## XUM8ABAYM8 / XUM8ABAYP015 (34 x 12 x 20)

# Photo-electric sensors - Miniature design





Background suppression (BGS)



**IO**-Link





**WARNING** 

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

**ECOLAB** 

- 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.

#### IMPROPER SETUP OR INSTALLATION

**Package Content** 

Instruction

(Example)

- This equipment must only be installed and serviced by qualified personnel.

  Read, understand, and follow the compliance below, before installing the XU Photo-electric sensor.

  Do not tamper with or make alterations on the unit.

BN

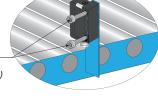
CAUTION INOPERABLE EQUIPMENT DUE TO CYBER ATTACK ON IO-LINK Apply external cybersecurity protection on IO-Link Master device.
 Download IO-Link Description files only from these web servers:

- Comply with the wiring and mounting instructions.
  Check the connections and fastening during maintenance operations.
  The proper functioning of the XU Photo-electric 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



Screws M3 (not provided) 0,4...0,5 Nm (3.54...4.43 lb-in)



Remote teach-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.

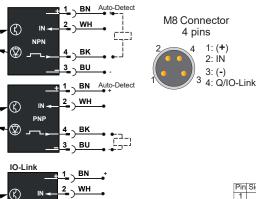
Setting via control input IN:

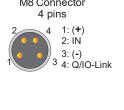
Closing and opening time corresponding to the button

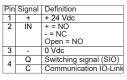
state. See page 2 and 3.



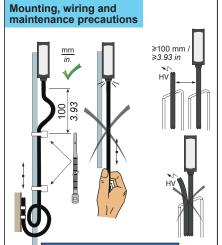
#### Wiring diagrams







IO-Link data tables and IODD files are online: Scan the 2D code, above





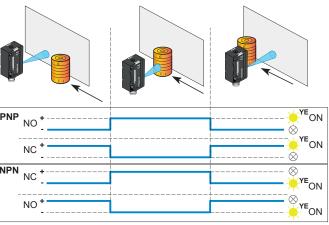
REDUCTION OF SERVICE LIFE Do not pull on the sensor cabl Failure to follow these instructions can result in equipment damage







#### Switching mode for object

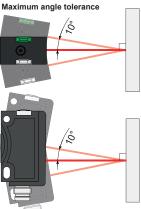


#### **Alignment**

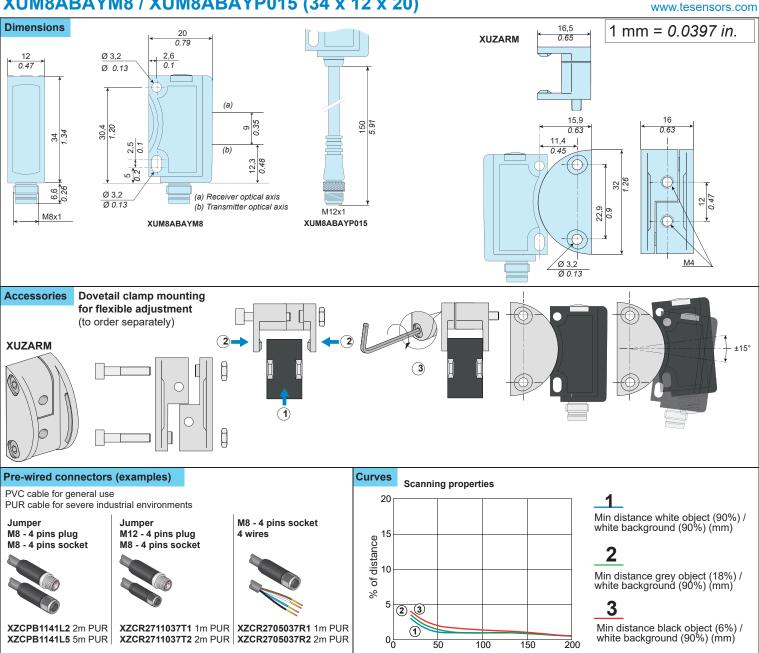
https://tesensors.com/global/en/support/iolink or

Failure to follow these instructions can result in injury or

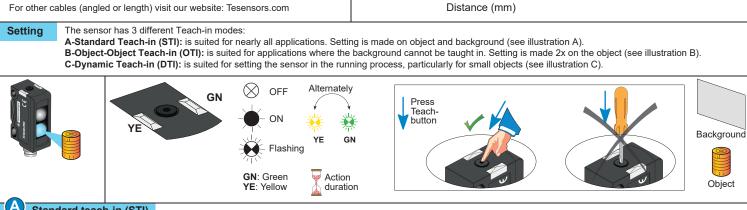
https://ioddfinder.io-link.com/#/



Electrical equipment should be installed, operated and maintained only by qualified personnel. Neither TMSS France nor any of its subsidiaries or other affiliated companies shall be responsible or liable for any consequences arising out of the use of this material. Telemecanique Sensors is a trademark of Schneider Electric Industries SAS used under license by TMSS France. Any other brands or trademarks referred to in this document are property of TMSS France or, as the case may be, of its subsidiaries or other affiliated companies. All other brands are trademarks of their respective owners.



