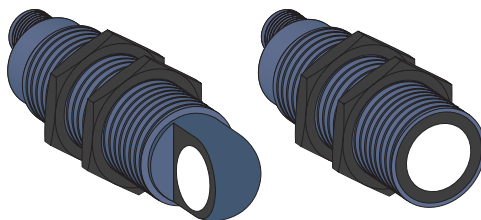


Ultrasonic Sensor M30 - Straight or 90° angled version

Plastic: **XXA30P1•M12**Ni-plated Brass : **XX•30B1•M12**Stainless steel ...: **XX•30S1•M12**

⚠ WARNING

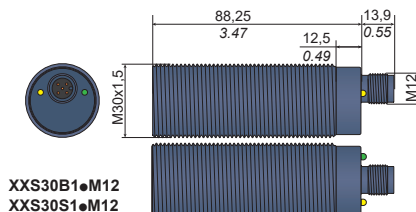
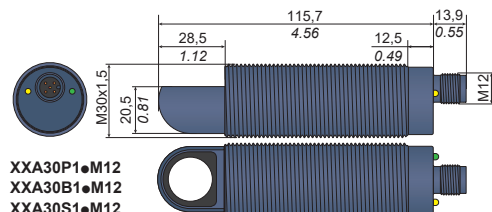
UNINTENDED EQUIPMENT OPERATION

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.

<http://qr.tesensors.com/XX0003>

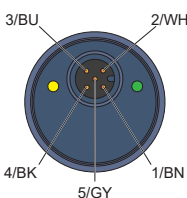
Dimensions



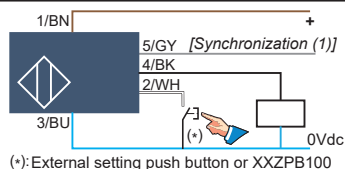
LEDs



Connectors wiring

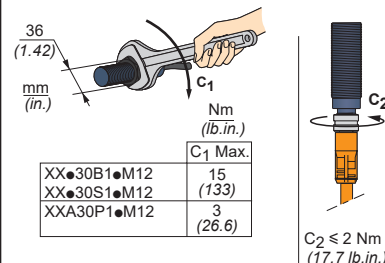


Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	Input teach
③	BU: Blue	0 Vdc
④	BK: Black	Output
⑤	GY: Grey	Synchronization



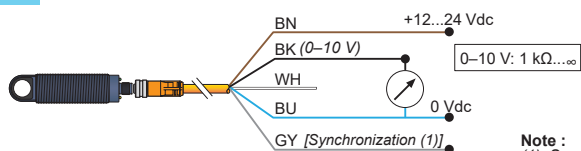
Note :
(1): See synchronization section

Tightening torque

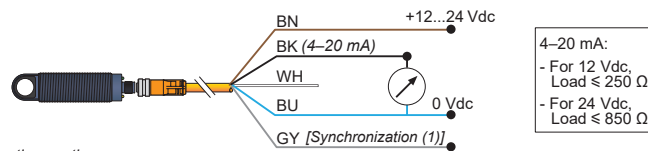


Wiring diagrams

Analog Output



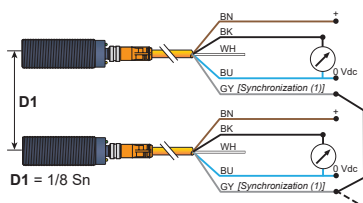
Note :
(1): See synchronization section



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

4-20 mA:
- For 12 Vdc,
Load ≤ 250 Ω
- For 24 Vdc,
Load ≤ 850 Ω

Synchronization (side by side application)



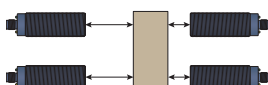
Synchronization operation

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 least as long as the sensor cycle time setting (Sn = 1 m; default cycle time = 15 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)

