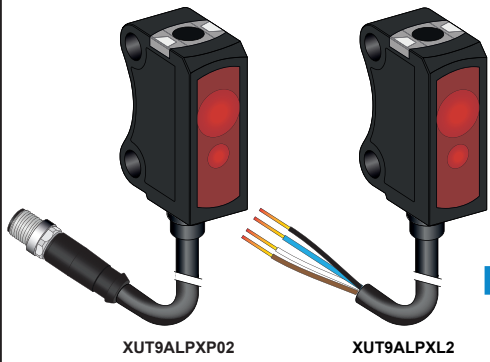


XUT9ALPXL2 / XUT9ALPXP02 (34 x 12 x 20)

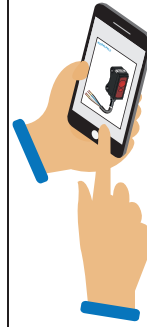
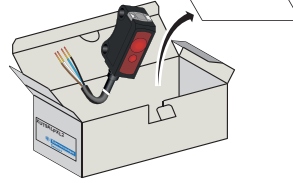
Photo-electric sensors - Miniature design



Polarised reflex



Package Content (Example)



Scan the code to access this Instruction Sheet in different languages and all the product information or you can visit our website at: www.tesensors.com

We welcome your comments about this document. You can reach us through the customer support page on your local website.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before servicing equipment.
- Do not connect this device to AC power.
- The power voltage must not exceed the rated range.

Failure to follow these instructions will result in death or serious injury.

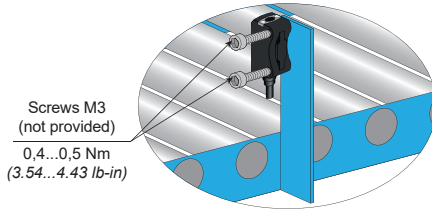
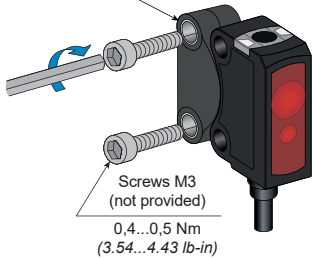
WARNING

IMPROPER SETUP OR INSTALLATION

- This equipment must only be installed and serviced by qualified personnel.
 - Read, understand, and follow the compliance below, before installing the XUM Photo-electric sensor.
 - Do not tamper with or make alterations on the unit.
 - Comply with the wiring and mounting instructions.
 - Check the connections and fastening during maintenance operations.
 - The proper functioning of the XU photoelectric sensor and its operating line must be checked regularly and according to the application (for example number of operations, level of environmental pollution, etc.).
- Failure to follow these instructions can result in death, serious injury, or equipment damage.

Mounting and tightening torques

XUZARS

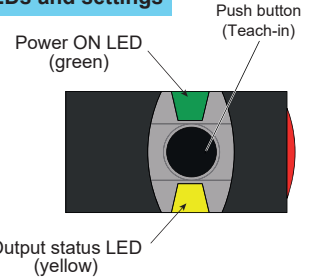


Screws M3 (not provided)
0.4...0.5 Nm
(3.54...4.43 lb-in)

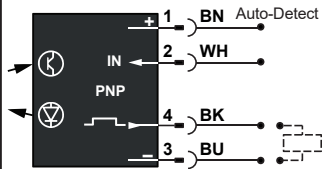
CAUTION

DEGREE OF PROTECTION DETERIORATION
Do not apply excessive torque on the sensor during the installation process.
Failure to follow these instructions can result in injury or equipment damage.

