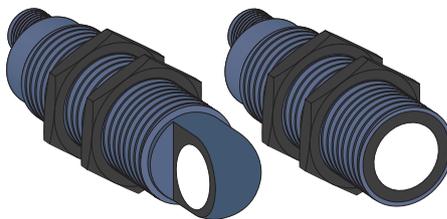


Ultrasonic Sensor M30 - Straight or 90° angled version

- Plastic: **XX●30P2PM12**
- Ni-plated Brass : **XX●30B2PM12**
- Stainless steel ...: **XX●30S2PM12**



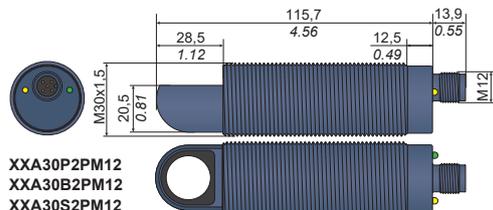
⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

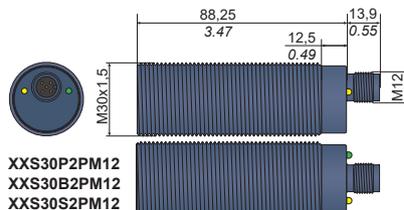
Do not use this product to detect objects within the deadband (blind zone) or outside the sensing window.
 Failure to follow these instructions can result in death, serious injury, or equipment damage.

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

Dimensions

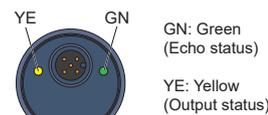


XXA30P2PM12
 XXA30B2PM12
 XXA30S2PM12

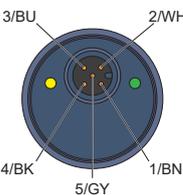


XXS30P2PM12
 XXS30B2PM12
 XXS30S2PM12

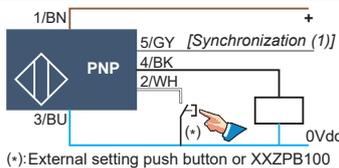
LEDs



Connectors wiring

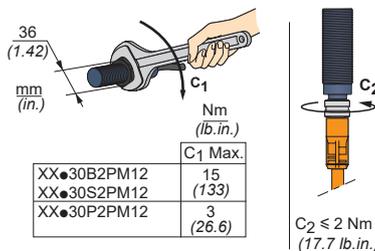


Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	Input teach
③	BU: Blue	0 Vdc
④	BK: Black	Output (PNP)
⑤	GY: Grey	Synchronization



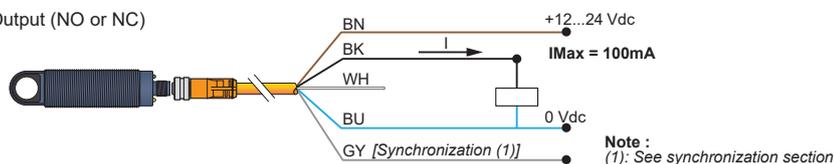
Note :
 (1): See synchronization section

Tightening torque

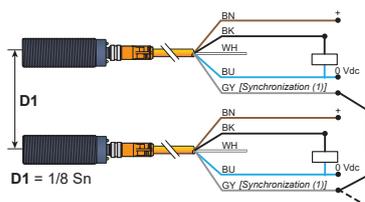


Wiring diagrams

Digital Output (NO or NC)



Synchronization (side by side application)



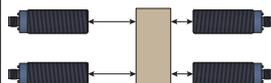
Synchronization operation

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 (default cycle times: 2m sn= 30 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.

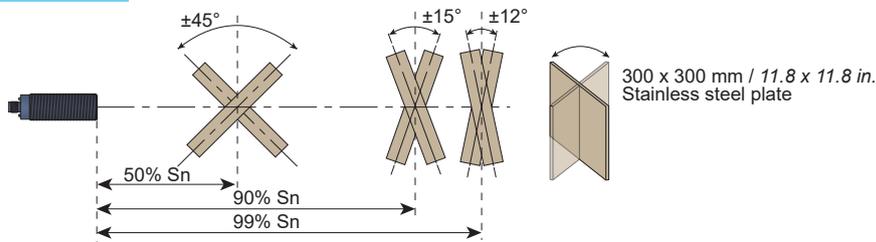
Multiplexing (face to face application)



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.
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Tilt angle

