



	M12	M18	M18
<b>Nominal sensing distance Sn</b>	<b>5 or 10 cm</b> depending on model	<b>15 or 50 cm</b> depending on model	<b>50 mm</b>
<b>Mode proximity or reflex (1)</b>			
<b>Mode thru beam</b>	<b>20 cm</b>	<b>61 or 100 cm</b> depending on model	
Operating zone for proximity mode	0.64...5.1 cm (XX512A1...) 0.64...10.2 cm (XX512A2...)	1.9...15.2 cm (XX518A1...) 5.1...50.8 cm (XX518A3...)	2...50 mm
Sensitivity adjustment	Fixed	Adjustable using remote control for XX518 A3. Fixed for XX518A1, XXT18, XXR18	Fixed
Case M (metal), P (plastic)	P		M
Product certification	CE		
Temperature range (°C)	- 20...+ 65	0...+ 50 (XX518A1...)/ - 20...+ 65 (XX518A3...)/ 0... 60 (XXT18, XXR18)	0...+ 60
Degree of protection (conforming to IEC 60529)	IP 67		
Dimensions (mm) Ø x L	M12 x 50	M18 x 65	M18 x 75 (M12) M18 x 65 (Cable)

**Proximity or Reflex (1) mode with “Discrete” output for DC applications (24 V)**

Connection	M8 connector	M12 connector	Pre-cabled (2 m), M12 connector
<b>3-wire</b>	<b>PNP</b> <b>NO function</b>	<b>XX512A2PAM8</b> (10 cm)	<b>XXV18B1PAL2</b> (cable) <b>XXV18B1PAM12</b> (M12)
	<b>NPN</b> <b>NO function</b>	<b>XX512A2NAM8</b> (10 cm)	<b>XXV18B1NAL2</b> (cable) <b>XXV18B1NAM12</b> (M12)
<b>4-wire</b>	<b>PNP/NPN</b> <b>NO function</b>	<b>XX512A1KAM8</b> (5 cm)	<b>XX518A1KAM12</b> (15 cm)

**Application - monitoring levels**

<b>2 emptying levels</b>	<b>PNP NO function</b>	–	<b>XX218A3PHM12</b> (50 cm) (2)	–
<b>2 filling levels</b>	<b>PNP NO function</b>	–	<b>XX218A3PFM12</b> (50 cm) (2)	–
Supply voltage limits, min./max. (V) including ripple		10...28		
Switching capacity, max. (mA)		<100		
Short-circuit protection (★)		★		
LED output state indicator (⊗) / Power on LED (⊗)		⊗ / ⊗	⊗ / ⊗ except XX518A1.. (- / -)	
Voltage drop, closed state (V) at I nominal		<1		
Switching frequency (Hz)		125	40 / 80 (XX518A1..)	
Transmission frequency (kHz)		500	300	

(1) Reflex mode only for sensor with adjustable sensitivity.

(2) 1 NO

**Proximity mode with “Analogue” output for DC applications (24 V)**

Connection	M12 connector		
<b>4-wire</b> <b>Analogue</b>	<b>0...10 V output</b>	–	<b>XX918A3F1M12</b> (50 cm)
	<b>4...20 mA output</b>	–	<b>XX918A3C2M12</b> (50 cm)
Supply voltage limits, min./max. (V) including ripple		–	10...28
Short-circuit protection (★)		–	★
LED output state indicator (⊗) / Power on LED (⊗)		–	⊗ / ⊗
Transmission frequency (kHz)		–	300

**Thru beam mode with “Discrete” output for DC applications (24 V)**

Connection	M8 connector	M12 connector	
<b>4-wire</b>	Receiver (NO/PNP + NO NPN)	<b>XXR12A8KAM8</b>	<b>XXR18A3KAM12</b> (0.61 m) <b>XXR18A4KAM12</b> (1 m)
	Receiver (NC/PNP + NC NPN)	<b>XXR12A8KBM8</b>	<b>XXR18A3KBM12</b> (0.61 m) <b>XXR18A4KBM12</b> (1 m)
Transmitter	<b>XXT12A8M8</b>	<b>XXT18A3M12</b> (0.61 m) <b>XXT18A4M12</b> (1 m)	–