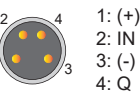
LEDs and settings



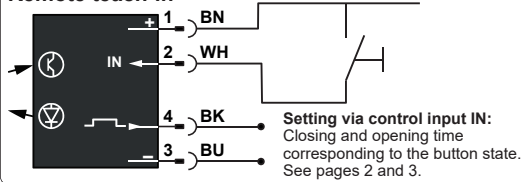
Wiring diagrams



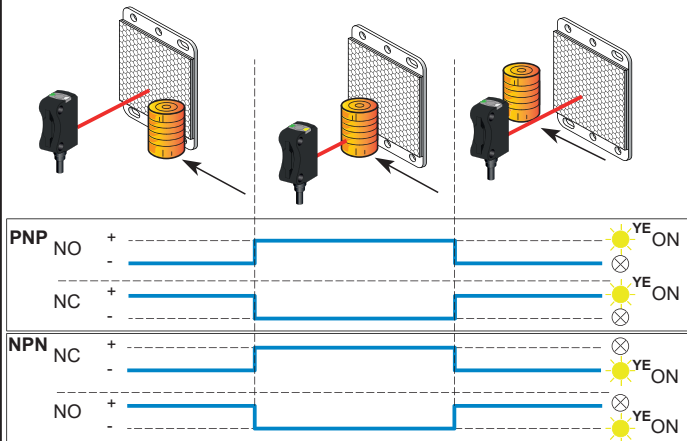
M8 Connector 4 pins



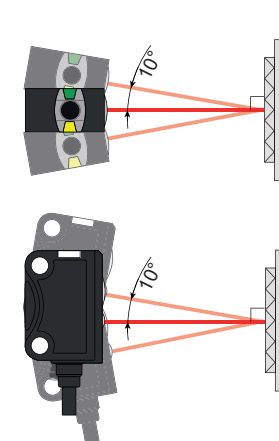
Remote teach-in



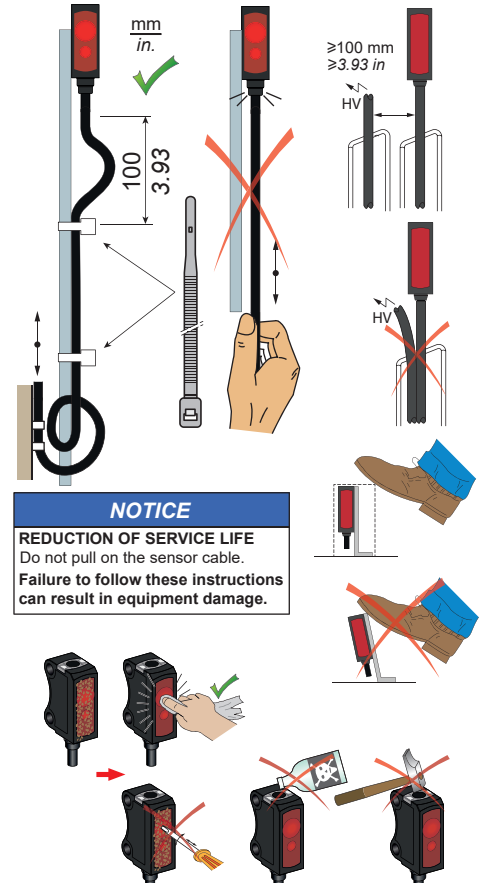
Switching mode for object



Alignment



Mounting, wiring and maintenance precautions

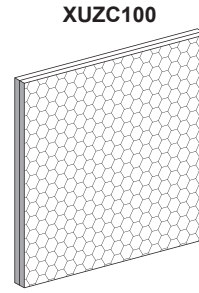
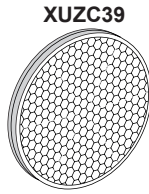
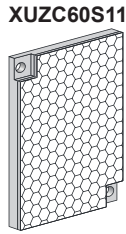
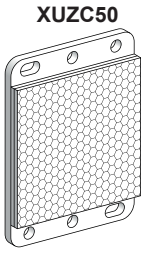


