XUM8ALAYM8 / XUM8ALAYP015 / XUM8ALAYL2 (34 x 12 x 20)

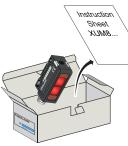
Photo-electric sensors - Miniature design

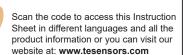


Background suppression (BGS)



Package Content (Example)





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.



2 m Cable - 4 wires

A CAUTION

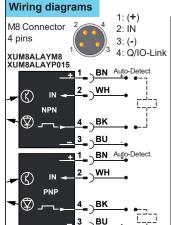
DEGREE OF PROTECTION DETERIORATION Do not apply excessive torque on the sensor during the installation process

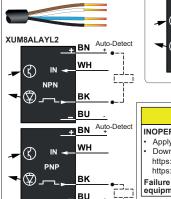
Failure to follow these instructions can result in injury or equipment damage.



Mounting, wiring and

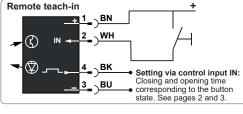
maintenance precautions





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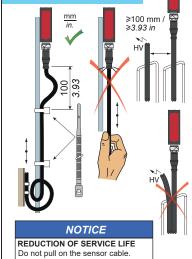
▲ CAUTION

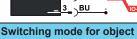
INOPERABLE EQUIPMENT DUE TO CYBER ATTACK ON IO-LINK

Apply external cybersecurity protection on IO-Link Master device. Download IO-Link Description files only from these web servers: https://tesensors.com/global/en/support/iolink or https://ioddfinder.io-link.com/#/

Failure to follow these instruequipment damage.

uctions can result in injury or				
Pin	Wire	Signal	Definition	
1	BN	+	+ 24 Vdc	
2	WH	IN	+ = NO	
			- = NC	
			Open = NO	
3	BU	-	0 Vdc	
4	ВК	Q	Switching signal (SIO)	
		С	Communication IO-Link	
IO-Link data tables and IODD				
files are online:				

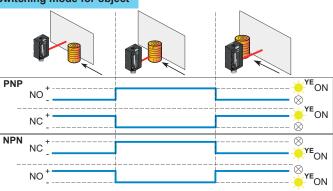




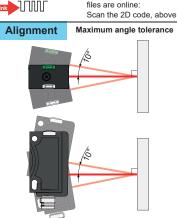
_\BN 2__\WH

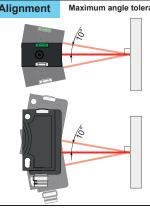
IO-Link

3

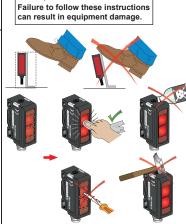


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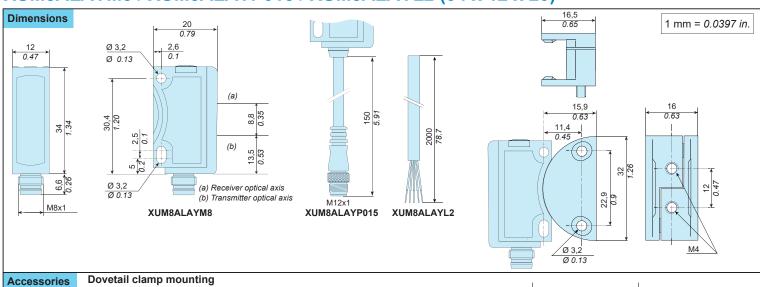


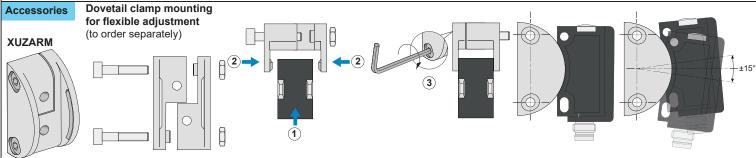






XUM8ALAYM8 / XUM8ALAYP015 / XUM8ALAYL2 (34 x 12 x 20)





Pre-wired connectors (examples) PVC cable for general use PUR cable for severe industrial environments Jumper Jumper M8 - 4 pins plug M12 - 4 pins plug M8 - 4 pins socket

M8 - 4 pins socket M8 - 4 pins socket

XZCPB1141L2 2m PUR XZCR2711037T1 1m PUR XZCR2705037R1 1m PUR XZCPB1141L5 5m PUR XZCR2711037T2 2m PUR XZCR2705037R2 2m PUR

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

Curves Scanning properties Light spot size 3.0 16 2.0 % of distance (mm) Size 1.0 (1) 0.5 2 0.0 60 120 Distance (mm) Distance (mm) 3 Min distance white object (90%) / Min distance grey object (18%) / Min distance black object (6%) / white background (90%) (mm) white background (90%) (mm)

white background (90%) (mm)

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).

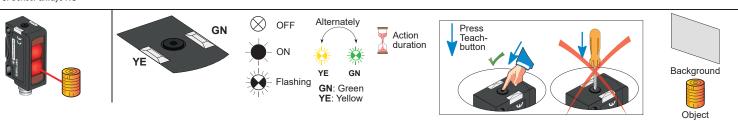
B-Object-Object Teach-in (OTI): is suited for applications where the background cannot be taught in. Setting is made 2x on the object (see illustration B).

