

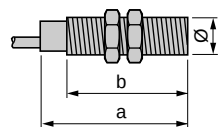
Capacitive proximity sensors

For detection of insulated materials
Cylindrical type, metal case
d.c. or a.c. supply

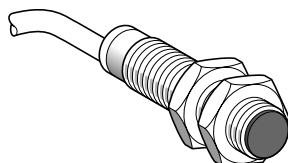
Accessories :
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References, characteristics, dimensions, schemes, sensitivity adjustment

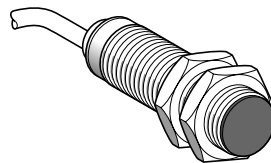
Flush mountable in support



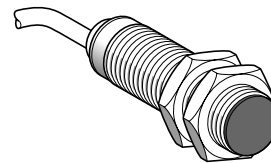
Lengths (mm) :
a = Overall
b = Threaded section



a = 50
b = 42
Ø = M12 x 1
DC



a = 60
b = 51.5
Ø = M18 x 1
DC



a = 60
b = 51.5
Ø = M18 x 1
AC

Nominal sensing distance (Sn)	2 mm	5 mm	5 mm
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References

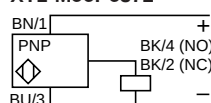
3-wire ---	PNP	NO	XT1-M12PA372	XT1-M18PA372	—
		NC	XT1-M12PB372	XT1-M18PB372	—
	NPN	NO	XT1-M12NA372	XT1-M18NA372	—
2-wire ~		NO	—	—	XT1-M18FA262
		NC	—	—	XT1-M18FB262
Weight (kg)			0.065	0.120	0.120

Characteristics

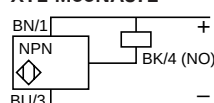
Connection	Pre-cabled, 3 x 0.34 mm², length = 2 m		Pre-cabled, 2 x 0.34 mm², length = 2 m
Degree of protection	IP 67		
Operating zone	0...1.44 mm	0...3.6 mm	
Repeat accuracy	≤ 0.1 of Sr		
Differential travel	≤ 0.2 of Sr		
Operating temperature	0...+ 50 °C with 60% relative humidity	- 25...+ 70 °C	
Output state indication	LED (yellow)		
Rated supply voltage	≡ 12...24 V		~ 24...240 V (50/60 Hz)
Voltage limits (including ripple on d.c.)	≡ 10...38 V		~ 20...264 V (50/60 Hz)
Switching capacity	0...300 mA with overload and short-circuit protection		5...300 mA
Voltage drop, closed state	≤ 2 V		≤ 5.5 V
Residual current, open state	–		1.5 mA / 120 V
Current consumption, no-load	≤ 10 mA		–
Maximum switching frequency	100 Hz		25 Hz
Delays	first-up	≤ 30 ms	≤ 300 ms
	response	≤ 5 ms	≤ 50 ms
	recovery	≤ 5 ms	≤ 50 ms

Wiring schemes, sensitivity adjustment

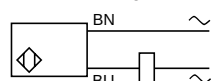
3-wire ---, NO or NC output
XT1-M●●P●372



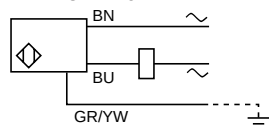
XT1-M●●NA372



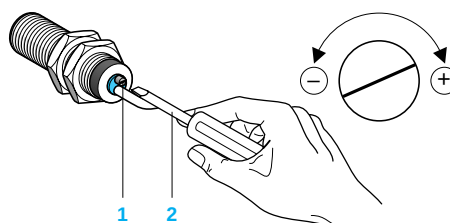
2-wire ~, NO or NC output
XT1-M●●F●262



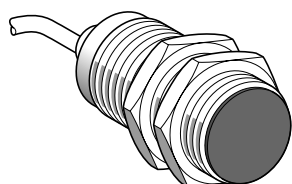
XT1-L32F●262



Sensitivity adjustment (not applicable to XT1-M12●●●●● sensors)

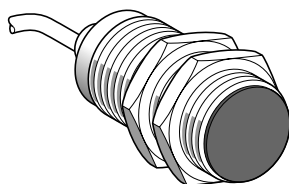


- 1 Sensitivity adjustment potentiometer
- 2 Adjustment using screwdriver



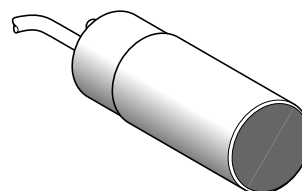
a = 60
b = 51.5
Ø = M30 x 1.5
DC

10 mm



a = 60
b = 51.5
Ø = M30 x 1.5
AC

10 mm



a = 80
b = 60
Ø = 32 plain
AC

15 mm

XT1-M30PA372	—	—
XT1-M30PB372	—	—
XT1-M30NA372	—	—
—	XT1-M30FA262	XT1-L32FA262
—	XT1-M30FB262	XT1-L32FB262
0.205	0.205	0.300

Pre-cabled, 3 x 0.34 mm ² , length = 2 m	Pre-cabled, 2 x 0.34 mm ² , length = 2 m	Pre-cabled, 3 x 0.34 mm ² , length = 2 m
IP 67		IP 63
0...7.2 mm ≤ 0.1 of Sr ≤ 0.2 of Sr		0...10.8 mm
- 25...+ 70 °C LED (yellow)		
≡ 12...24 V ≡ 10...38 V	~ 24...240 V (50/60 Hz) ~ 20...264 V (50/60 Hz)	~ 110...220 V (50/60 Hz) ~ 90...250 V (50/60 Hz)
0...300 mA with overload and short-circuit protection	5...300 mA	15...250 mA (Ue = 110 V) 15...150 mA (Ue = 220 V)
≤ 2 V	≤ 5.5 V	≤ 9 V
—	≤ 1.5 mA / 120 V	≤ 7 mA
≤ 10 mA	—	—
100 Hz	25 Hz	10 Hz
≤ 30 ms	≤ 300 ms	≤ 300 ms
≤ 5 ms	≤ 50 ms	≤ 50 ms
≤ 5 ms	≤ 50 ms	≤ 15 ms

Setting-up

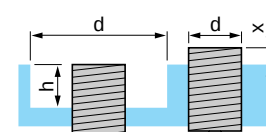
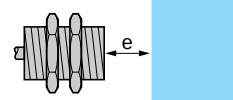
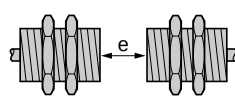
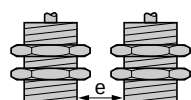
Minimum mounting distances (mm)

Side by side

Face to face

Facing a metal object

Mounted in support



XT1-M12 flush mountable	e ≥ 0	e ≥ 15	e ≥ 15	d ≥ 12, h ≥ 0, x = 0
XT1-M18 flush mountable	e ≥ 0	e ≥ 30	e ≥ 30	d ≥ 18, h ≥ 0, x = 0
XT1-M30 flush mountable	e ≥ 0	e ≥ 60	e ≥ 60	d ≥ 30, h ≥ 0, x = 0
XT1-L32 flush mountable	e ≥ 0	e ≥ 100	e ≥ 100	d ≥ 32, h ≥ 0, x ≥ 2
Fixing nut tightening torque :	XT1-M12 : ≤ 10 N.m, XT1-M18 : ≤ 25 N.m, XT1-M30 : ≤ 40 N.m			

Other versions

Please consult your Regional Sales Office.