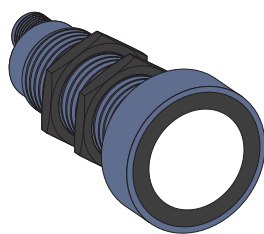


Ultrasonic Sensor M30

Plastic: **XXS30P4PM12**

Ni-plated Brass : **XXS30B4PM12**

Stainless steel ...: **XXS30S4PM12**



⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

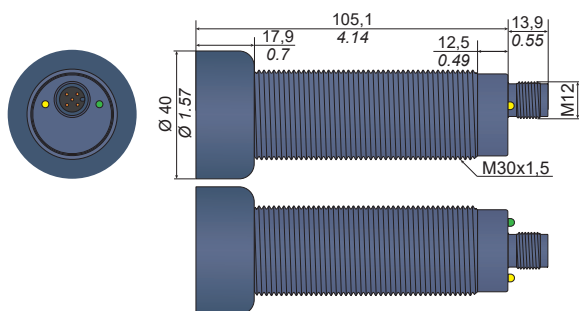
Do not use this product to detect objects within the deadband (blind zone) or outside the sensing window.

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

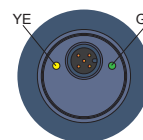
<http://qr.tesensors.com/XX0003>

Dimensions

XXS30P4PM12
XXS30B4PM12
XXS30S4PM12

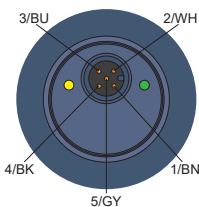


LEDs

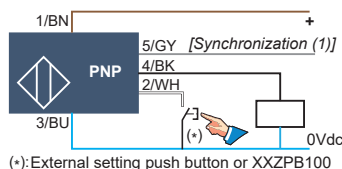


GN: Green
(Echo status)
YE: Yellow
(Output status)

Connectors wiring



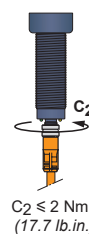
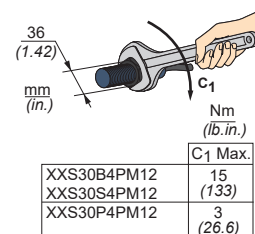
Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	Input teach
③	BU: Blue	0 Vdc
④	BK: Black	Output (PNP)
⑤	GY: Grey	Synchronization



(*): External setting push button or XXZPB100

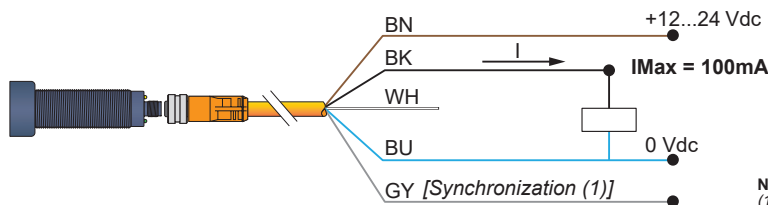
Note :
(1): See synchronization section

Tightening torque



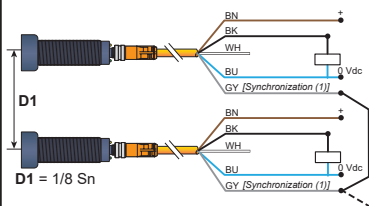
Wiring diagrams

Digital Output (NO or NC)



Note :
(1): See synchronization section

Synchronization (side by side application)



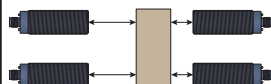
Synchronization operation

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 least as long as the sensor cycle time setting (default cycle times: 4m sn= 60 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.

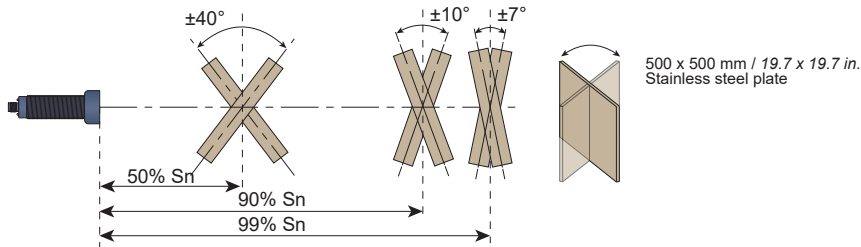
Multiplexing (face to face application)



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.

