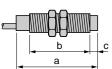
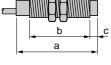
Cylindrical type, M12 x 1 threaded Metal case (brass), form A a.c. or d.c. supply

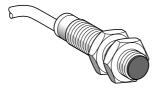
Accessories: page 3/0

References, characteristics, dimensions, schemes

Flush mountable in metal



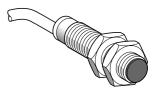




AC/DC

2 mm





Lengths (mm): a = Overall a = 50b = Threaded section b = 42 a = 61 (X\$1-M12M●230K) a = 66 (X\$1-M12M●250K) b = 40

AC/DC

a = 50b = 42

AC

c = For non flush mounting sensors Nominal sensing distance (Sn)

2 mm 2 mm

References

		1		
2-wire \sim or $=$	NO	XS1-M12MA230	XS1-M12MA230K	_
	NC	XS1-M12MB230	XS1-M12MB230K	_
2-wire \sim or $=$	NO	XS1-M12MA250	XS1-M12MB250K	_
(protected against short-circuits)	NC	XS1-M12MB250	XS1-M12MB250K	_
2-wire ∼	NO	_	_	XS1-M12FA260
	NC	_	_	XS1-M12FB260
	110			X01-W121 B200
Weight (kg)		0.075	0.025	0.075

Characteristics

Connection	Pre-cabled, 2 x 0.34 mm ² , L = 2 m (1)	Connector (types 13 and 14) (2)	Pre-cabled, 2 x 0.34 mm ² , L = 2 m (1)	
Degree of protection	IP 68	Dpg. on connector (see page 3/5)	IP 68	
Operating zone	01.6 mm		01.6 mm	
Repeat accuracy	3 % of Sr		3 % of Sr	
Differential travel	115 % of Sr		115 % of Sr	
Operating temperature	- 25+ 80 °C		- 25 %+ 80 % °C	
Output state indication	LED, annular	LED, 4 viewing ports at 90°	LED, annular	
		•		
Rated supply voltage	~ 24240 V (50/60 Hz) or <u></u> 242	10 V	~ 24240 V (50/60 Hz)	
Voltage limits (including ripple)	\sim or <u>—</u> 20264 V		∼ 20264 V	
Switching capacity	5200 mA (3)	5200 mA (3) (2 A inrush)		
Voltage drop, closed state	≤ 5.5 V	≤ 5.5 V		
Residual current, non protected model	≤ 0.8 mA / 24 V or ≤ 1.5 mA / 120 V		≤ 1.5 mA	
open state protected model	≤ 1.5 mA –			
Current consumption, no-load	-		_	
Maximum switching frequency	(∼) 25 Hz or (<u></u>) 350 Hz	25 Hz		
Delays first-up	≤ 40 or 70 ms (models with short-circuit	≤ 40 ms		
response	≤ 1 ms ≤ 10 ms			
recovery	≤ 2 ms	. 2 ms		
Tecovery	2 Z 1113		≤ 15 ms	

Wiring schemes

2-wire \sim or =, NO or NC output XS1/XS2-M12 •• 230/250/230K/250K





2-wire ∼, NO or NC output

⊥ For connector version sensors

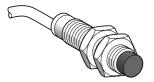
(1) Sensors pre-cabled with	other cable lengths :	
Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.075 kg
10 m	L2	0.200 kg

Example: sensor XS1-M12MA230 with 5 m cable becomes XS1-M12MA230L1

(2) The type numbers refer to suitable female extension cables, see page 3/5.

(3) For the sensors not incorporating overload or short-circuit protection, it is recommended that a 0.8 A "quick-blow" fuse be connected in series with the load. See page 3/0.

Non flush mountable in metal





4 mm	4 mm

XS2-M12MA230	XS2-M12MA230K
XS2-M12MB230	XS2-M12MB230K
XS2-M12MA250	_
XS2-M12MB250	_
_	_
_	_
0.075	0.025

Pre-cabled, 2 x 0.34 mm ² , length 2 m (1)	Connector (types 13 and 14) (2)
IP 68	Depending on connector (see page 3/5)
03.2 mm	
3 % of Sr	
115 % of Sr	
- 25+ 80 °C	
LED, annular	LED, 4 viewing ports at 90°
~ 24240 V (50/60 Hz) or <u>—</u> 24210 V	
\sim or $=$ 20264 V	
- (a)	
5200 mA (3)	
≤ 5.5 V	
≤ 0.8 mA / 24 V or ≤ 1.5 mA / 120 V	
≤ 1.5 mA	
- () 07 H () 000 H	
(~) 25 Hz or (<u>—</u>) 300 Hz	
≤ 40 or 70 ms (models with short-circuit protection)	
≤1 ms	
≤ 2 ms	

Setting-up

Minimum mounting distances (mm)	Side by side	Face to face	Facing a metal object	Mounted in a metal support
,	e	2 e - 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	₽ <u> </u>	d
XS1 flush mountable in metal	e ≥ 4	e > 24	e > 6	d ≥ 12. h ≥ 0

XS1 flush mountable in metal	e ≥ 4	e ≥ 24	e ≥ 6	$d \ge 12, h \ge 0$	
XS2 non flush mountable in metal	e ≥ 16	e ≥ 48	e ≥ 12	d ≥ 36, h ≥ 8	
Fixing nut tightening torque :	< 15 N.m				

Other versions Inductive proximity sensors specifically designed for other ambient operating temperatures. Please consult your local Customer support centre.