**DETECÇÃO DE QUALQUER MATERIAL**



	M30			M30 Long range
<b>Nominal sensing distance Sn</b> <b>Mode proximity or reflex (1)</b>	<b>1 m</b>	<b>1 m</b>	<b>2 m</b>	<b>8 m</b>
Operating zone for proximity mode	0.1...1 m	0.05...0.99 m	0.12...2 m	0.3...8 m
Sensitivity adjustment	Adjustable using remote control			teach mode
Case M (metal), P (plastic)	P			P
Product certification	CE			CE
Temperature range (°C)	0...+ 70			- 20...+ 60
Degree of protection (conforming to IEC 60529)	IP 67		IP 65	
Dimensions (mm) Ø x L	M30 x 78		M30 x 85	

**Proximity or Reflex (1) mode with “Discrete” output for DC applications (24 V)**

Connection	M12 connector			M12 connector
3-wire	<b>PNP</b>	<b>NO function</b>	<b>XX6V3A1PAM12</b>	–
	<b>NPN</b>	<b>NO function</b>	<b>XX6V3A1NAM12</b>	–
4-wire	<b>PNP/NPN</b>	<b>NO function</b>	–	<b>XX630A1KAM12</b>
	<b>PNP</b>	<b>NO + NC function</b>	–	<b>XX630A1PCM12 (2)</b>
	<b>NPN</b>	<b>NO + NC function</b>	–	<b>XX630A1NCM12 (2)</b>

**Application - monitoring levels**

<b>2 emptying levels</b>	<b>PNP NO function</b>	–	<b>XX230A10PA00M12 (3)</b>	<b>XX230A20PA00M12 (3)</b>	–
<b>2 filling levels</b>	<b>PNP NO function</b>	–	<b>XX230A11PA00M12 (3)</b>	<b>XX230A21PA00M12 (3)</b>	–
Supply voltage limits, min./max. (V) including ripple	10...28				
Switching capacity, max. (mA)	<100				
Short-circuit protection (★)	★				
LED output state indicator (⊗) / Power on LED (⊗)	⊗ / ⊗				
Voltage drop, closed state (V) at I nominal	<1				
Switching frequency (Hz)	70	10			2
Transmission frequency (kHz)	180	200			75

(1) Reflex mode only for sensor with adjustable sensitivity.

**Proximity mode with “Analogue” output for DC applications (24 V)**

Connection	M12 connector			M12 connector	
4-wire	<b>Analogue</b>	<b>0...10 V output</b>	<b>XX9V3A1F1M12</b>	<b>XX930A1A1M12 (2)</b>	–
		<b>4...20 mA output</b>	<b>XX9V3A1C2M12</b>	<b>XX930A1A2M12 (2)</b>	–
Supply voltage limits, min./max. (V) including ripple	10...28			10...28	
Short-circuit protection (★)	★			★	
LED output state indicator (⊗) / Power on LED (⊗)	⊗ / ⊗			⊗ / ⊗	
Transmission frequency (kHz)	180	200	–	75	

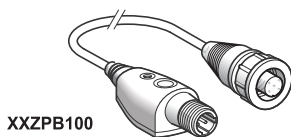
(2) Stainless steel 303 version also available. To order, replace the first letter **A** in the reference by **S**. Example: XX630A1PCM12 becomes XX630S1PCM12. (3) NO+NC

**Accessories**

**Programming**

**Remote control**

teach button for use with sensors XX●18A3●●●, XX●V1●●●, XX●V3●●● and XX●D1



XXZPB100

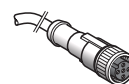
**Suitable female plug-in connectors**

**PUR Pre-wired connectors (1)**

elbowed



straight



**Other connectors**

screw terminal



L = 5 m (without LED)

