to EN/ISO 13849-1				
Switches for actuation	1		Face to face, face to side, side to side				
Degree of protection			Pre-cabled: IP66 / IP67, IP69K, connector: IP67				
Type of contact			2 solid-state output PNP/NO, 1,5 A / 24VDC (2 A up to 60°C)				
Rated operational char	acteristics (conformin	g to EN IEC 60947-5-1)	Ub: 24 VDC +10% - 20%				
Dimensions (mm) W x	D x H		34 x 27 x 100				
Operating zone			Sao= 10 mm / Sar= 20 mm				
Reliability data			MTTFd = 182 years; PFH = 3.94E -9; PFD = 1.15E -5; SFF = 92.5%; HFT = 1				
References	Connection	for cable L= 2m	XCSDM379102	XCSDM480102			
		for cable L= 5m	XCSDM379105	XCSDM480105			
		for cable L= 10m	XCSDM379110	XCSDM480110			
		for connector M12	XCSDM3791M12	XCSDM4801M12			

Plastic coded magnetic



(1) Illustration of contacts with the magnet in front of the switch.

(2) For version with LED indicator, replace the last 0 in the reference by 1 (example: XCSDMC5902 becomes XCSDMC5912).

(3) For associated pre-wired female connectors, see page 17.

(4) Sao: assured operating distance. Sar: assured release distance.

(5) Using an appropriate and correctly connected control system

Safety sensors _____ Coded magnetic technology Safety modules







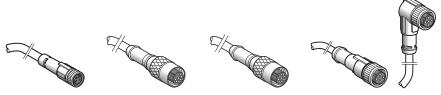


Safety modules for monitoring 1 safety function

	ty level of the soluti 1, EN/IEC 62061)	on attained	PL e / Cat. 4, SILCL 3				
For monitoring			2 coded magnetic switches	6 coded magnetic switches	1 coded magnetic switch		
			maximum	maximum	maximum		
			(with 1 N/C + 1 N/O)	(with 1 N/C + 1 N/O)	(with 2 N/C)		
Number of circuits	Number of circuits		2 N/O	2 N/O	3 N/O		
		Additional	2 solid-state	2 solid-state	-		
Display (number of LEDs)		3	15	3			
Width of housing			22.5 mm	45 mm	22.5 mm		
Reference	Supply voltage	24 VDC	XPSDMB1132P (1)	XPSDME1132P (1)	XPSAF5130P (1)		

(1) For version with non removable terminal block, delete the letter P from the end of the reference (example: XPSDMB1132P becomes XPSDMB1132)

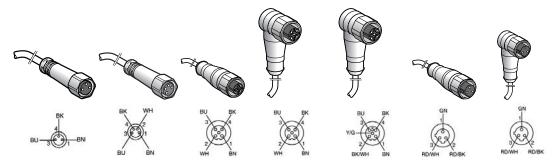
Cabling accessories



Type of access	ory		Pre-wired conne	Pre-wired connectors					
Connector type			Female M8	Female M12	Female M12 (A coding)	Female M12			
Number of pins			4	8	8	4			
For use with			XCSDMC	XCSDMP50eL01M12 XCSDMP70eL01M12	XCSDM3000M12 XCSDM4000M12	XCSDMP59eL01M12 XCSDMP79eL01M12 XCSDMR59eL01M12 XCSDMR79eL01M12			
Туре	Straight	2 m 5 m 10 m	XZ CP0941L2 XZCP0941L5 XZCP0941L10	XZCP29P11L2 XZCP29P11L5 XZCP29P11L10	XZCP29P12L2 XZCP29P12L5 XZCP29P12L10	XZCP1141L2 XZCP1141L5 XZCP1141L10			
	Elbowed	2 m 5 m	XZCP1041L2 XZCP1041L5	-		XZCP1241L2 XZCP1241L5			
		10 m	XZCP1041L10	-	-	XZCP1241L10			