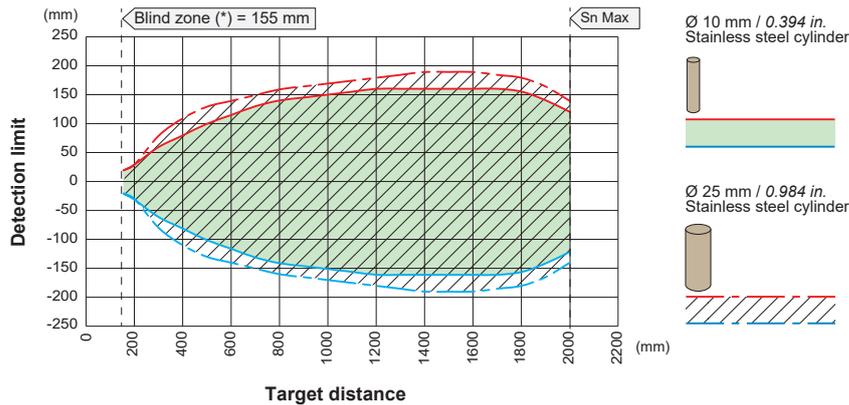


Detection curves for different objects

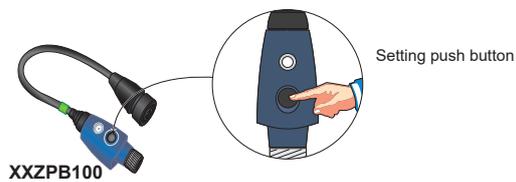
Detection curve with 100 x 100 mm square target



Detection curve with round bar



Wiring accessory

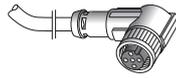


Cables

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

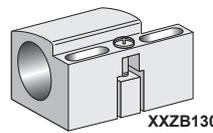


XZCC12FDM50B

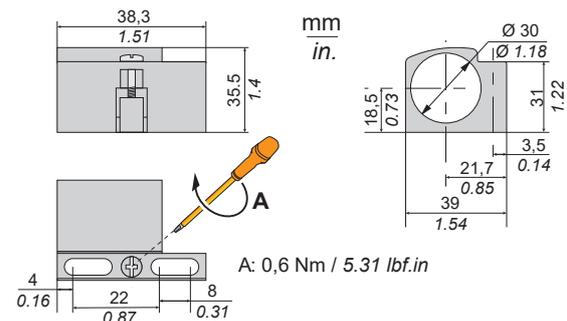


XZCC12FCM50B

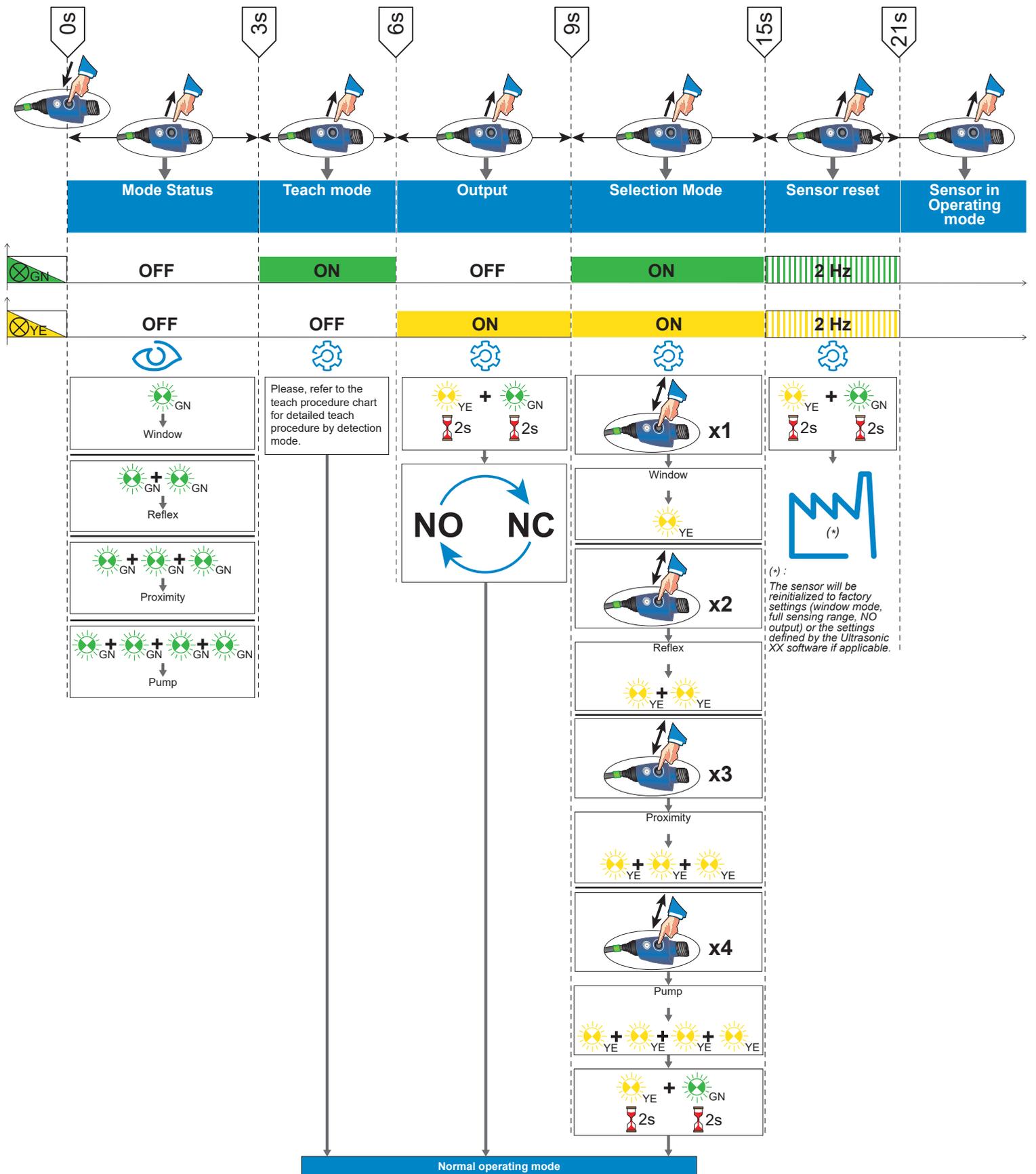
Mounting accessory



Recommended to use for sensor applications at operating temperatures -25 ... 0 °C (-13...32 °F)



