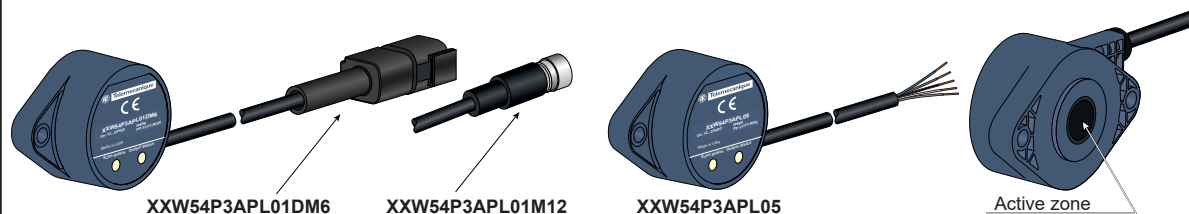


Wide Beam Ultrasonic Sensor



http://qr.tesensors.com/XX0003

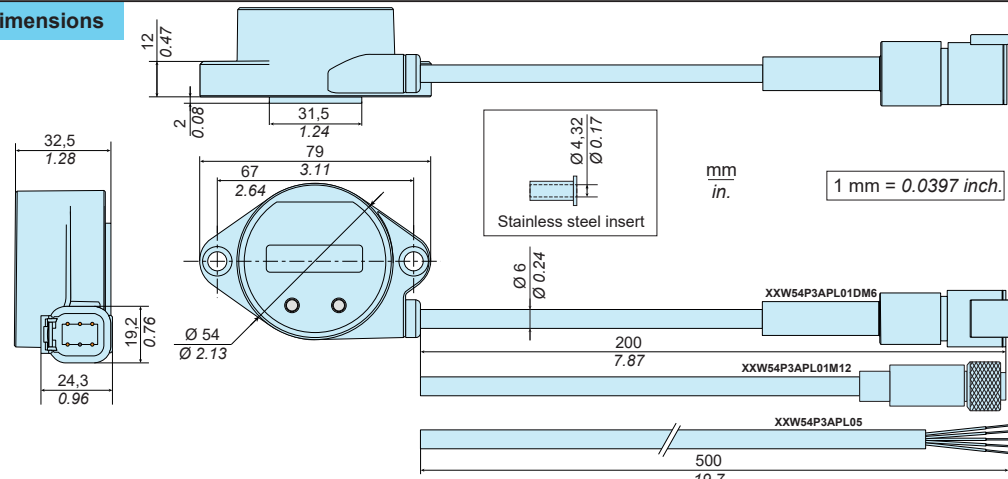
⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

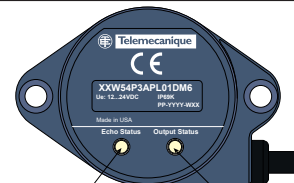
- This device does not have a Performance Level or Safety Integrity Level or any other type of capability with regard to functional safety
- Do not use this device to detect objects within the deadband (blind zone) or outside the sensing window.
- Do not use this device for safety related purposes.
- Use appropriate equipment and measures to protect against all hazards identified in your risk assessment.

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

Dimensions



LEDs



Green: Echo Status
White: Power Applied

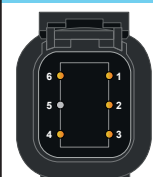
Yellow: Output Status

The White LED is ON when the green is OFF (to indicate that the product is powered).

Green = object detected between the blind zone and the max sensing distance (from 0,425m to 4m / 1.39 to 13.1 ft.).

Yellow = object detected between the near and the far limits (from 0,425m to 3m / 1.39 to 9.8 ft.).