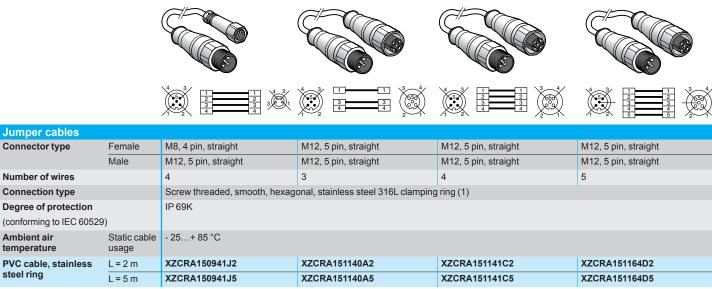
PVC Cables, IP 69K Pre-wired connectors M8, M12 and 1/2" - 20UNF



Pre-wired connecto	Pre-wired connectors							
Connector type		Female, M8, straight	Female, M8, straight	Female, M12, straight	Female, M12, elbowed	Female, M12, elbowed	Female, 1/2" 20UNF, straight	Female, 1/2" 20UNF, elbowed
Number of pins		3	4	5	5	5	3	3
Number of wires		3	4	4	4	5	3	3
Connection type		Screw threaded, smooth, hexagonal, stainless steel 316L clamping ring (1)						
Degree of protection (conforming to IEC 60529)		IP 68		IP 69K				
Ambient air temperature	Static cable usage	- 25+ 85 °C						
PVC cable, stainless L = 2 m		-	-	XZCPA1141L2	XZCPA1241L2	XZCPA1164L2	-	-
steel ring	L = 5 m	XZCPA0566L5	XZCPA0941L5	XZCPA1141L5	XZCPA1241L5	XZCPA1164L5	XZCPA1865L5	XZCPA1965L5
	L = 10 m	XZCPA0566L10	XZCPA0941L10	XZCPA1141L10	XZCPA1241L10	XZCPA1164L10	XZCPA1865L10	XZCPA1965L10

(1) Tightening by hand recommended.

Jumper cables



(1) Tightening by hand recommended.



OsiSense XUZC _____ Reflectors Compatibility with photo-electric sensors

1

Hare

	• • •		5		
Rigid reflectors					
Dimensions (mm)	50x70	50x70	40x60	Ø84	100X100
Fixing mode	6 holes		2 holes	one hole	2 brackets
Chemical resistance	No				
High precision	No	Yes	No		
Degree of protection	IP 67 / IP 69K				
(conforming to IEC 60529)					
Operating temperature	-20 °C to +60 °C				
References	XUZC50	XUZC50HP	XUZC60S11	XUZC80	XUZC100
Compatibility and effect on sensing ra	nge		·		·
Cylindrical M18 Food & Beverage processing	100%	-	80%	130%	135%
Cylindrical M18 Transparent material	-	100%	-	-	-
Compact XUK stainless steel	100%	-	80%	150%	180%
Compact XUK Laser beam	_	-	-	_	-