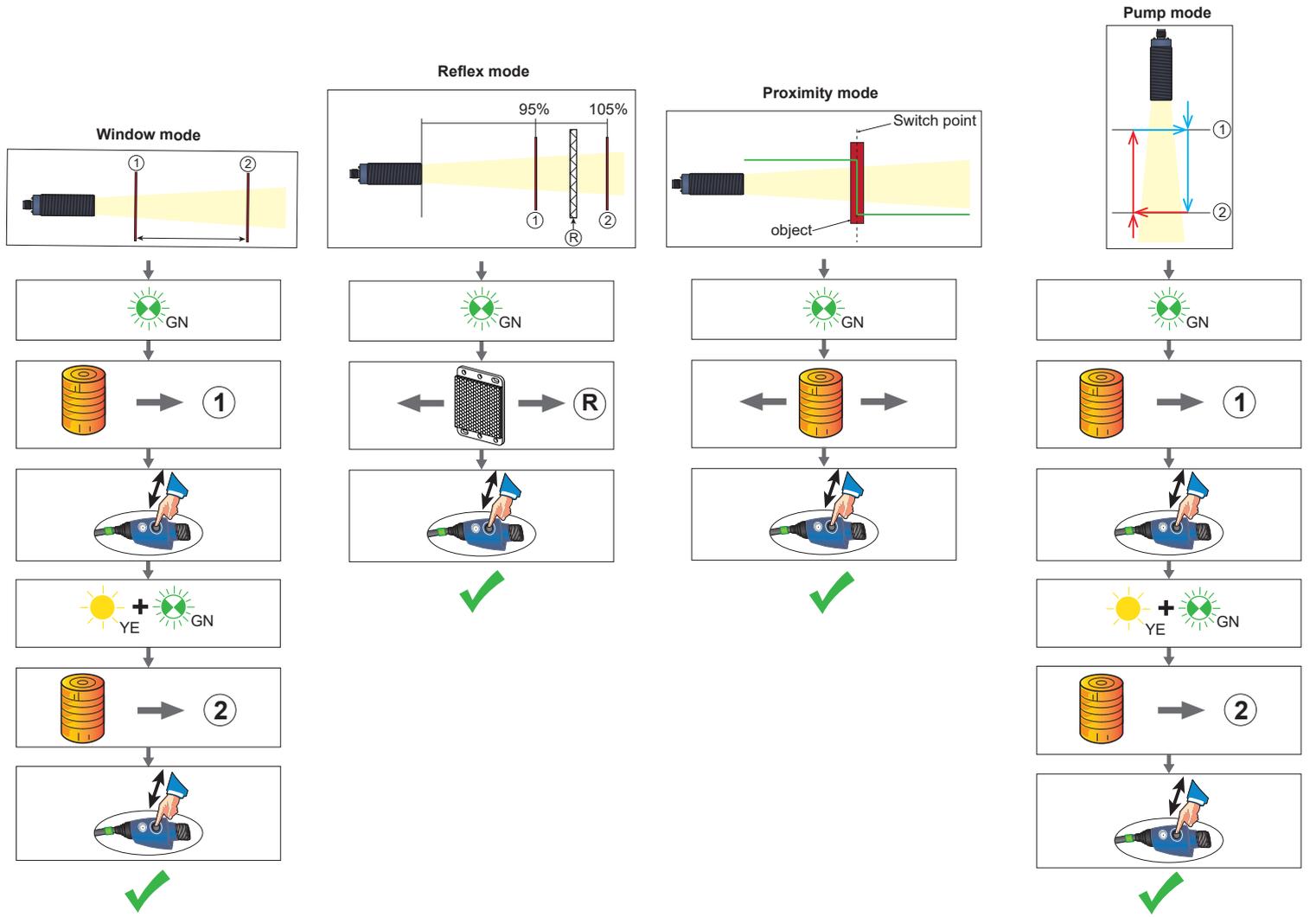
Sensor setting with teach procedure



Legend:

- ⊗ OFF
- ON
- ⚡ Flashing
- GN: Green
- YE: Yellow
- ☀ + 🟢 Processing
- ⌚ 2s Setting error
- ① Near limit
- ② Far limit
- 👉 Press the teach button
- 👈 Release the teach button
- 👉👈 Press and release briefly
- ⚙️ Setting
- 👁️ Visualization
- ⚡ Factory setting (*)
- 📦 Object
- 📡 Reflector

Teaching procedure by detection mode



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