

XS Tubular, Inductive Proximity Sensors

12 mm Diameter, Universal Standard Length

Telemecanique
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FOR CURRENT INFORMATION

17 SOLID STATE SENSORS

DC



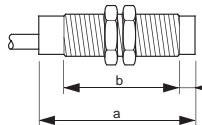
Nominal Sensing Distance	Circuit Type	Output Mode	Max. Load mA	Operating Frequency Hz	Voltage limit (including ripple) DC	Voltage drop (across switch), closed state	Current consumption (no load) mA	Residual (leakage) current, open state mA	On/Off delay	Power Up delay	Dimensions a, b, c	SCP	Catalog Number	Price
Nickel plated brass case														
Shielded, 2m (6.6') cable														
2mm	2-wire	N.O. ★	1.5-100	800	10 to 58 V	5.2V	—	0.6	0.5 ms	5 ms	50, 42, —	Yes	XS1M12DA210	\$79.
2mm	PNP	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	50, 42, —	Yes	XS1M12PA370	75.
2mm	NPN	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	50, 42, —	Yes	XS1M12NA370	75.
2mm	PNP/NPN	N.O./N.C.	200	5000	10 to 58 V	2.6V	10	—	0.1 ms	5 ms	50, 42, —	Yes	XS1M12KP340	85.
Shielded, connector - micro style DC														
4mm	2-wire	N.O. ★	1.5-100	4000	10 to 58 V	5.2V	—	0.6	0.5 ms	5 ms	61, 40, —	Yes	XS1M12DA210D	83.
2mm	PNP	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	61, 40, —	Yes	XS1M12PA370D	75.
2mm	NPN	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	61, 40, —	Yes	XS1M12NA370D	75.
2mm	PNP/NPN	N.O./N.C.	200	5000	10 to 58 V	2.6V	10	—	0.1 ms	5 ms	61, 40, —	Yes	XS1M12KP340D	85.
Shielded, connector - micro style DC - 0.8 m (2.6 ft) pigtail														
2mm	2-wire	N.O. ★	1.5-100	4000	10 to 58 V	5.2V	—	0.6	0.5 ms	5 ms	50, 42, —	Yes	XS1M12DA210LD	117.
Shielded, connector - mini style - 0.8 m (2.6 ft) pigtail														
2mm	2-wire	N.O. ★	1.5-100	4000	10 to 58 V	5.2V	—	0.6	0.5 ms	5 ms	50, 42, —	Yes	XS1M12DA210LA	120.
Non-shielded, 2m (6.6') cable														
4mm	PNP	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	50, 37, 5	Yes	XS2M12PA370	78.
4mm	NPN	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	50, 37, 5	Yes	XS2M12NA370	78.
4mm	PNP+NPN	N.O./N.C.	200	5000	10 to 38 V	2.6V	10	—	0.1 ms	5 ms	50, 37, 5	Yes	XS2M12KP340	90.
Non-shielded, connector - micro style D														
4mm	PNP	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	61, 35, 5	Yes	XS2M12PA370D	78.
4mm	NPN	N.O. ★	200	5000	10 to 58 V	2V	10	—	0.1 ms	5 ms	61, 35, 5	Yes	XS2M12NA370D	78.
4mm	PNP+NPN	N.O./N.C.	200	5000	10 to 38 V	2.6V	10	—	0.1 ms	5 ms	61, 35, 5	Yes	XS2M12KP340D	90.

AC/DC



Nominal Sensing Distance	Output Mode	Operating Frequency Hz		Voltage limit (including ripple) VAC/VDC	Voltage drop (across switch), closed state	Maximum load current mA	Residual (leakage) current, open state mA		On/Off delay	Power Up delay	Dimensions a, b, c	SCP	Catalog Number	Price
		AC	DC				24 VAC/VDC	120 VAC/VDC						
Nickel plated brass case														
Shielded, 2m (6.6') cable														
2mm	N.O. ★	25	4000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	50, 42, —	no	XS1M12MA230	98.
2mm	N.O. ★	25	4000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	70 ms	50, 42, —	yes	XS1M12MA250	122.
Shielded, 2m (6.6') cable - EXTENDED RANGE														
4mm	N.O.	25	1000	20 to 264 V	5.5V	200	0.8	1.5	0.5 ms/0.2ms	20 ms	50, 42, —	no	XS1M12MA239	164.
Shielded, connector - micro style AC														
2mm	N.O. ★	25	4000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	61, 40, —	no	XS1M12MA230K	104.
Shielded, connector - micro style AC - EXTENDED RANGE														
4mm	N.O.	25	1000	20 to 264 V	5.5V	200	0.8	1.5	0.5 ms/0.2ms	20 ms	61, 40, —	no	XS1M12MA239K	164.
Non-shielded, 2m (6.6') cable														
4mm	N.O. ★	25	3000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	50, 37, 5	no	XS2M12MA230	104.
4mm	N.O. ★	25	3000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	70 ms	50, 37, 5	yes	XS2M12MA250	129.
Non-shielded, connector - micro style AC														
4mm	N.O. ★	25	3000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	61, 35, 5	no	XS2M12MA230K	111.
Plastic case														
Shielded, 2m (6.6') cable														
2mm	N.O. ★	25	4000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	50, 42, —	no	XS3P12MA230	96.
Non-shielded, 2m (6.6') cable														
4mm	N.O. ★	25	3000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	50, 37, 5	no	XS4P12MA230	101.
Shielded, connector - micro style														
2mm	N.O. ★	25	4000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	61, 42, —	no	XS3P12MA230K	101.
Non-shielded, connector - micro style														
4mm	N.O. ★	25	3000	20 to 264 V	5.5V	200	0.8	1.5	0.2 ms/0.2 ms	40 ms	61, 35, 5	no	XS4P12MA230K	108.

★ To order a normally closed (N.C.) version change the A to B, example: XS1M12PA260 to XS1M12PB260.



Dimensions:
a = overall length (mm)
b = threaded section (mm)
c = for non-shielded sensors (mm)

Wiring Diagrams Page 17-75
Application Information Page 17-78

Accessories Page 17-69
Connectors Page 18-6, 8, 9

For complete sensor information, see Sensors Catalog 9006CT2000 or D-Fax™ number 1582.

To convert mm to inches, divide by 25.4.