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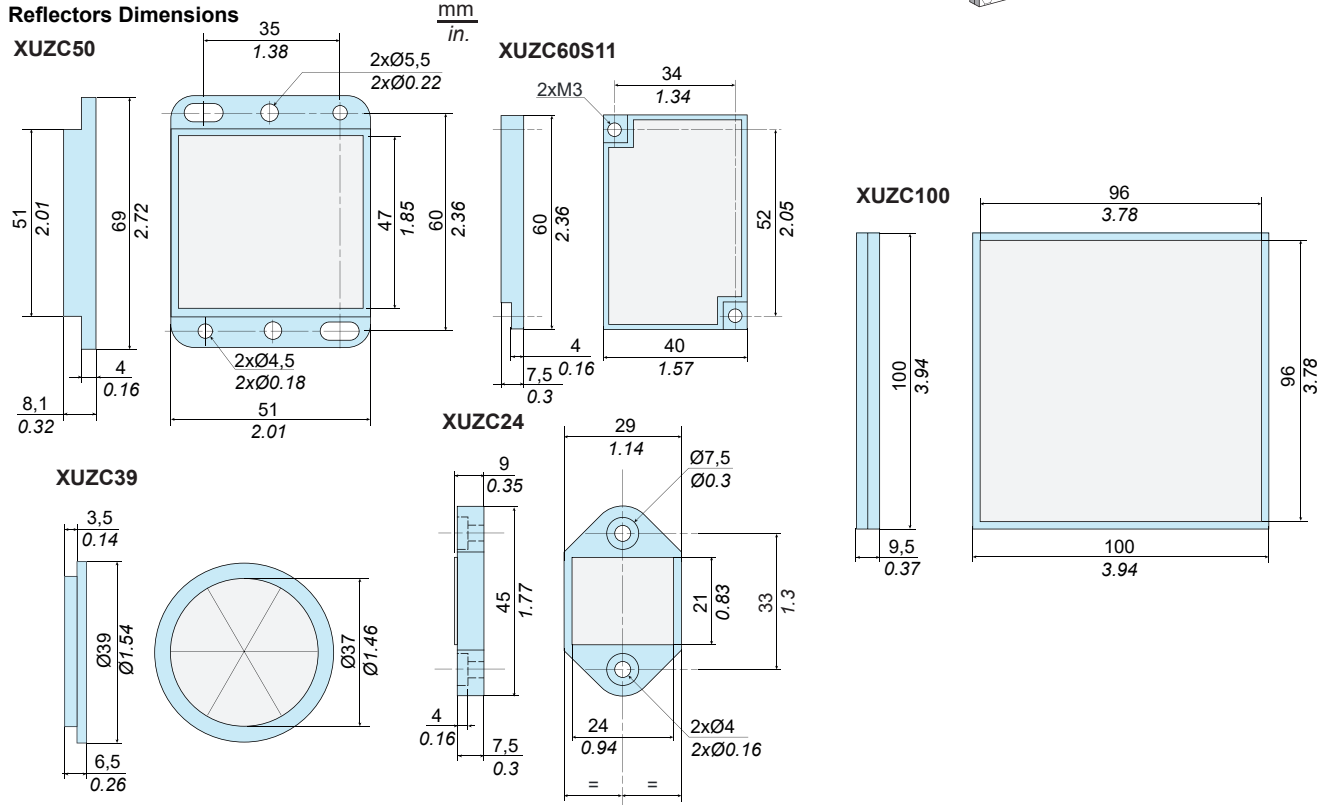


XUT9ALPXL2 / XUT9ALPXP02 (34 x 12 x 20)

Reflector examples (to order separately)



Reflectors Dimensions



Pre-wired connectors (examples)

PVC cable for general use
 PUR cable for severe industrial environments

Jumper
 M8 - 4 pins plug
 M8 - 4 pins socket



XZCPB1141L2 2m PUR
 XZCPB1141L5 5m PUR

Jumper
 M12 - 4 pins plug
 M8 - 4 pins socket



XZCR2711037T1 1m PUR
 XZCR2711037T2 2m PUR

M8 - 4 pins socket
 4 wires



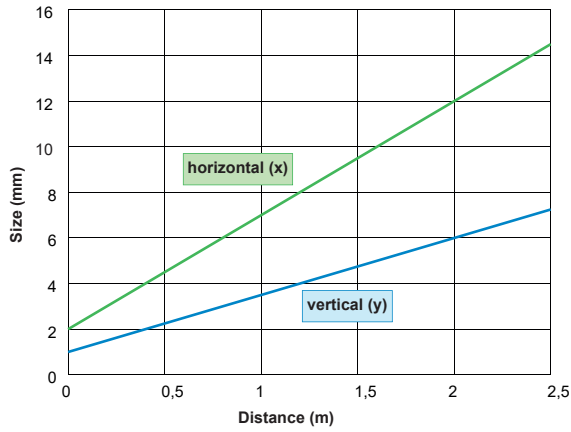
XZCR2705037R1 1m PUR
 XZCR2705037R2 2m PUR