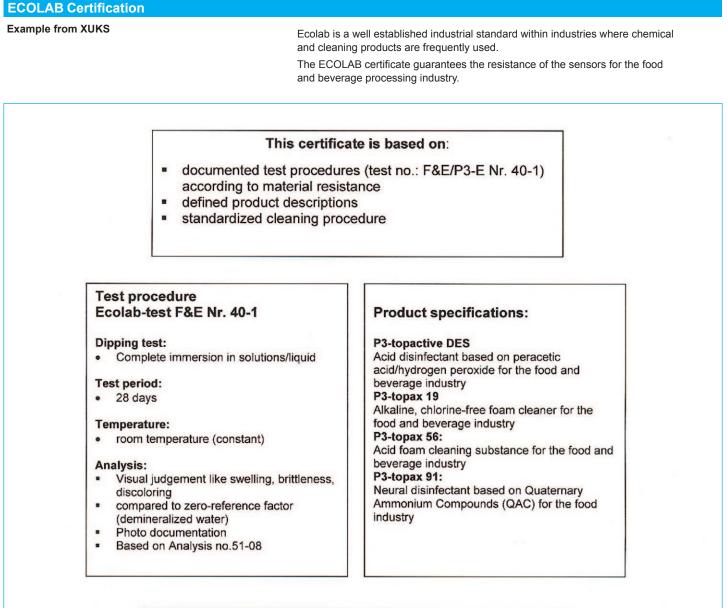


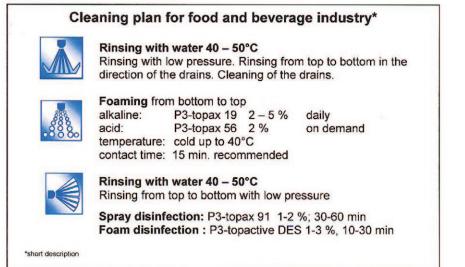
Rigid reflectors				
Dimensions (mm)	20x32	18x60	19x60	50x70
Fixing mode	2 holes			6 holes
Chemical resistance	yes			
High precision	yes	no	yes	no
Degree of protection	IP 67 / IP 69K			
(conforming to IEC 60529)				
Operating temperature	-20 °C to +140 °C			
References	XUZCR0201CRHP	XUZCR0402CR	XUZCR0401CRHP	XUZC50CR
Compatibility and effect on sensing ra	ange			
Cylindrical M18 Food & Beverage processing	-	30%	-	50%
Cylindrical M18 Transparent material	20%	-	25%	-
Compact XUK stainless steel	-	30%	-	50%
Compact XUK Laser beam	10%	-	15%	-



Technical information Ecolab certification

EC⊗LAB°





Technical information Degrees of protection provided by enclosures IP code

IP ••• code

The IP code comprises **2 characteristic numerals** (e.g. **IP55**) and may include **an additional letter** when the actual protection of personnel against direct contact with live parts is better than that indicated by the first numeral (e.g. IP 20C). Any characteristic numeral which is unspecified is replaced by an X (e.g. IP XXB).

1st characteristic numeral:

corresponds to protection of the equipment against

2nd characteristic numeral:

corresponds to protection of the equipment

Additional letter:

corresponds to protection of personnel against direct contact with live parts.

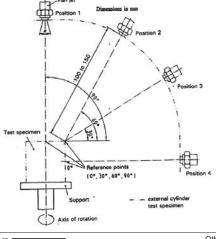
again	st direct contact w							
	Protection of the	equipment	Protection of personnel					
0	Non-protected		Non-protected	0	0 Non-protected		Α	With the back of the hand.
1	Ø 50 mm	Protected against the penetration of solid objects having a diameter greater than or equal to 50 mm	direct contact with the back of the			Protected against vertical dripping water, (condensation).	В	With the finger.
2	Ø 12,5 mm	Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm.	contact.	2	15-1	Protected against dripping water at an angle of up to 15°.	С	With a Ø 2.5 mm tool.
3	Ø 2,5 mm	Protected against the penetration of solid objects having a diameter greater than or equal to 2.5 mm.	a Ø 2.5 mm tool.		A A A A A A A A A A A A A A A A A A A	Protected against rain at an angle of up to 60°.	D	With a Ø 1 mm wire.
4	Ø1mm		Protected against direct contact with a Ø 1 mm wire.			Protected against splashing water in all directions.		
5		Dust protected (no harmful deposits).	Protected against direct contact with a Ø 1 mm wire.			Protected against water jets in all directions.		
6 		Dust tight.	Protected against direct contact with a Ø 1 mm wire.	6		Protected against powerful jets of water and waves.		
				7 ひ ひ	1 min	Protected against the effects of temporary immersion.		
				8	m	Protected against the effects of prolonged immersion under		

Test IP 69K

IP 69 K

Conforming to DIN40050, part 9: protected against water during high pressure/steam cleaning.

- + High temperature (+ 80 °C)
- + High pressure (100 bar).
- + Test duration (3 minutes)



specified conditions.

The high pressure water test is made according to Standard(s): DIN 40050-9 (1993); IEC 60529 Ed. 2.1 (2001); IEC 60947-1 Ed. 5 (2007); IEC 60947-5-2 Ed. 3 (2007).



Flash this code and discover the IP69K test for XUKS

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Schneider Electric Industries SAS

Head Office 35, rue Joseph Monier - CS 30323 F92500 Rueil-Malmaison Cedex France

www.tesensors.com

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