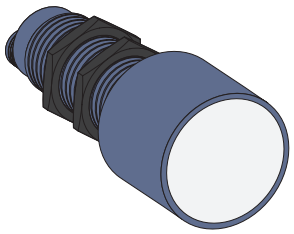
Ultrasonic Sensor M30



http://qr.tesensors.com/XX0003

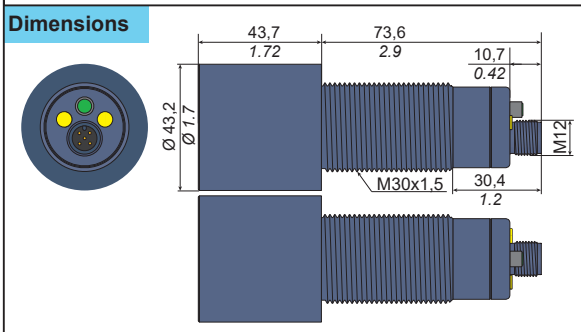
⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

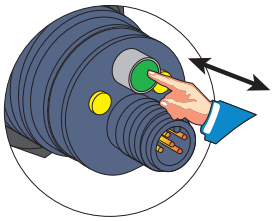
Do not use this product to detect objects within the deadband (blind zone) or outside the sensing window.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

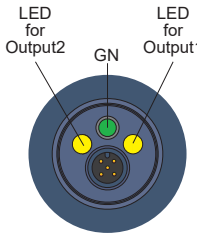
Dimensions



Teach button

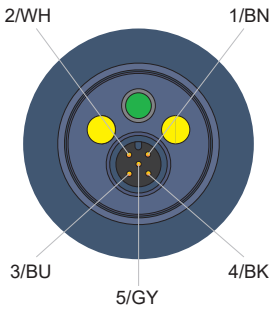


LEDs



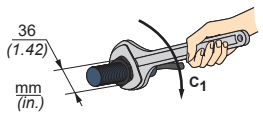
GN: Green (Echo status)
LED Output 1: Output 1 status
LED Output 2: Output 2 status

Connectors wiring

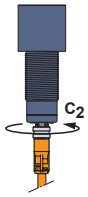


Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	Digital Output
③	BU: Blue	0 Vdc
④	BK: Black	Analog Output
⑤	GY: Grey	Synchronization

Tightening torque

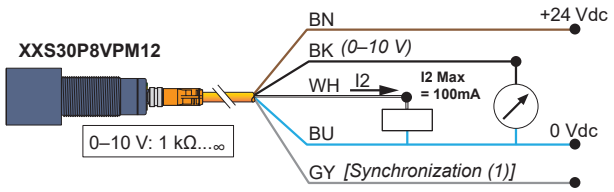


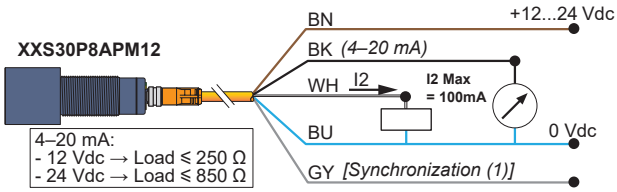
C_1 Max. = 3 Nm / *26.6 lb.in.*



$C_2 \leq 2$ Nm / *(17.7 lb.in.)*

Wiring diagrams

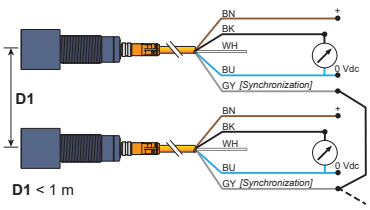




Sensor type	0-10 V	4-20 mA
Rated supply voltage	24 Vdc Min = 14 Vdc Max = 30 Vdc	12...24 Vdc Min = 10 Vdc Max = 30 Vdc
	with reverse polarity protection	

Note :
(1): See synchronization section

Synchronization (side by side application)



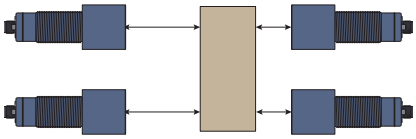
Synchronization operation

Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together. To synchronize more than 8 sensors a PLC output can be used (the pins no.5 must be simultaneously driven by the rising edge of a pulse).

NOTE (1): The pulse must be at a high level of 12 to 24 Vdc and a low level of 0 to 2Vdc. All sensors should be the same model and have the same cycle time setting. The high pulse width should be 1 ms, and the low should be at be at least as long as the sensor cycle time setting (Sn = 8 m: default cycle time = 125 ms).

