Photo-electric sensors - Miniature design









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IMPROPER SETUP OR INSTALLATION HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

(3.54...4.43 lb-in)

A ≤ 0,4 Nm (3.54 lb-in)

2 m Cable - 4 wires

- 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

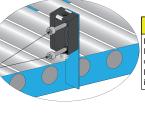
Package Content (Example)

> Instruction ZWUX

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



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(3)

A CAUTION

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

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

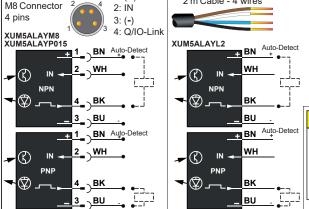


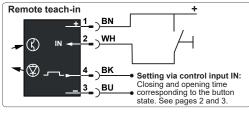


IO-Link

(3)

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CAUTION

INOPERABLE EQUIPMENT DUE TO CYBER ATTACK ON IO-LINK

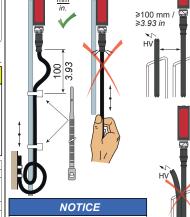
Apply external cybersecurity protection on IO-Link Master device. Download IO-Link Description files only from these web servers: https://tesensors.com/global/en/support/iolink or https://ioddfinder.io-link.com

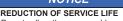
Failure to follow these instrequipment damage.

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

Scan the 2D code, above





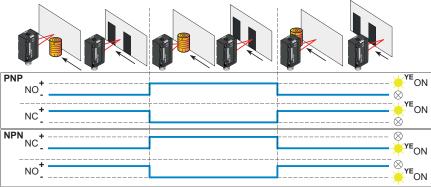


Do not pull on the sensor cable Failure to follow these instructions can result in equipment damage



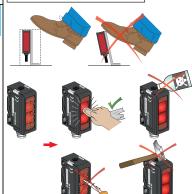
1_)BN 2_)WH

<u>-)BU</u>



Orientation Maximum angle tolerance

Alignment - Distance



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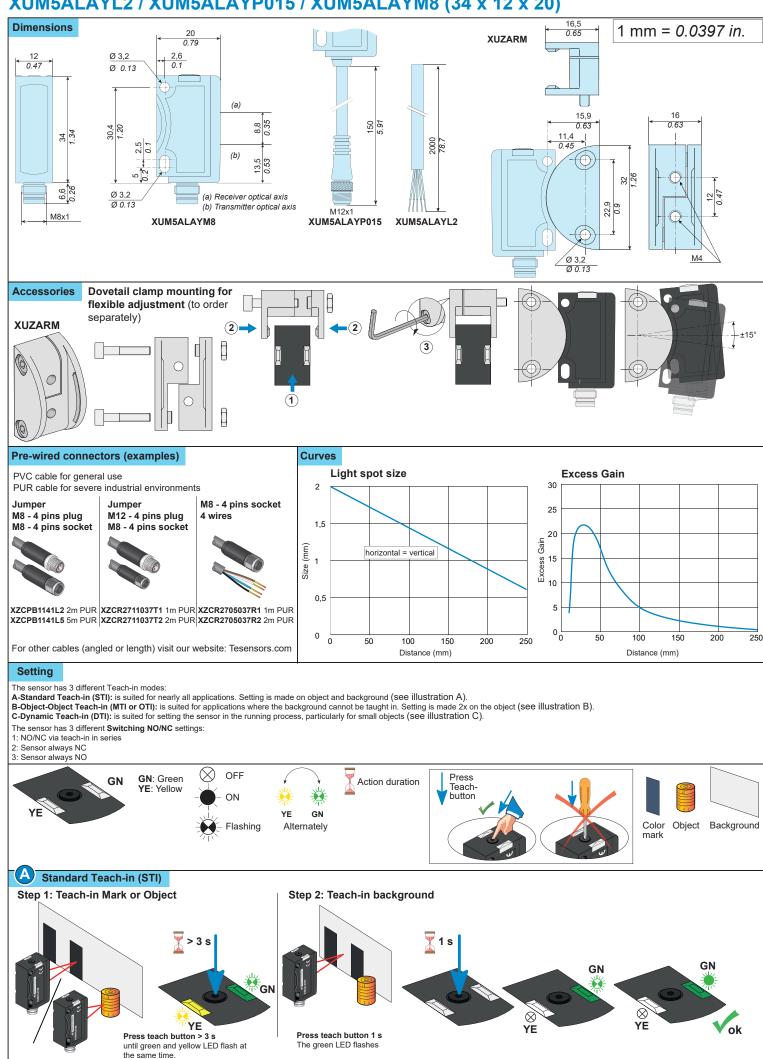