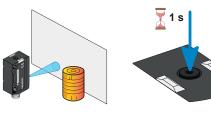
For other cables (angled or length) visit our website: Tesensors.com



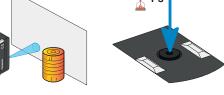
# Standard teach-in (STI)

Step 1: Teach-in object

Press teach button > 3 s The green and yellow LEDs flash at the same time Release the button The green and yellow LEDs flash alternatively



Step 2: Teach-in background



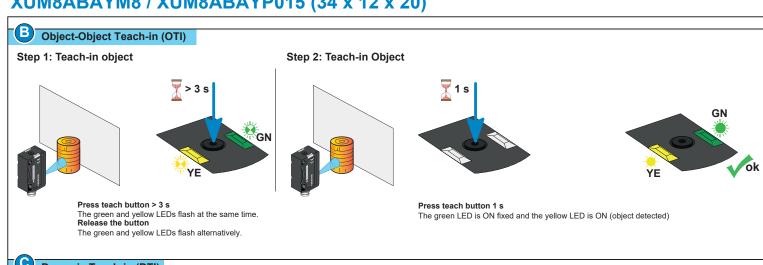
Press teach button 1 s The green LED is ON fixed and the yellow LED is OFF (no object detected)

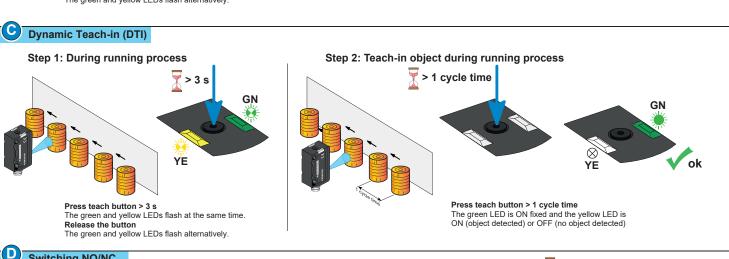


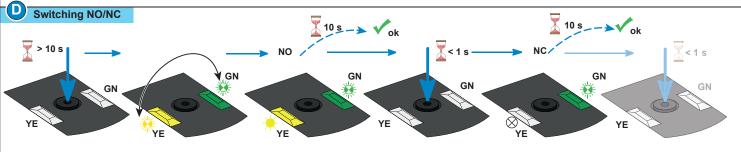


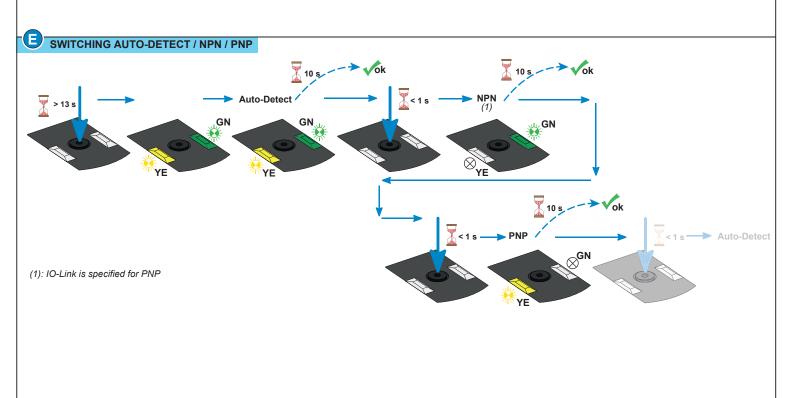
ΥE

# XUM8ABAYM8 / XUM8ABAYP015 (34 x 12 x 20)

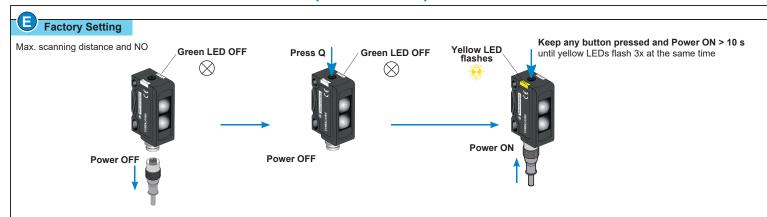








# XUM8ABAYM8 / XUM8ABAYP015 (34 x 12 x 20)



#### Characteristics

Certification	CE - UKCA - cULus - Ecolab
Sensing distance	1200 mm / 0.047.87 in.
Setting	Teach button
Color of detection light beam	LED, blue, 450 nm - Risk group 2 according to EN62471
Light spot size	7 x 7 mm / 0.28 x 0.28 in.
Switching output Q	Auto-Detect - PNP/NPN (NO or NC) - IO-LINK
Control input IN (switching function Q):	(+) = Teach-in (-) =  button locked Open = normal function
Current consumption	≤ 30 mA
Switching capacity	≤ 100 mA
Switching frequency	≤ 700 Hz
First-up delay	< 300 ms
Response time	≤ 500 µs
Recovery time	< 300 ms
Ambient Temperature	Operating : - 20+60 °C (-4+140 °F) - UL : - 20+50 °C (-4+122 °F) Storage : - 20+80 °C (-4+176 °F)
Power Voltage	Rated operational voltage: 1224 Vdc Operating range: 1030 Vdc (including ripple p-p 10% maximum)
Product protection	Power supply : Reverse polarity protection Output: Short circuit protection
Protection against electric shocks	□ Protection class II
Degree of protection	IP67 conforming to IEC 60529, IP69K conforming to DIN 40050-9
Vibration resistance	Conforming to EN 60947-5-2
Shock resistance	Conforming to EN 60947-5-2
Material	Housing: ABS, Front and Lens: PMMA



#### **A** CAUTION

#### EYE INJURY DUE TO HAZARDOUS OPTICAL RADIATION

Do not stare at the beam.
 Avoid any eye contact with the beam.
 Failure to follow these instructions can result in injury or equipment damage.

**♦ IO-Link** Data sheet and IODD IO-Link on website: <a href="https://tesensors.com/iolink">https://tesensors.com/iolink</a>



PKR87382\_00