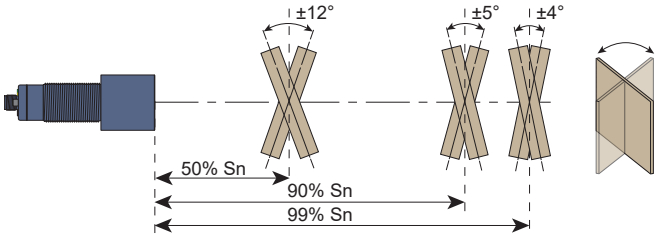
NOTE (2): When the pin no.5 is at low level or at high level, object sensing is suspended and the sensor output holds the last valid output state before suspension.

Multiplexing (face to face application)



This function can be used to avoid disturbances when operating sensors face to face. A unique address must be assigned to each sensor (or group, Up to a maximum of 8 sensors) with the use of the XX Configuration Software (prior to wiring the sensors), and all pin no.5 (grey) wires must be connected together.
For sequencing with a PLC, please contact your local Telemecanique Sensors Technical Support Group.

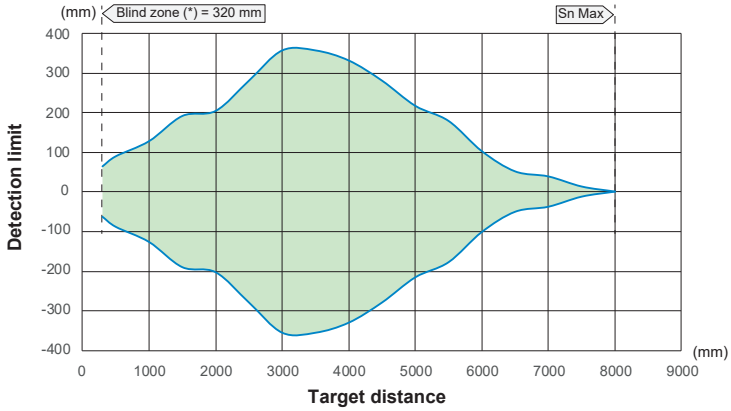
Tilt angle



1000 x 1000 mm / *39.4 x 39.4 in.*
Stainless steel plate

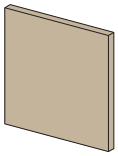
Detection curves for different objects

Detection curve with 100 x 100 mm square target

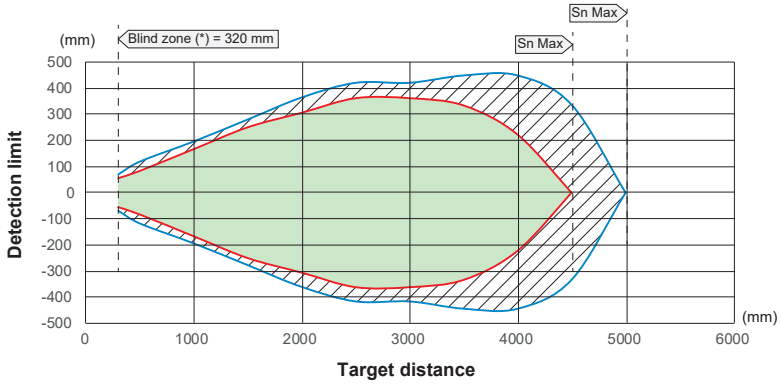


(*) : Blind zone

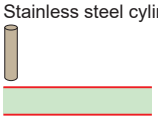
100 x 100 mm / *3.94 x 3.94 in.*
Stainless steel plate



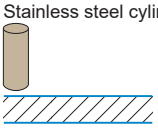
Detection curve with round bar



Ø 10 mm / *0.394 in.*
Stainless steel cylinder

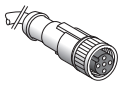
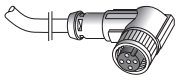


Ø 25 mm / *0.984 in.*
Stainless steel cylinder

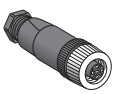


Wiring accessory

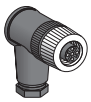
Cables

5-pin, 5-wire (for synchronization)	 **XZCPV11V12L2** (2 m / *6.6 ft*) **XZCPV11V12L5** (5 m / *16.4 ft*) **XZCPV11V12L10** (10 m / *32.8 ft*)	 **XZCPV12V12L2** (2 m / *6.6 ft*) **XZCPV12V12L5** (5 m / *16.4 ft*) **XZCPV12V12L10** (10 m / *32.8 ft*)
5-pin, 4-wire (no synchronization)	**XZCP1141L2** (2 m / 6.6 ft) **XZCP1141L5** (5 m / 16.4 ft) **XZCP1141L10** (10 m / 32.8 ft)	**XZCP1241L2** (2 m / 6.6 ft) **XZCP1241L5** (5 m / 16.4 ft) **XZCP1241L10** (10 m / 32.8 ft)

