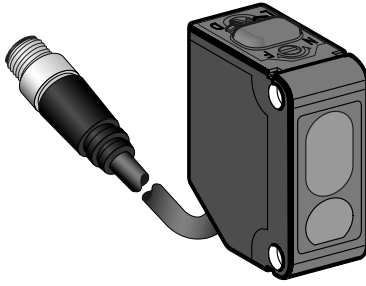
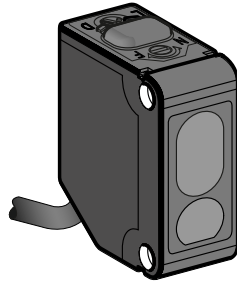
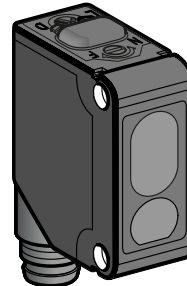


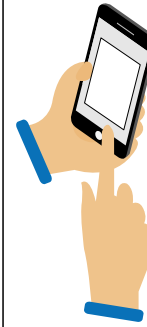
Compact Photo-electric sensor



XUM8APCNL03M12

XUM8APCNL2
XUM8APCNL5

XUM8A●CNM8



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⚠ 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.

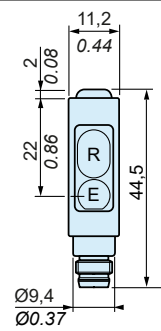
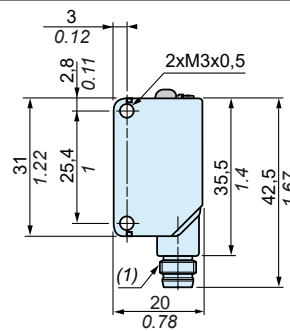
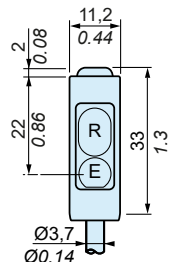
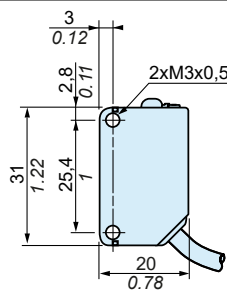
⚠ WARNING

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 device.
- Do not tamper with or make alterations on the device.
- Comply with the wiring and mounting instructions.
- Check the connections and fastening during maintenance operations.
- The proper functioning of the device 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.

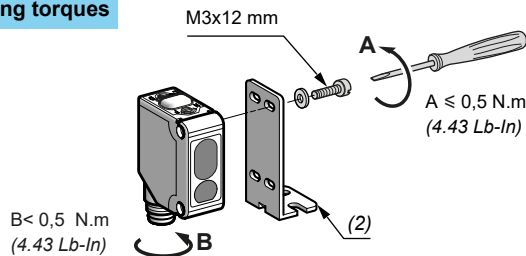
Dimensions



1 mm = 0.0394 in

(1) M8 Connector

Mounting and tightening torques



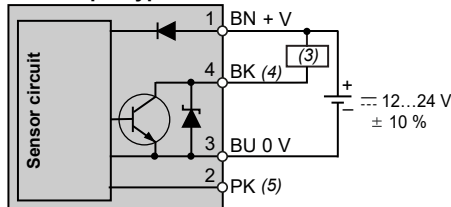
⚠ CAUTION

DEGREE OF PROTECTION DETERIORATION
 Do not apply excessive torque on the sensor during the installation process.

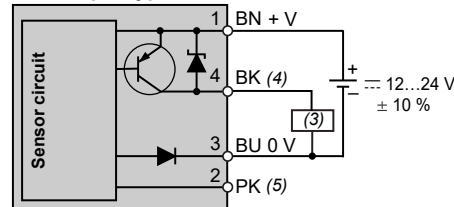
Failure to follow these instructions can result in injury or equipment damage.

