



Osiprox

Inductive proximity sensors Universal, metal case



Sensor type	3-wire DC PNP, flush mountable in metal		
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, pr IEC 61241-0, pr IEC 61241-1		
Zone D (dust)	21 - 22		
EC type examination certificate number / marking	INERIS 04ATEX0022X / II 2 D-Ex tD A21 IP68 T90°C		
Nominal sensing distance Sn	4 mm	8 mm	15 mm
Operating zone	0...3.2 mm	0...6.4 mm	0...12 mm
Temperature range	-20...+ 60°C		
Degree of protection (conforming to IEC 60529)	IP68		
Connection	Pre-cabled, PVR, L = 10 m		
Dimensions	M12 x 50 mm	M18 x 60 mm	M30 x 60 mm
Supply voltage (including ripple)	10...58 V DC		
Maximum switching capacity	200 mA		
Overload and short-circuit protection	Yes		
LED output state indicator	Yes		
Voltage drop, closed state, at I nominal	≤ 2 V		
Switching frequency	2500 Hz	1000 Hz	500 Hz
References	NO function XS612B1PAL10EX	XS618B1PAL10EX	XS630B1PAL10EX
	NC function XS612B1PBL10EX	XS618B1PBL10EX	XS630B1PBL10EX

Analogue, metal case



Sensor type	Analogue, 2-wire AC/DC, flush mountable in metal		
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, pr IEC 61241-0, pr IEC 61241-1		
Zone D (dust)	21 - 22		
EC type examination certificate number / marking	INERIS 04ATEX0022X / II 2 D-Ex tD A21 IP67 T90°C		
Nominal sensing distance Sn	2 mm	5 mm	10 mm
Operating zone	0.2...2 mm	0.5...5 mm	1...10 mm
Temperature range	-20...+ 60°C		
Degree of protection (conforming to IEC 60529)	IP67		
Connection	Pre-cabled, PVR, L = 2 m		
Dimensions	M12 x 50 mm	M18 x 60 mm	M30 x 60 mm
Supply voltage (including ripple)	10...38 V DC		
Linearity error	10%		
Operating frequency	1500 Hz	500 Hz	300 Hz
References	4...20 mA output XS1M12AB120EX	XS1M18AB120EX	XS1M30AB120EX





Proximity sensors Rotation monitoring, metal case



M30

Sensor type	3-wire DC PNP, flush mountable in metal		
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, pr IEC 61241-0, pr IEC 61241-1		
Zone D (dust)	21 - 22		
EC type examination certificate number / marking	INERIS 04ATEX0022X / II 2 D-Ex tD A21 IP67 T90°C		
Nominal sensing distance Sn	10 mm		
Operating zone	0...8 mm		
Temperature range	-20...+60°C		
Degree of protection (conforming to IEC 60529)	IP67		
Connection	Pre-cabled, PvR, L = 2 m		
Dimensions	M30 x 81 mm		
Supply voltage (including ripple)	10...58 V DC		
Maximum switching capacity	200 mA		
Overload and short-circuit protection	Yes		
LED output state indicator	Yes		
Voltage drop, closed state, at I nominal	≤ 2 V		
Version	Slow	Fast	
Maximum speed of passing object	6000 impulses/minute	48,000 impulses/minute	
Adjustable frequency range	6...150 impulses/minute	120...3000 impulses/minute	
References	NC function	XSAV11373EX	XSAV12373EX

Capacitive, metal case



M12



M18



M30

Sensor type	3-wire DC PNP, flush mountable in metal			
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, pr IEC 61241-0, pr IEC 61241-1			
Zone D (dust)	21 - 22			
EC type examination certificate number / marking	INERIS 04ATEX0022X / II 2 D-Ex tD A21 IP67 T90°C			
Nominal sensing distance Sn	2 mm	5 mm	10 mm	
Operating zone	0...1.4 mm	0...3.6 mm	0...7.2 mm	
Temperature range	-20...+60°C			
Degree of protection (conforming to IEC 60529)	IP67			
Connection	Pre-cabled, PVC, L = 2 m			
Dimensions	M12 x 50 mm	M18 x 60 mm	M30 x 60 mm	
Supply voltage (including ripple)	10...38 V DC			
Maximum switching capacity	300 mA			
Overload and short-circuit protection	Yes			
LED output state indicator	Yes			
Voltage drop, closed state, at I nominal	≤ 2 V			
Switching frequency	100 Hz			
References	NO function	XT1M12PA372EX	XT1M18PA372EX	XT1M30PA372EX
	NC function	XT1M12PB372EX	XT1M18PB372EX	XT1M30PB372EX



Osiprox

Namur inductive sensors Metal or plastic case



Sensor type	2-wire DC, flush mountable in metal					
Case type	Metal			Plastic		
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, EN 50020, EN 50284, pr IEC 61241-0, pr IEC 61241-1					
Zone D (dust)	20 (to be used in conjunction with intrinsically safe enclosures, see page 5)					
EC type examination certificate number / marking	INERIS 04ATEX0016X / II 1 D-Ex iaD 20 IP66/67 T85°C					
Nominal sensing distance Sn	0.8 mm	1.5 mm	2 mm	5 mm	10 mm	
Operating zone	0...0.6 mm	0...0.8 mm	0...1.2 mm	0...1.6 mm	0...4 mm	0...8 mm
Temperature range	-20...+60°C					
Degree of protection (conforming to IEC 60529)	IP67					
Connection	Pre-cabled, PvR, L = 2 m					
Dimensions	M5 x 30 mm	M8 x 26.5 mm	M12 x 38.5 mm	M18 x 41 mm	M30 x 43.5 mm	
Supply voltage (including ripple)	7...12 V DC					
Current consumption, open state (without target)	≥ 3 mA					
Overload and short-circuit protection	Yes					
Residual current, open state (with target)	≤ 1 mA					
Switching frequency	1500 Hz	1000 Hz	800 Hz	500 Hz	300 Hz	
References	NC function	XSMN08122EX	XSAN01122EX	XSPN01122EX	XSPN02122EX	XSPN05122EX
					XSPN10122EX	

Plastic case



Sensor type	2-wire DC, non flush mountable in metal					
Case type	Plastic					
Conformity	Directive ATEX D 94/9/EC, EN 50014, EN 50281-1-1, EN 50020, EN 50284, pr IEC 61241-0, pr IEC 61241-1					
Zone D (dust)	20					
EC type examination certificate number / marking	INERIS 04ATEX0016X / II 1 D-Ex iaD 20 IP66/67 T85°C					
Nominal sensing distance Sn	4 mm	8 mm	15 mm	15 mm	40 mm	
Operating zone	0...3.2 mm	0...6.4 mm	0...12 mm	0...12 mm	0...32 mm	
Temperature range	-20...+60°C					
Degree of protection (conforming to IEC 60529)	IP67					
Connection	Pre-cabled, PvR, L = 2 m			Screw terminals		
Dimensions	M12 x 38.5 mm	M18 x 41 mm	M30 x 43.5 mm	40 x 40 x 122.5 mm	100 x 80 x 40 mm	
Supply voltage (including ripple)	7...12 V DC					
Current consumption, open state (without target)	≥ 3 mA					
Overload and short-circuit protection	Yes					
LED output state indicator	Yes					
Residual current, open state (with target)	≤ 1 mA					
Switching frequency	400 Hz	300 Hz	200 Hz	100 Hz	25 Hz	
References	NC function	XSPN04122EX	XSPN08122EX	XSPN15122EX	XSCN151229EX (1)	XSDN401229EX

(1) Flush mountable in metal