M12 connectors



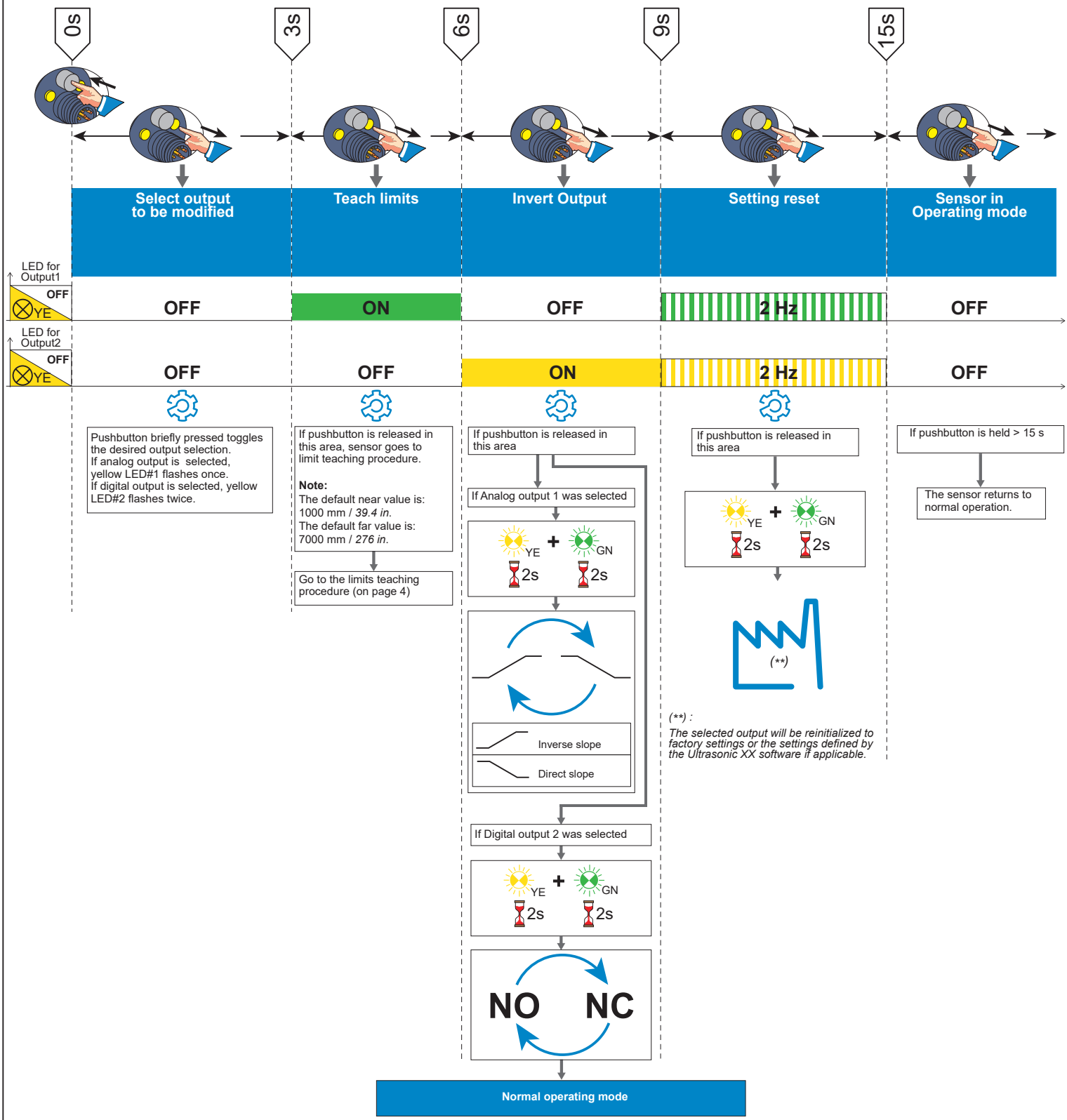
XZCC12FDM50B



XZCC12FCM50B

XXS30P8VPM12 / XXS30P8APM12

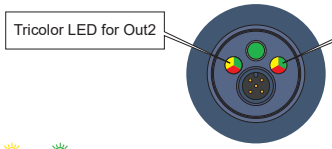
Sensor setting with teach procedure



Legend:

OFF ON Flashing

GN: Green YE: Yellow RD: Red



Processing

Setting error during teach process.
Short circuit or overcurrent on OUT2 during normal operation.

