



XS Inductive proximity sensors

Discrete, metal case



Sensor type	3-wires DC PNP, flush mountable in metal		
Conformity	Directive ATEX 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31		
Zone D (dust)	21 - 22		
Marking	Ex tb III C T90°C Db IP67 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db		
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)	IP67		
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 VDC		
Switching capacity, max	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 (1)	XS618B1PAL10EX (1)	XS630B1PAL10EX (1)
	NC function XS612B1PBL10EX	XS618B1PBL10EX	XS630B1PBL10EX

(1) for a 2 meters pre-cabled version, replace ... L10EX by ... L2EX



XS Inductive proximity sensors

Discrete, plastic case



Sensor type	DC 4 wire PNP	
Conformity	Directive ATEX 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31	
Zone D (dust)	21 - 22	
Marking	Ex tb III C T85°C Db IP65/67 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db	
Nominal sensing distance Sn	20 mm flush mountable	40 mm No flush mountable
Operating zone	16 mm	32 mm
Temperature range	- 25...+ 60°C	
Degree of protection (conforming to IEC 60529)	IP65/67	
Connection	1 tapped entry for M20 x 1,5 for cable gland supplied	
Dimensions	40 x 40 x 117 mm + cable gland	
Supply voltage (including ripple)	10...58 VDC	
Switching capacity, max	200 mA	
Overload and short-circuit protection	Yes	
LED output state indicator	Yes	
Voltage drop, closed state at I nominal	≤ 2 V	
Switching frequency	300 Hz	
Niveau Safety	SIL2	
Reliability data Safety	MTTFd = 1546 years, SFF = 92%, DC = 75% with appropriate safety controller	
References	Function NC + NC XS8C4A1PCP20EX (2)	XS8C4A4PCP20EX
	Function NC + NC XS8C4A1PCN12EX (3)	XS8C4A4PCN12EX

(2) with IECEx/ATEX certified cable gland

(3) if the sensor is not connected by a pipe, a certified cable gland must be added (not provided)



XS Inductive proximity sensors

Rotation monitoring, metal case



M30

Sensor type	3-wires DC PNP, flush mountable in metal	
Conformity	Directive ATE X 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31	
Zone D (dust)	21 - 22	
Marking	Ex tb III C T90°C Db IP67 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db	
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 VDC	
Switching capacity, max	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	48000 impulses/minute
Adjustable frequency range	6...150 impulses/minute	120...3000 impulses/minute
References	NC function XSAV11373EX (2)	XSAV12373EX (2)

(2) For pre-cabled version of 10 meters, replace ... 3EX by ... 3L10EX



XS Inductive proximity sensors

Analog, metal case



M12



M18



M30

Sensor type	Analogue, 2-wires DC, flush mountable in metal		
Conformity	Directive ATEX 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31		
Zone D (dust)	21 - 22		
Marking	Ex tb III C T90°C Db IP67 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db		
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 VAC/DC		
Linearity error	10%		
Operating frequency	1500 Hz	500 Hz	300 Hz
References	Output 4...20 mA XS1M12AB120EX	XS1M18AB120EX	XS1M30AB120EX

Other characteristics: please refer to the "Detection for OsiSense automation solutions" catalog