M8	for XX512A1...	<b>XZCP1041L5</b>	<b>XZCP0941L5</b>	<b>XZCC8FCM40V</b>
	for XX512A2...	<b>XZCP0666L5</b>	<b>XZCP0566L5</b>	<b>XZCC8FCM30V</b>
M12	for all sensors except XX512...	<b>XZCP1241L5</b>	<b>XZCP1141L5</b>	<b>XZCC12FCM40B</b>



	Mini flat	Flat	Combined multi-fixing	Flat 80 x 80
<b>Nominal sensing distance Sn</b>	<b>10 cm</b>	<b>25 cm</b>	<b>50 cm</b>	<b>1 m</b>
<b>Mode proximity or reflex (1)</b>				
<b>Mode thru beam</b>	<b>20 cm</b>	<b>61 or 100 cm depending on model</b>	—	—
Operating zone for proximity mode	0.62...10.2 cm	5.1...25.4 cm	5.1...50.8 cm	0.1...1 m
Sensitivity adjustment	Fixed		Adjustable using remote control	
Case P (plastic)	P			
Product certification	CE			
Temperature range (°C)	- 20...+ 65	0...+ 50	- 20...+ 65	0...+ 70
Degree of protection (conforming to IEC 60529)	IP 67			
Dimensions (mm) Ø x L or H x W x D	33 x 19 x 7.6	74 x 30 x 16	M 18 / 18 x 33 x 60	80 x 80 x 34

**Proximity or Reflex (1) mode with “Discrete” output for DC applications (24 V)**

Connection		M12 on 0.15 m flying lead	M12 connector			
3-wire	PNP	NO function	XX7F1A2PAL01M12	XX7K1A2PAM12	XX7V1A1PAM12	XX8D1A1PAM12
	NPN	NO function	XX7F1A2NAL01M12	XX7K1A2NAM12	XX7V1A1NAM12	XX8D1A1NAM12
Supply voltage limits, min./max. (V) including ripple			10...28			
Switching capacity, max. (mA)			<100			
Short-circuit protection (★)			★			
LED output state indicator (⊗) / Power on LED (⊗)			⊗ / ⊗			
Voltage drop, closed state (V) at I nominal			<1			
Switching frequency (Hz)			100	80	40	70
Transmission frequency (kHz)			500		300	180

(1) Reflex mode only for sensor with adjustable sensitivity.

**Proximity mode with “Analogue” output for DC applications (24 V)**

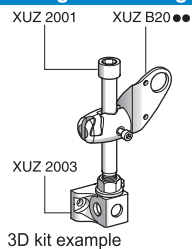
Connection			M12 connector	
4-wire	Analogue	0...10 V output	XX9V1A1F1M12	XX9D1A1F1M12
		4...20 mA output	XX9V1A1C2M12	XX9D1A1C2M12
Supply voltage limits, min./max. (V) including ripple			10...28	
Short-circuit protection (★)			★	
LED output state indicator (⊗) / Power on LED (⊗)			⊗ / ⊗	
Transmission frequency (kHz)			300	180

**Thru beam mode with “Discrete” output for DC applications (24 V)**

Connection				
4-wire	Receiver (NO/PNP + NO/NPN)	XXRF1A8KAM12L	XXRK1A3KAM12 (0.61m) XXRK1A4KAM12 (1m)	—
	Receiver (NC/PNP + NC/NPN)	XXRF1A8KBM12L	XXRK1A3KBM12 (0.61m) XXRK1A4KBM12 (1m)	—
	Transmitter	XXTF1A8M12L	XXTK1A3M12 (0.61m) XXTK1A4M12 (1m)	—

**Accessories**

**Fixings - 3D fixings with ball joint**



Bracket with ball joint for cylindrical sensors

for

Ø 12	XUZB2012
Ø 18	XUZB2003
Ø 30	XUZB2030

M12 rod for ball joint

XUZ2001

Fixing support for M12 rod

XUZ2003

**Simple fixings**

90° fixing brackets

for

Ø 12	XXZ12
Ø 18	XUZA118
Ø 30	XXZ30
XX7F	XXZ1933

Mounting plates for XX7K

flat	XXZ3074F
cranked	XXZ3074S