

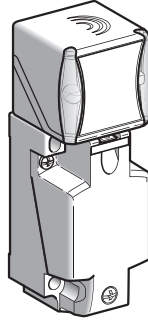
# Inductive proximity sensors

XS range, general purpose

Plastic case, 40 x 40 x 117 mm, plug-in

5 position turret head

Sensor	Flush mountable in metal	Non flush mountable in metal
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Nominal sensing distance (Sn)	15 mm	20 mm	40 mm
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## References

4-wire $\overline{---}$	PNP NO+NC	–	<b>XS8C4A1PCP20</b>	<b>XS8C4A4PCP20</b>
	NPN NO+NC	–	<b>XS8C4A1NCP20</b>	<b>XS8C4A4NCP20</b>
2-wire $\overline{---}$	NO or NC programmable	<b>XS7C4A1DPP20</b>	<b>XS8C4A1DPP20</b>	<b>XS8C4A4DPP20</b>
2-wire ( $\sim\overline{---}$ ) unprotected (1)	NO or NC programmable	<b>XS7C4A1MPP20</b>	<b>XS8C4A1MPP20</b>	<b>XS8C4A4MPP20</b>
Weight (kg)		0.244	0.244	0.244

**Note:** These sensors have an M20 cable entry. They can also be supplied with a PG 13.5 cable entry (e.g. **XS8C4A4PCG13**) or a 1/2" NPT cable entry (e.g. **XS8C4A1MPN12**). Please consult our Customer Care Centre.

## Characteristics

Operating zone		0...12 mm	0...16 mm	0...32 mm
Product certifications		UL, CSA, CE, TÜV (4-wire), E2 (4-wire)		
Conformity to standards		IEC 60947-5-2		
Conformity to safety standards (2)	For XS8C4A●PCP20	EN 62061 (2005): SILcl2, EN 61508 (2010): SIL 2, EN ISO 13849 (2008): PL d		
Reliability data (2)	For XS8C4A●PCP20	MTTFd = 1546 years PFHd = 7.4 10 <sup>-8</sup> 1/h		
Connection		Screw terminals, clamping capacity: 2 or 4 x 1.5 mm <sup>2</sup> / 2 or 4 x 16 AWG (3)		
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 (4)	- 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 $\overline{---}$ and 2-wire $\sim\overline{---}$ versions		
Rated supply voltage	4-wire $\overline{---}$	12...48 V with protection against reverse polarity		
	2-wire $\overline{---}$	12...48 V with protection against reverse polarity		
	2-wire $\sim\overline{---}$	24...240 V ( $\sim$ 50/60 Hz)		
Voltage limits (including ripple)	4-wire $\overline{---}$	10...58 V		
	2-wire $\overline{---}$	10...58 V		
	2-wire $\sim\overline{---}$	20...264 V		
Current consumption, no-load	4-wire $\overline{---}$	< 15 mA		
Residual current, open state	2-wire $\overline{---}$	< 0.6 mA		
	2-wire $\sim\overline{---}$	1.5 mA		
Switching capacity	4-wire $\overline{---}$	< 200 mA with overload and short-circuit protection		
	2-wire $\overline{---}$	< 100 mA with overload and short-circuit protection		
	2-wire $\sim\overline{---}$	$\sim$ : 5...300 mA (1) $\overline{---}$ : 5...200 mA (1)		
Voltage drop, closed state	4-wire $\overline{---}$	< 2 V		
	2-wire $\overline{---}$	< 4.2 V		
	2-wire $\overline{---}/\sim$	< 5.5 V		
Maximum switching frequency		Flush mountable: $\overline{---}$ 300 Hz, $\sim$ 25 Hz Non flush mountable: $\overline{---}$ 150 Hz, $\sim$ 25 Hz		
Delays	First-up	7 ms (3-wire and 4-wire $\overline{---}$ ), 20 ms (2-wire $\overline{---}$ and 2-wire $\overline{---}/\sim$ )		
	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) These sensors are supplied without a cable gland. An adaptable PG 13.5 cable gland is available (reference **XSZPE13**). Accessories are available for connection to an M12 or 7/8"-16UN connector which can be added to the PG 13.5 sensor. Please consult our Customer Care Centre.

(4) 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.