For other cables (angled or length) visit our website: Tesensors.com

XUT9ALPXL2 / XUT9ALPXP02 (34 x 12 x 20)

Curves

Light spot size

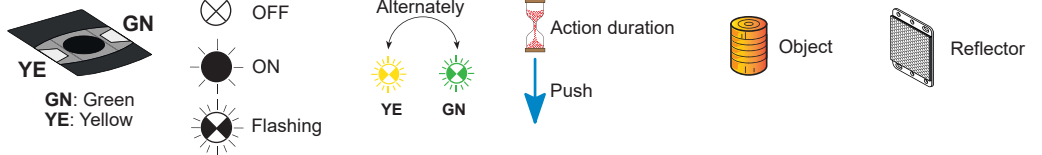
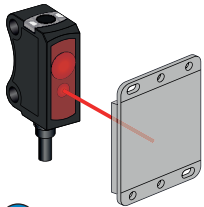


Setting

The sensor has 3 different Teach-in modes:

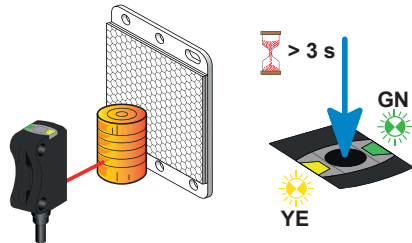
A-Standard Teach-in (STI): is suited for nearly all applications. Setting is made on object and background (see illustration A).

B-Dynamic Teach-in (DTI): is suited for setting the sensor in the running process, particularly for small objects (see illustration B).

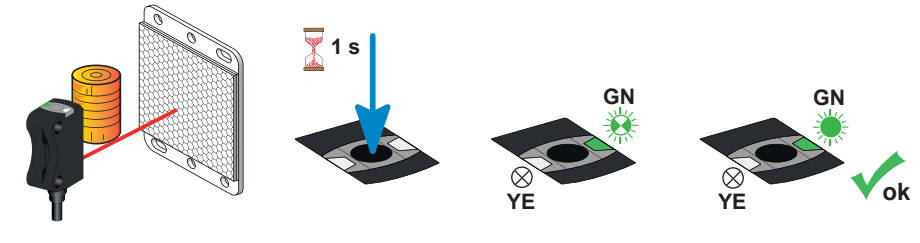


A Standard teach-in (STI)

Step 1: Teach-in object

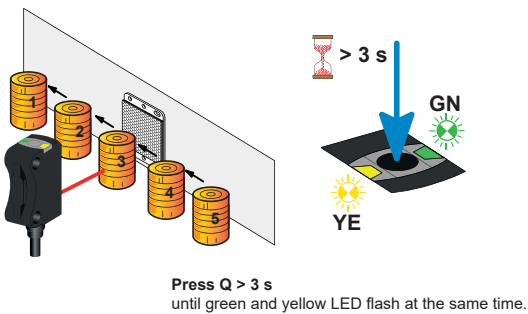


Step 2: Teach-in background

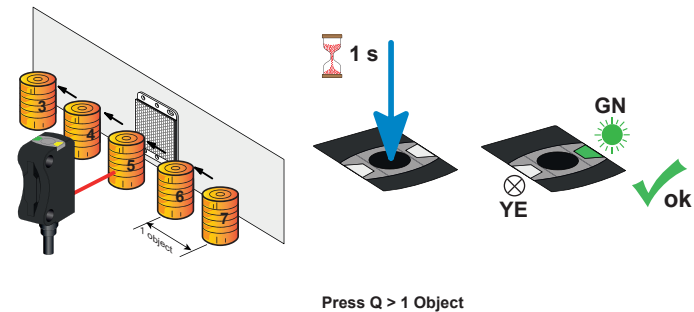


B Dynamic Teach-in (DTI)