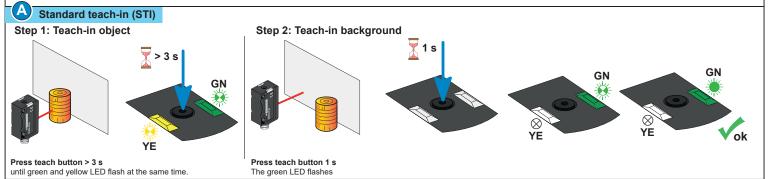
C-Dynamic Teach-in (DTI): is suited for setting the sensor in the running process, particularly for small objects (see illustration C)

The sensor has 3 different Switching NO/NC settings: 1: NO/NC via teach-in in series

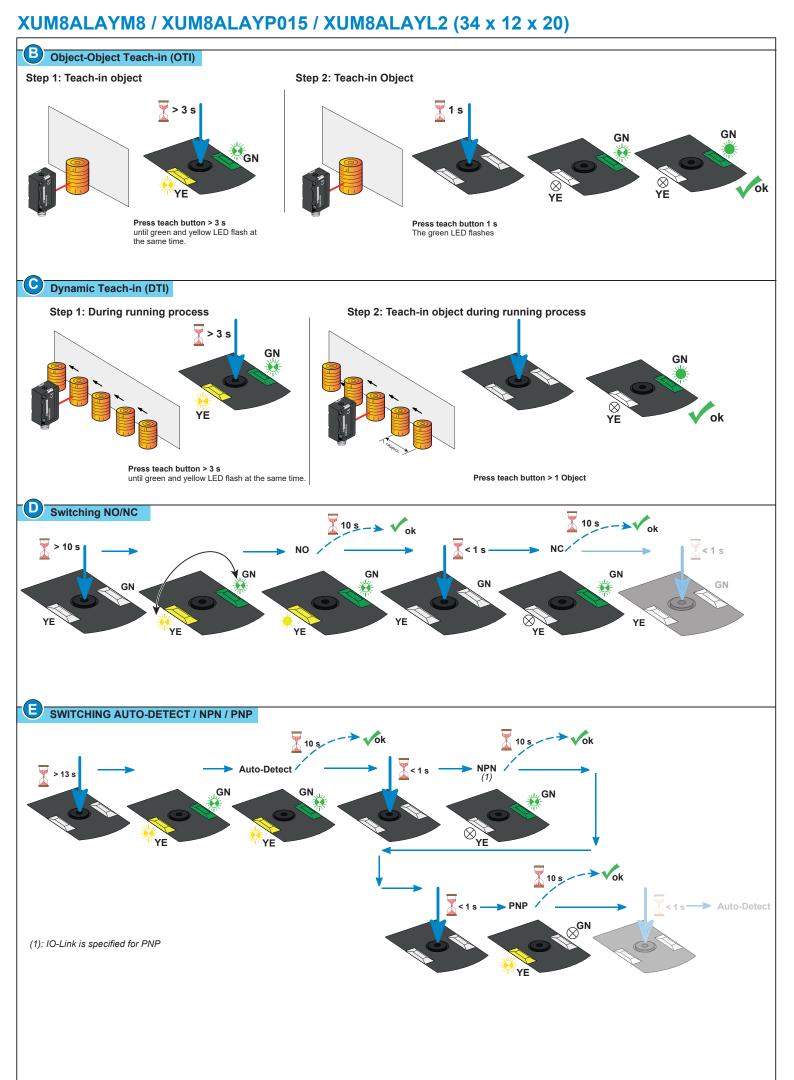


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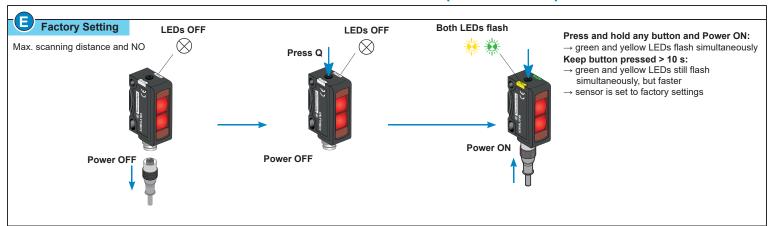






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XUM8ALAYM8 / XUM8ALAYP015 / XUM8ALAYL2 (34 x 12 x 20)



Characteristics

Certification	CE - UKCA - cULus - Ecolab
Sensing distance	4150 mm / 0.165.91 in.
Adjustment range	12150 mm / 0.475.91 in. (Reference material: white, 90 % reflectivity)
Setting	Teach button
Color of detection light beam	Laser class 1, red, 650 nm
Wavelength	λ = 650 nm
Puls duration	t = 3.75 μs
Frequency	f = 4.5 kHz
Limit of radiant power pulse	Pp ≤ 2,5 mW
Light spot size	See spot size curve
Switching output Q	Auto-Detect - PNP/NPN (NO or NC) - IO-LINK
Control input IN	(+) = Teach-in
(switching function Q):	(-) = button locked
	Open = normal function
Current consumption	≤ 30 mA
Switching capacity	≤ 100 mA
Switching frequency	≤ 1000 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

