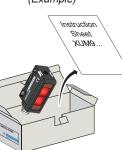
Photo-electric sensors - Miniature design



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.

A A 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.

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.

WARNING





Screws M3 (not provided) 0,4...0,5 Nm

(3.54...4.43 lb-in)

A ≤ 0,4 Nm (3.54 lb-in)

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.





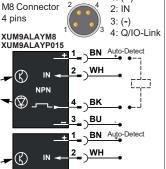
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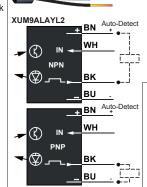
IO-Link

(3)

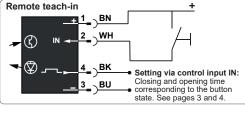
0.4 0.5 Nm

(3.54...4.43 lb-in)





(3)



A 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 instructions can result in injury of equipment damage.

TUUT.

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				

BK C Communication IO-L
IO-Link data tables and IODD
are online:
Scan the 2D code, above

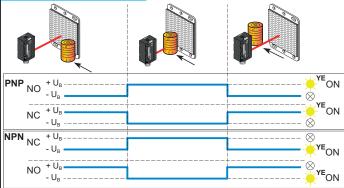
Mounting, wiring and maintenance precautions | Saloo mm / Saloo m

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

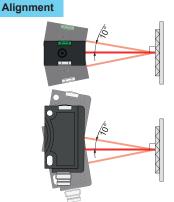
Switching mode for object

3___>BU

1-)BN 2-)WH



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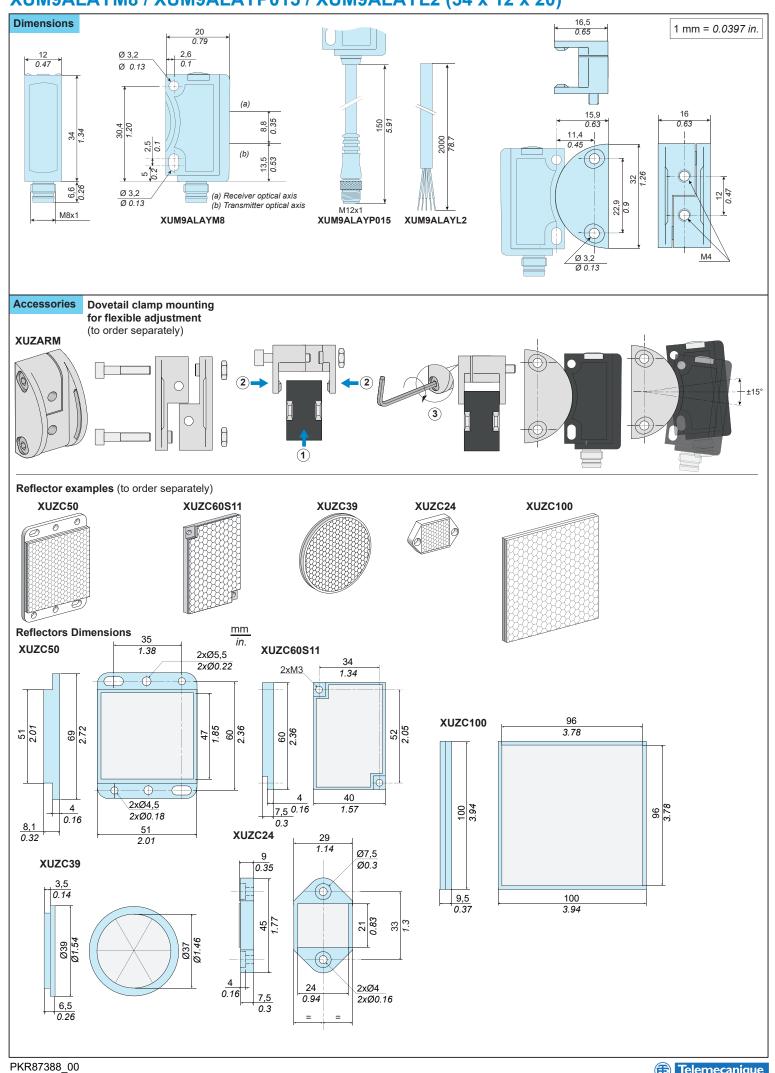