Connectors wiring



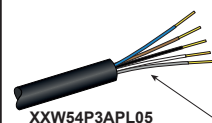
Connector model:
Deutsch connector
DTM04 male 6-pin

Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	BU: Blue	0 Vdc
③	BK: Black	4...20 mA Analog Output (3)
④	WH: White	PNP Digital Output
⑤ (2)		Not Connected
⑥	GY: Grey	Synchronization (1)

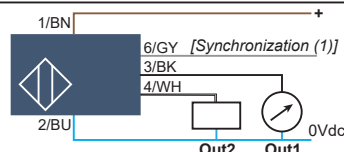


Connector model:
M12 - male 5-pin

Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	PNP Digital Output
③	BU: Blue	0 Vdc
④	BK: Black	4...20mA Analog Output (3)
⑤	GY: Grey	Synchronization (1)



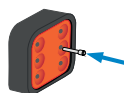
Cable model: 5 wires - 0,34 mm² / 22 AWG



Note :

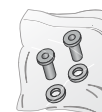
(1): See synchronization section

(2): Deutsch connector Pin 5 = Sealing plug

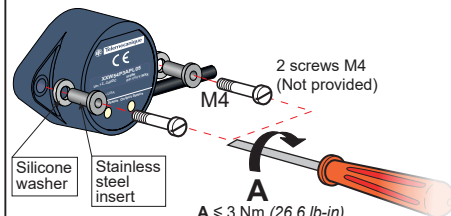


(3): The analogue output is 2 mA in case of excessive environmental noise. This exceeded output value means that the sensor cannot work properly in this environment.

Tightening torque



Stainless steel insert
Silicone washer
(provided with the sensor)



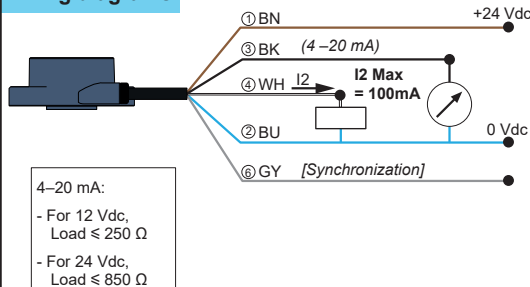
⚠ CAUTION

RISK OF MATERIAL DAMAGE

The stainless steel insert and the silicone washer are mandatory in all mounting cases

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

Wiring diagrams



Sensor type	4...20 mA
Rated supply voltage	12 or 24 Vdc Min = 9 Vdc Max = 32 Vdc with reverse polarity protection

⚠ WARNING

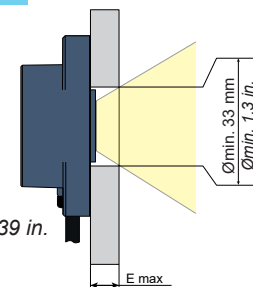
IMPROPER CONNECTION

- The XXW54P3APL0●●● must be powered by a dedicated safety extra low voltage (SELV) or a protected extra low voltage (PELV).
- The XXW54P3APL0●●● operate directly from a 24 Vdc power supply. The power supply must meet the requirements of IEC 60204-1.

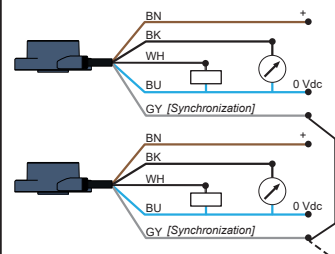
The SELV Schneider Electric part number ABL8RPS24... is recommended.

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

Flush mounting limit



Synchronization (side by side application)



Synchronization operation

The synchronization is recommended if more than 1 sensor is used in same direction in order to avoid any interference between the sensors due to their width of the beam.

Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.6 (grey) wires together.

All sensors must be the same model and have the same cycle time setting.

Noise Detection

This sensor is equipped with a noise detection capability. This is enabled by default. When noise detection is enabled, the sensor's analog output will output 2 mA when it detects excessive environmental noise. This alerts the user that the environmental noise is likely too excessive for the sensor to sense object distances properly. While it will not necessary distinguish all noise, it can be aid to the user.

The settings associated with noise detection can be changed using the Ultrasonic Sensors configuration interface and the dedicated software.