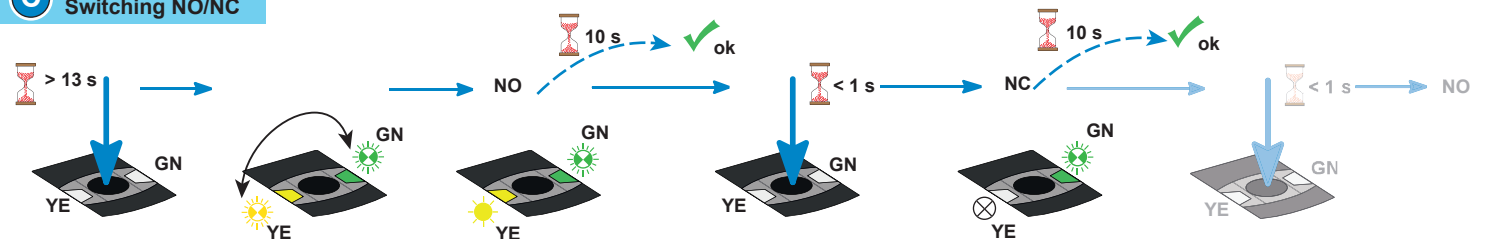
Step 1: During running process



Step 2: Teach-in object during running process



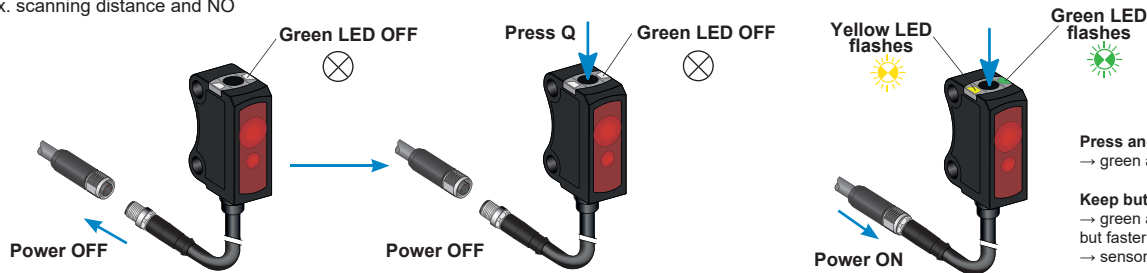
C Switching NO/NC





XUT9ALPXL2 / XUT9ALPXP02 (34 x 12 x 20)

D Factory Setting

Max. scanning distance and NO



Characteristics

Certification	CE - UKCA - cULus - Ecolab
Sensing Range (using a 50 mm x 50 mm reflector XUZC50)	Maximum sensing distance: 0,1...4 m / 0.33...13.1 ft. Nominal sensing distance: 0,1...3 m / 0.33...9.84 ft.
Setting	Teach button
Color of detection light beam	Laser class 1, red, 655 nm
 Wavelength	$\lambda = 655 \text{ nm}$
Puls duration	$t = 3,2 \mu\text{s}$
Frequency	$f = 5 \text{ kHz}$
Limit of radiant power pulse	$P_p \leq 2,3 \text{ mW}$
Light spot size	See spot size curve
Switching output Q	PNP (NO or NC)
Control input IN (switching function Q):	(+) = Teach-in (-) =  button locked Open = normal function
Current consumption	$\leq 12 \text{ mA}$
Switching capacity	$\leq 50 \text{ mA}$
Switching frequency	$\leq 1000 \text{ Hz}$
First-up delay	$< 300 \text{ ms}$
Response time	$500 \mu\text{s}$
Recovery time	$< 300 \text{ ms}$
Ambient Temperature	Operating : $-20...+50 \text{ }^\circ\text{C}$ ($-4...+122 \text{ }^\circ\text{F}$) - UL : $-20...+30 \text{ }^\circ\text{C}$ ($-4...+86 \text{ }^\circ\text{F}$) Storage : $-20...+80 \text{ }^\circ\text{C}$ ($-4...+176 \text{ }^\circ\text{F}$)
Power Voltage	Rated operational voltage: 24 Vdc Ripple p-p 10% maximum Operating range: 10...30 Vdc (including ripple)
Product protection	Power supply : Reverse polarity protection Output: Short circuit protection
Protection against electric shocks	<input type="checkbox"/> Protection class II
Degree of protection	IP67 conforming to IEC 60529
Vibration resistance	Conforming to EN 60947-5-2
Shock resistance	Conforming to EN 60947-5-2
Material	Housing: PUR, Front and Lens: PMMA

