

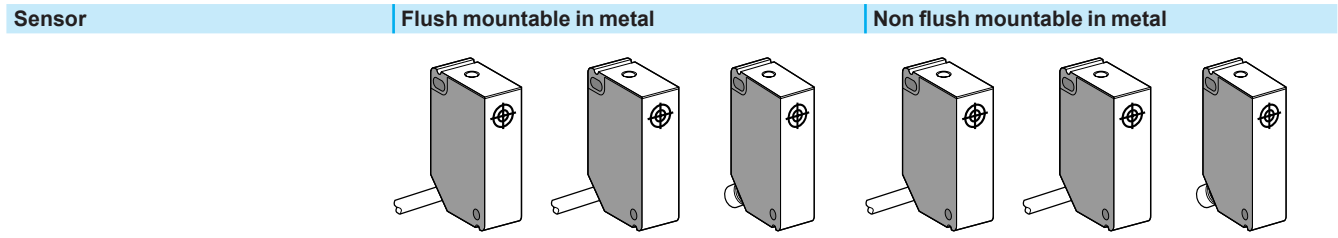
Inductive proximity sensors

XS range, Application

For assembly, packaging and light material handling

Plastic case, 12 x 26 x 40 mm

DC supply, solid-state output



Nominal sensing distance (Sn)	2 mm	4 mm
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References							
3-wire $\overline{\text{---}}$	PNP NO	XS7G12PA140	–	XS7G12PA140S	XS8G12PA140	–	XS8G12PA140S
	NPN NO	XS7G12NA140	–	XS7G12NA140S	XS8G12NA140	–	XS8G12NA140S
4-wire $\overline{\text{---}}$ (complementary outputs)	PNP NO + NC	–	XS7G12PC440	–	–	XS8G12PC440	–
	NPN NO + NC	–	XS7G12NC440	–	–	XS8G12NC440	–
Weight (kg)		0.100	0.100	0.030	0.100	0.100	0.030

Characteristics							
Product certifications	CSA, UL, CE						
Connection	Pre-cabled	3 x 0.34 mm ² , length 2 m (1)	4 x 0.34 mm ² , length 2 m (1)	–	3 x 0.34 mm ² , length 2 m (1)	4 x 0.34 mm ² , length 2 m (1)	–
	Connector	–	–	M8	–	–	M8
Operating zone	0...1.6 mm			0...3.2 mm			
Repeat accuracy	≤ 10 % of Sr						
Differential travel	3...20 % of Sr						
Degree of protection	IP 67						
Storage temperature	- 40...+ 85 °C						
Operating temperature	- 25...+ 70 °C						
Materials	Case: PBT, cable: PVC						
Vibration resistance Conforming to IEC 60068-2-6	25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)						
Shock resistance Conforming to IEC 60068-2-27	50 gn, duration 11 ms						
Output state indication	Yellow LED (on top of case)						
Rated supply voltage	$\overline{\text{---}}$ 12...24 V	$\overline{\text{---}}$ 12...48 V	$\overline{\text{---}}$ 12...24 V	$\overline{\text{---}}$ 12...24 V	$\overline{\text{---}}$ 12...48 V	$\overline{\text{---}}$ 12...24 V	$\overline{\text{---}}$ 12...24 V
Voltage limits (including ripple)	$\overline{\text{---}}$ 10...30 V	$\overline{\text{---}}$ 10...58 V	$\overline{\text{---}}$ 10...30 V	$\overline{\text{---}}$ 10...30 V	$\overline{\text{---}}$ 10...58 V	$\overline{\text{---}}$ 10...30 V	$\overline{\text{---}}$ 10...30 V
Current consumption, no-load	≤ 10 mA						
Switching capacity	0...100 mA (2)	0...200 mA (2)	0...100 mA (2)	0...100 mA (2)	0...200 mA (2)	0...100 mA (2)	0...100 mA (2)
Voltage drop, closed state	≤ 1.8 V	≤ 2.6 V	≤ 1.8 V	≤ 1.8 V	≤ 2.6 V	≤ 1.8 V	≤ 1.8 V
Maximum switching frequency	≤ 2 kHz			≤ 1 kHz			
Delays	First-up	≤ 4 ms					
	Response	≤ 0.5 ms					
	Recovery	≤ 1 ms					

(1) Sensors available with other cable lengths:

Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.120 kg
10 m	L2	0.320 kg

Example: sensor **XS7G12PA140** with 5 m long cable becomes **XS7G12PA140L1**.

(2) With overload and short-circuit protection