1 Near limit

2 Far limit

Press the teach button

Release the teach button

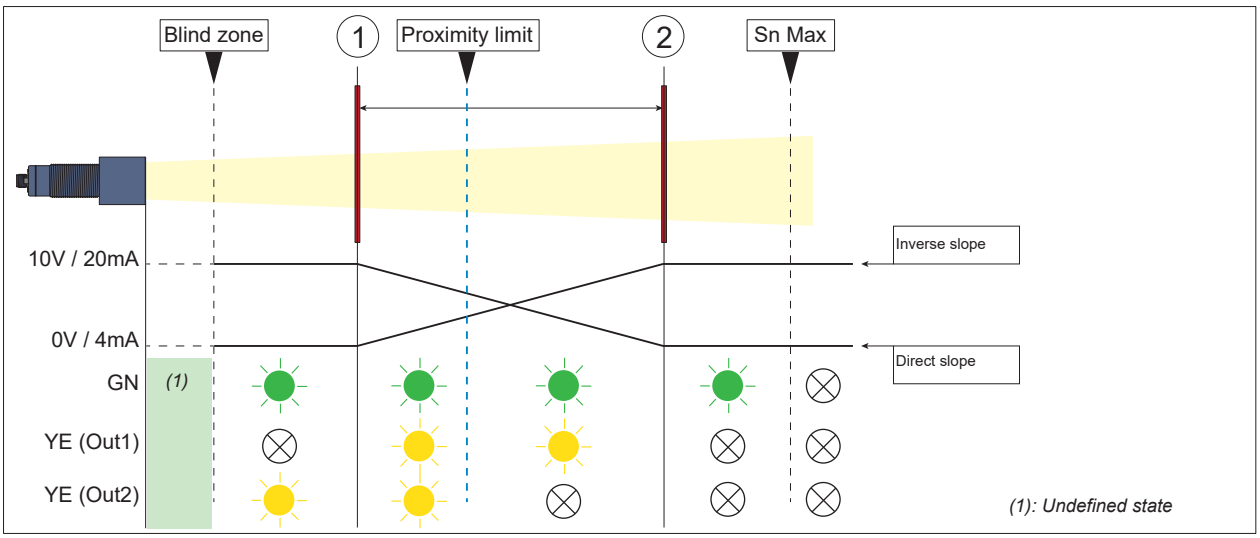
Press and release briefly

Setting

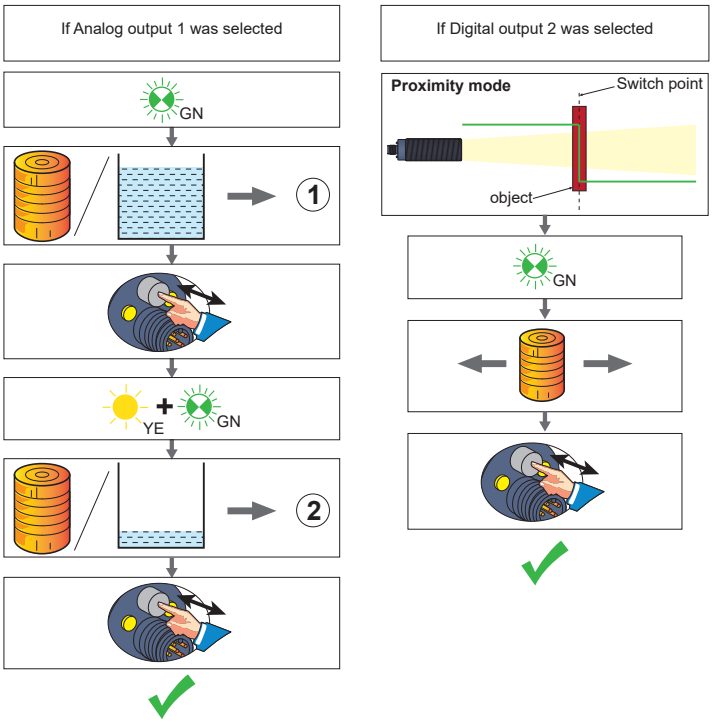
Factory setting (**)

Object

Level



Limits teaching procedure by selected output



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