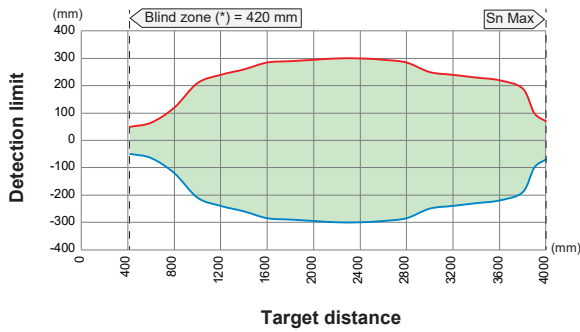
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Tilt angle



Detection curves for different objects

Detection curve with 100 x 100 mm square target

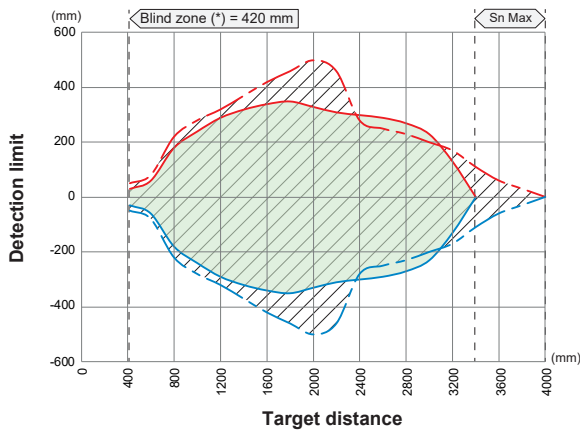


(*) : Blind zone

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



Detection curve with round bar



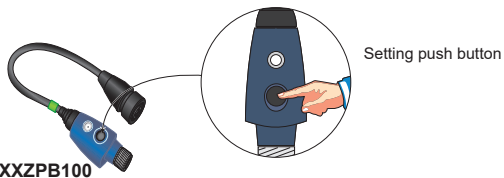
Ø 10 mm / 0.394 in.
Stainless steel cylinder



Ø 25 mm / 0.984 in.
Stainless steel cylinder

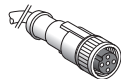


Wiring accessory

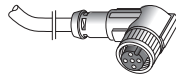


Cables

5-pin, 5-wire
(for synchronization)



XZCPV11V12L2 (2 m / 6.6 ft)
XZCPV11V12L5 (5 m / 16.4 ft)
XZCPV11V12L10 (10 m / 32.8 ft)



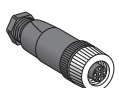
XZCPV12V12L2 (2 m / 6.6 ft)
XZCPV12V12L5 (5 m / 16.4 ft)
XZCPV12V12L10 (10 m / 32.8 ft)