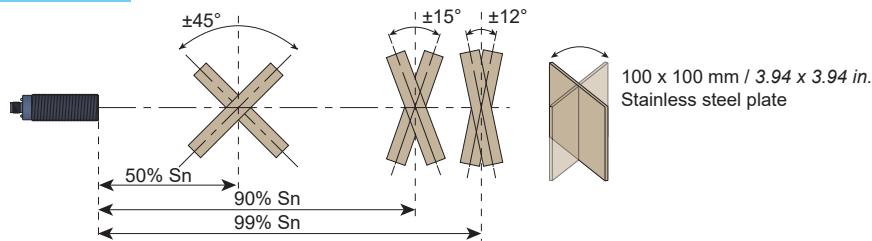


This function can be used to avoid disturbances when operating sensors face to face. A unique address must be assigned to each sensor (or group of sensors) with the use of the XX Configuration Software (prior to wiring the sensors), and all pin no.5 (grey) wires must be connected together. For sequencing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

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

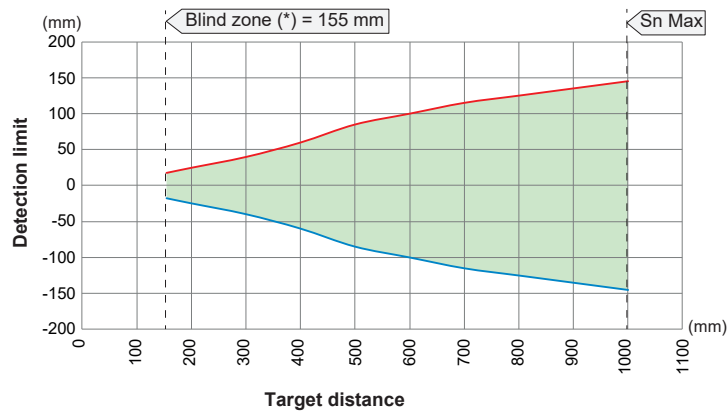
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Tilt angle

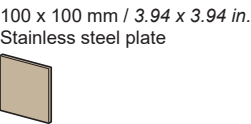


Detection curves for different objects

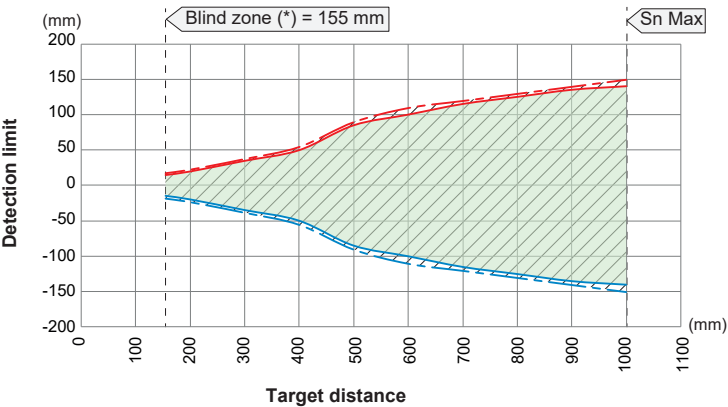
Detection curve with 100 x 100 mm square target



(*) : Blind zone



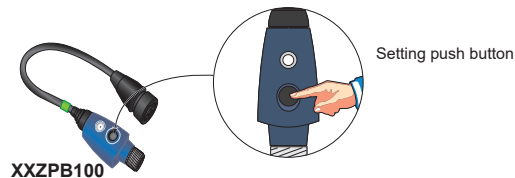
Detection curve with round bar



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)	XZCPV12V12L2 (2 m / 6.6 ft)
XZCPV11V12L5 (5 m / 16.4 ft)	XZCPV12V12L5 (5 m / 16.4 ft)
XZCPV11V12L10 (10 m / 32.8 ft)	XZCPV12V12L10 (10 m / 32.8 ft)

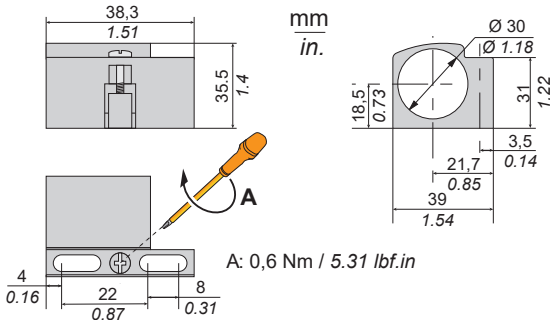
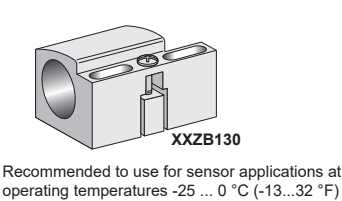
5-pin, 4-wire
(no synchronization)