Manufacturer: TMSS France Tour Eqho - 2 avenue Gambetta 92400 Courbevoie

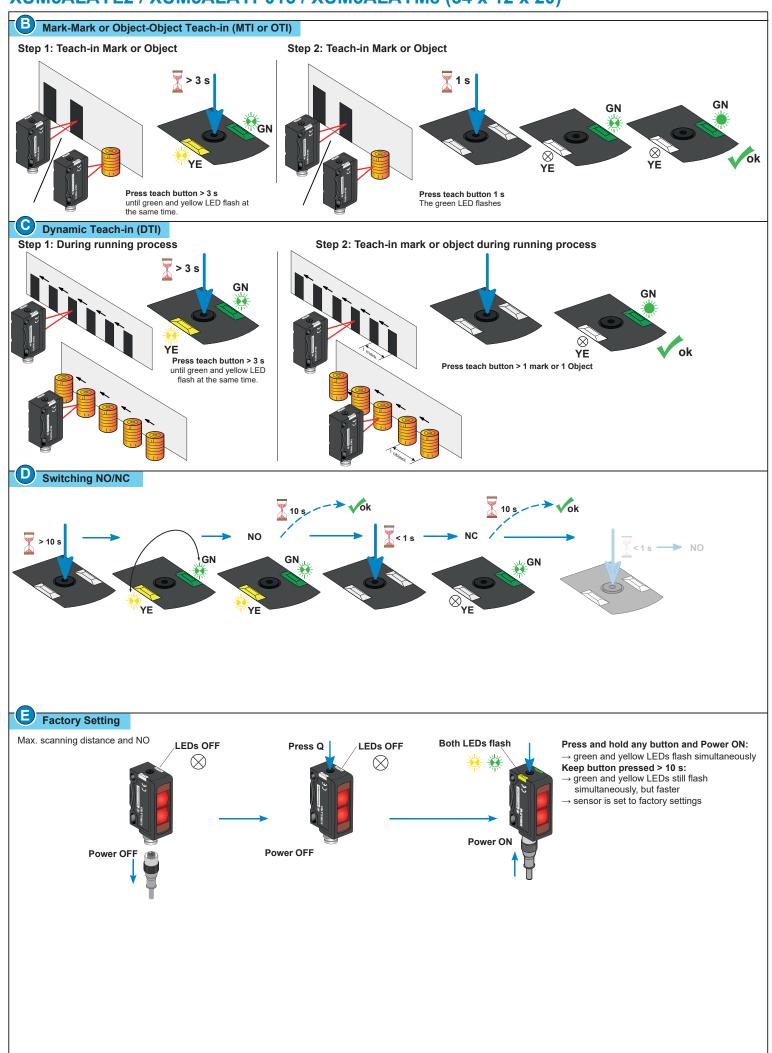


UK Representative : Yageo TMSS UK Limited 2 North Park Road Harrogate, HG1 5PA United Kingdom





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Characteristics			
Certification	CE - UKCA - cULus - Ecolab		
Sensing distance	1250 mm / 0.049.84 in. [Adjustment range: 25250 mm / 0.989.84 in.]		
Setting	Teach button		
Detection light beam	Laser class 1, red, 650 nm		
Wavelength	λ = 650 nm		
Puls duration	t = 0,7 μs		
Frequency	f = 11,7 kHz		
Limit of radiant power pulse	Pp = 8,5 mW		
Output function	NO/NC via Teach-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	≤ 4000 Hz		
First-up delay	< 300ms		
Response time	≤ 125 µs		
Recovery time	< 300ms		
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		







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