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

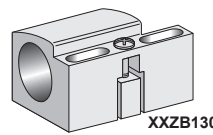


XZCC12FDM50B

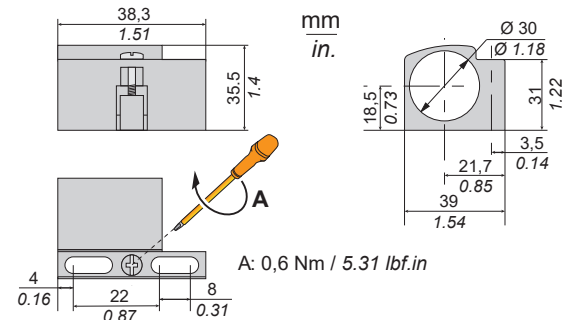


XZCC12FCM50B

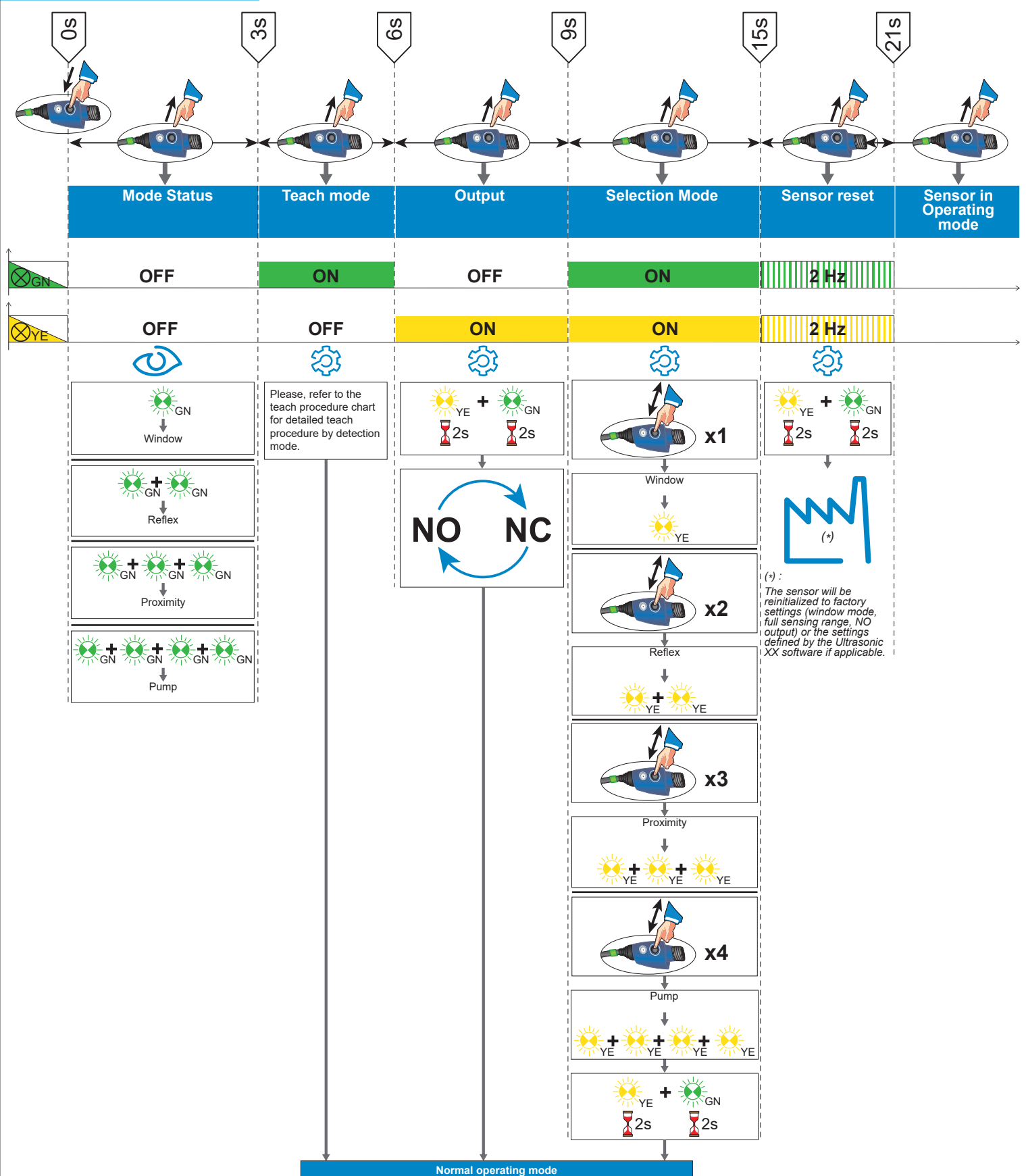
Mounting accessory



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



Sensor setting with teach procedure

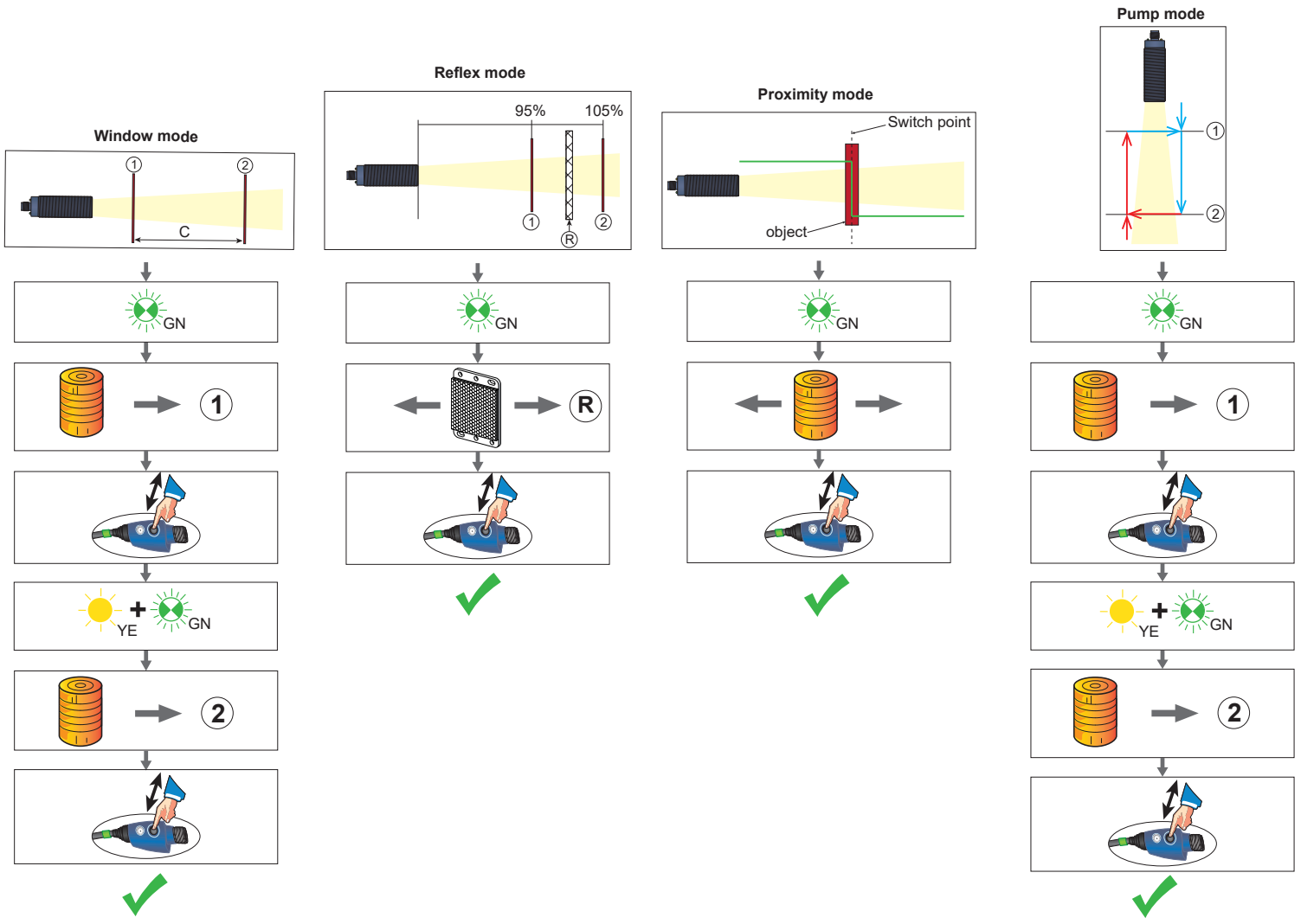


(*) :
The sensor will be reinitialized to factory settings (window mode, full sensing range, NO output) or the settings defined by the Ultrasonic XX software if applicable.

Legend:

- ⊗ OFF
- ON
- ⚡ Flashing
- GN: Green
- YE: Yellow
- ☀ + 🟢 Processing
- 🕒 2s
- 🕒 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 / Objet
- 📡 Reflector

Teaching procedure by detection mode



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