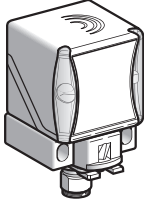


Inductive proximity sensors

XS range, general purpose
Cubic case, 40 x 40 x 70 mm, M12 or 1/2"-20UNF
connector
5 position turret head

Sensor	Flush mountable in metal	Non flush mountable in metal		
				
Nominal sensing distance (Sn)	15 mm	20 mm	40 mm	
References				
4-wire ---	PNP NO+NC	—	XS8C2A1PCM12	XS8C2A4PCM12
	NPN NO+NC	—	XS8C2A1NCM12	XS8C2A4NCM12
3-wire ---	PNP NO	XS7C2A1PAM12	—	—
	NPN NO	XS7C2A1NAM12	—	—
	PNP NC	XS7C2A1PBM12	—	—
	NPN NC	XS7C2A1NBM12	—	—
2-wire ---	NO	XS7C2A1DAM12	XS8C2A1DAM12	XS8C2A4DAM12
	NC	XS7C2A1DBM12	XS8C2A1DBM12	XS8C2A4DBM12
2-wire (~/---) unprotected (1)	NO	XS7C2A1MAU20	XS8C2A1MAU20	XS8C2A4MAU20
	NC	XS7C2A1MBU20	XS8C2A1MBU20	XS8C2A4MBU20
Weight (kg)	0.149	0.149	0.149	
Characteristics				
Operating zone	0...12 mm	0...16 mm	0...32 mm	
Product certifications	UL, CSA, CE, TÜV (4-wire), E2 (3-wire and 4-wire)			
Conformity to standards	IEC 60947-5-2			
Conformity to safety standards (2)	For XS8C2A●PCM12	EN 62061 (2005): SILcl2 EN 61508 (2010): SIL 2, EN ISO 13849 (2008): PL d		
Reliability data (2)	For XS8C2A●PCM12	MTTFd = 1546 years PFHd = 7.4 10 ⁻⁸ 1/h		
Connection	M12 connector for --- versions 1/2"-20UNF connector for ~/--- versions			
Differential travel	3...15% of Sr			
Degree of protection	Conforming to IEC 60529 and DIN 40050	IP 65, IP 67 and IP 69K		
Temperature	Storage	-40...+85°C		
	Operation (3)	-25...+70°C		
Material	Case: PBT			
Vibration resistance	Conforming to IEC 60068-2-6	25 gn, amplitude ± 2 mm (f = 10...55 Hz)		
Shock resistance	Conforming to IEC 60068-2-27	50 gn for 11 ms		
Indicators	Output state	Yellow LED		
	Power on	Green LED, for 4-wire ---, 3-wire --- and 2-wire ~/--- versions		
Rated supply voltage	4-wire ---	12...48 V with protection against reverse polarity		
	3-wire ---	12...24 V with protection against reverse polarity		
	2-wire ---	12...48 V with protection against reverse polarity		
	2-wire ~/---	24...240 V (~ 50/60 Hz)		
Voltage limits (including ripple)	4-wire ---	10...58 V		
	3-wire ---	10...36 V		
	2-wire ---	10...58 V		
	2-wire ~/---	20...264 V		
Current consumption, no-load	3-wire and 4-wire ---	< 15 mA		
Residual current, open state	2-wire ---	< 0.6 mA		
	2-wire ~/---	1.5 mA		
Switching capacity	3-wire and 4-wire ---	< 200 mA with overload and short-circuit protection		
	2-wire ---	< 100 mA with overload and short-circuit protection		
	2-wire ~/---	~: 5...300 mA (1) ---: 5...200 mA (1)		
Voltage drop, closed state	3-wire and 4-wire ---	< 2 V		
	2-wire ---	< 4.2 V		
	2-wire ---/~	< 5.5 V		
Maximum switching frequency	Flush mountable: --- 300 Hz, ~ 25 Hz Non flush mountable: --- 150 Hz, ~ 25 Hz			
Delays	First-up	7 ms (3-wire and 4-wire ---), 20 ms (2-wire --- and 2-wire ---/~)		
	Response	Flush mountable: ≤ 1.2 ms. Non flush mountable: ≤ 1.4 ms		
	Recovery	Flush mountable: ≤ 1.8 ms. Non flush mountable: ≤ 3.5 ms		

(1) Sensor must be protected by a 0.4 A quick-blow fuse (reference **XUZE04**) connected in series with the load.

(2) SIL 2 protection can only be obtained by connecting both outputs to a safety PLC.

(3) Sensors are available for very low temperatures (suffix **TF**: -40°C, +70°C) or very high temperatures (suffix **TT**: -25°C, +85°C). Please consult our Customer Care Centre.