Wiring diagrams

NPN output type



PNP output type

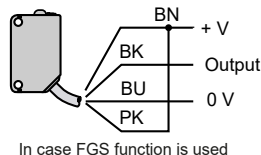
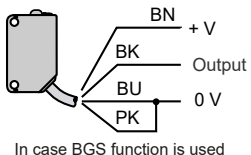


BN	Brown
BK	Black
BU	Blue
PK	Pink

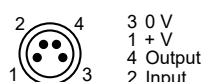
(3) Load

(4) Output : 100 mA max

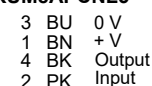
(5) Sensing mode selection input, see just below



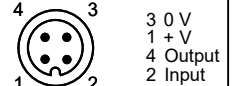
XUM8A●CNM8



XUM8APCNL2 XUM8APCNL5

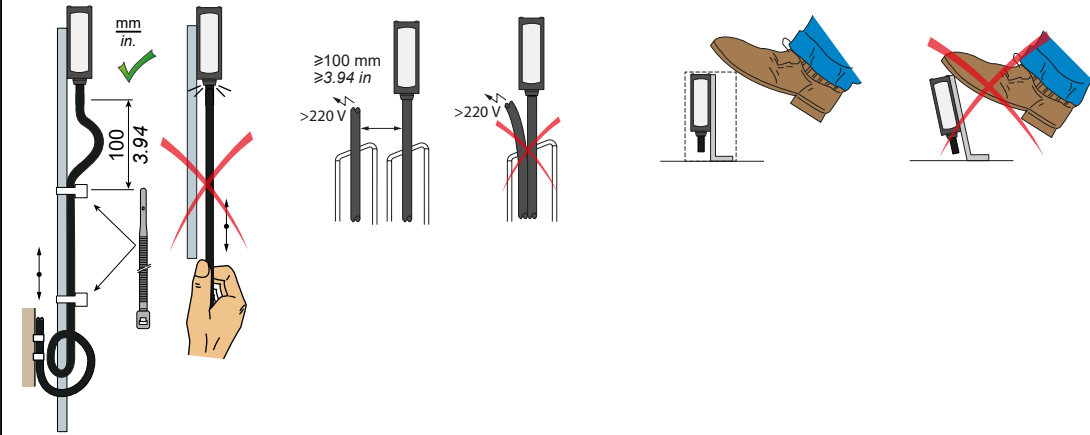


XUM8APCNL03M12



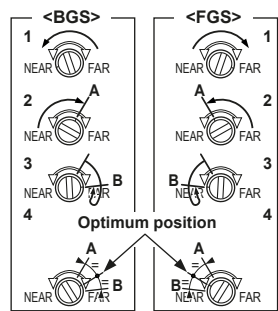
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Mounting, wiring and maintenance precautions



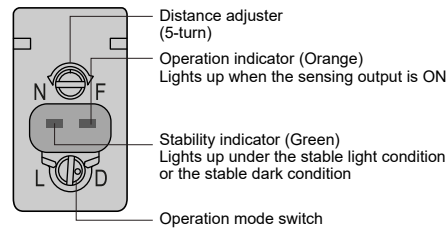
NOTICE
REDUCTION OF SERVICE LIFE
Do not pull on the sensor cable.
Failure to follow these instructions can result in equipment damage.

Distance adjustment



1. Turn the sensitivity adjuster fully.
BGS (Back-ground suppression) function: Counterclockwise
FGS (Fore-ground suppression) function: Clockwise
2. BGS function: In the object present condition, turn the sensitivity adjuster and confirm the point **A** where the sensor enters the sensing state.
FGS function: In sensing background condition, turn the sensibility adjuster and confirm the point **A** where the sensor enters the non-sensing state.
3. BGS function: After removing the sensing object, turn the sensitivity adjuster and confirm the point **B** where the sensor enters the non-sensing state.
FGS function: In the object present condition, turn the sensitivity adjuster and confirm the point **B** where the sensor enters the sensing state.
(If the sensor does not enter the sensing state operation even when the sensitivity adjuster is turned fully clockwise, the position is point **B**).
4. The optimum position to stably detect object is the center point between **A** and **B**.

Nominal range: 20...300 mm (0.79...11.81 in)
Adjustable range: 40...300 mm (1.57...11.81 in)



Operation mode switch	Description
	The NO output is activated when the switch is turned fully clockwise (L side).
	The NC output is activated when the switch is turned fully counterclockwise (D side).

CE
Manufacturer:
TMSS France
Tour Egho - 2 avenue Gambetta
92400 Courbevoie
France

UK CA
UK Representative:
Yageo TMSS UK Limited
2 North Park Road
Harrogate, HG1 5PA
United Kingdom