XZCP1141L2 (2 m / 6.6 ft)	XZCP1241L2 (2 m / 6.6 ft)
XZCP1141L5 (5 m / 16.4 ft)	XZCP1241L5 (5 m / 16.4 ft)
XZCP1141L10 (10 m / 32.8 ft)	XZCP1241L10 (10 m / 32.8 ft)

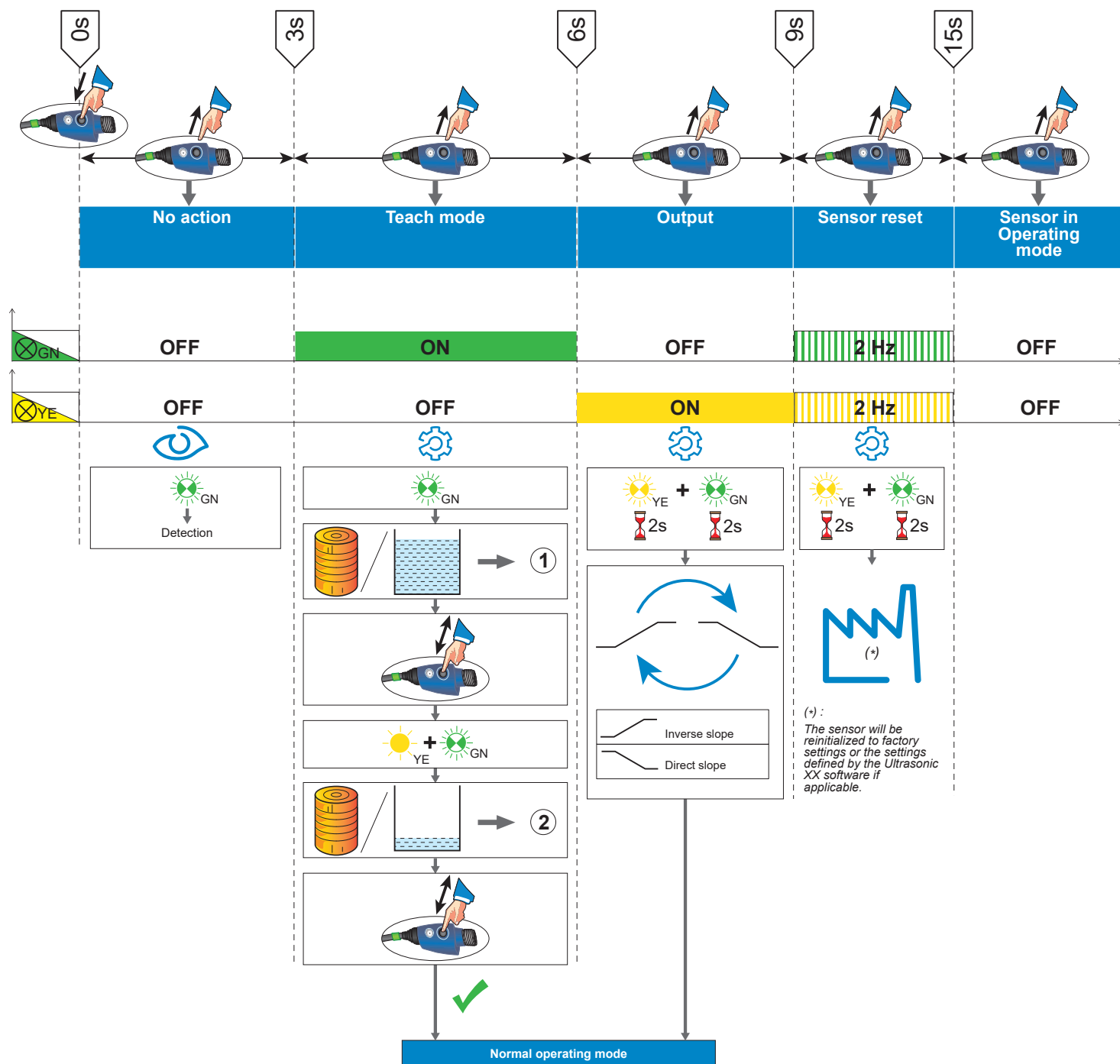
M12 connectors



Mounting accessory



Sensor setting with teach procedure

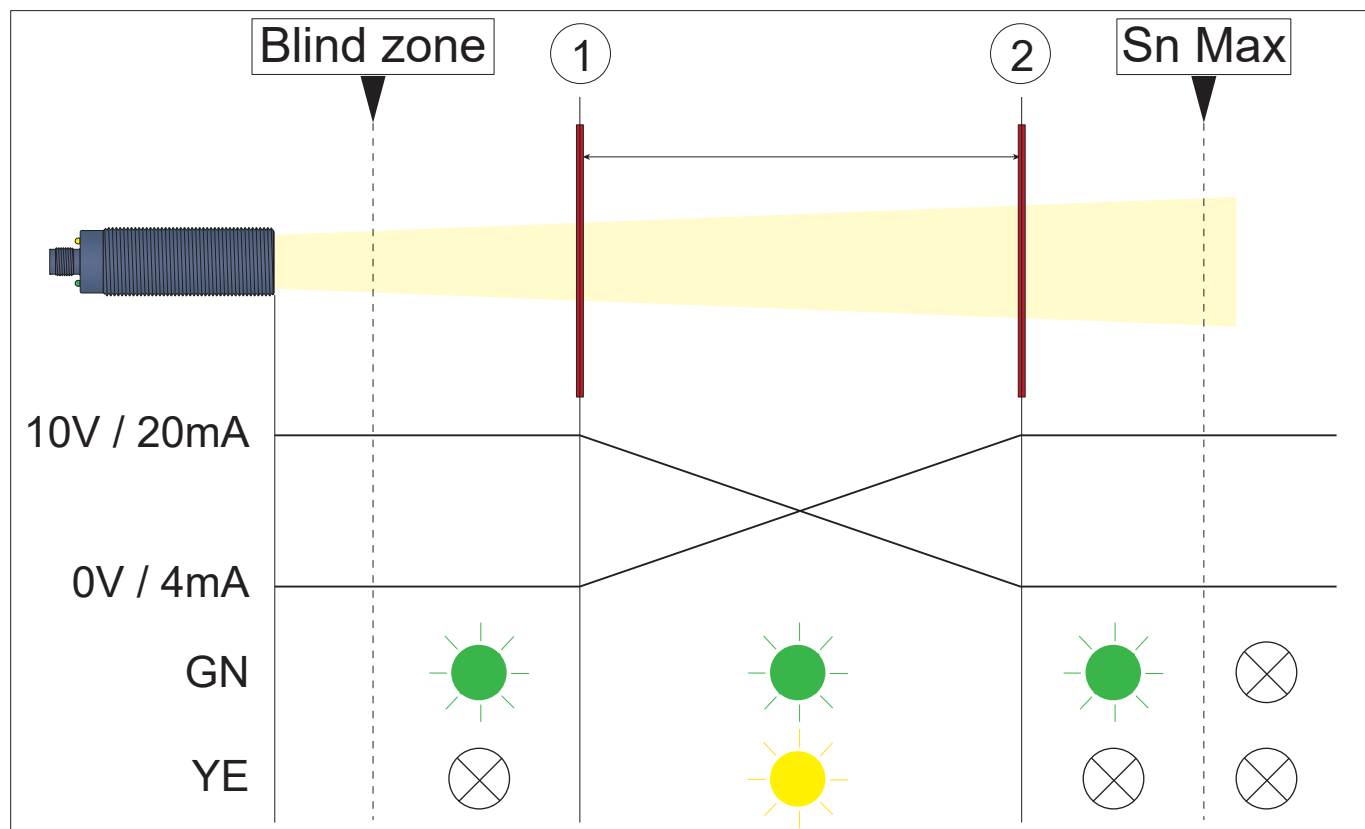


Legend :

- ⊗ OFF
- ON
- ⊗ (flashing) Flashing
- GN: Green
- YE: Yellow
- ☀ + ☀ (flashing) Processing
- ☀ (flashing) Setting error
- ① Near limit
- ② Far limit

- ☑ Press the teach button
- ☑ Release the teach button
- ☑ Press and release briefly
- ⚙ Setting

- ⚡ Factory setting (*)
- 📦 Object
- 📊 Level



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