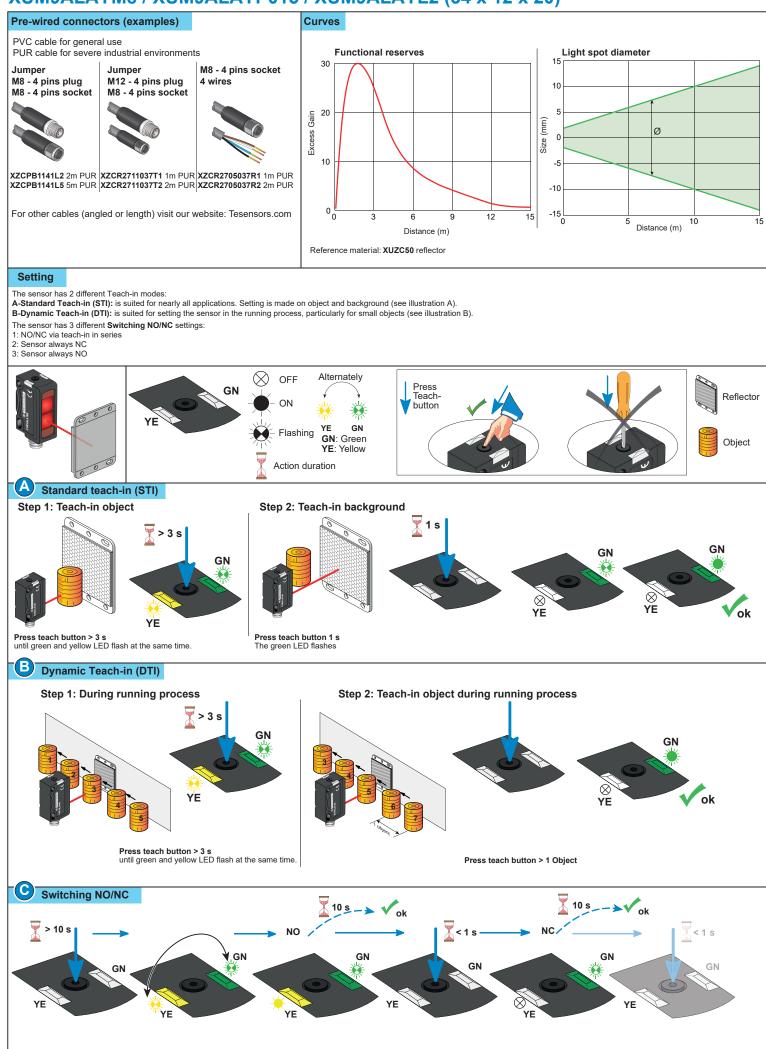




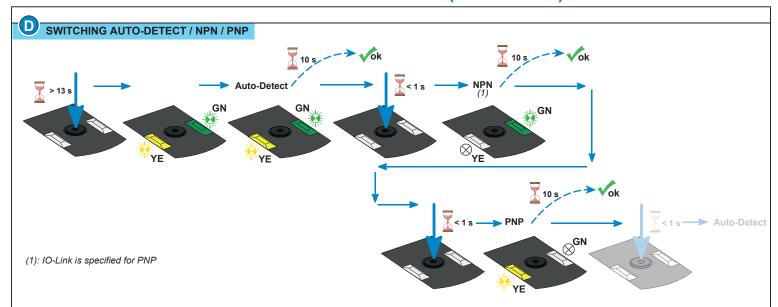


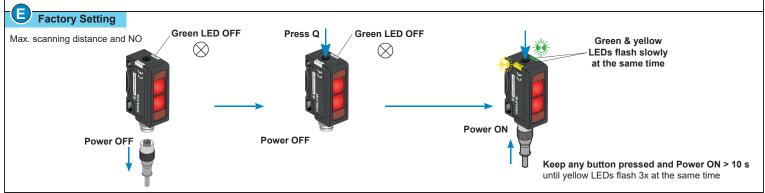
wн





PKR87388 00





Characteristics

PKR87388_00

Certification	CE - UKCA - cULus - Ecolab
Sensing distance	Nominal sensing distance: 0,113 m / 0.3342.7 ft.
(Using reflector XUZC50)	Maximum sensing distance: 0,115 m / 0.3349.2 ft.
Setting	Teach button
Color of detection light beam	Laser class 1, red, 650 nm
Wavelength	$\lambda = 650 \text{ nm}$
Puls duration	t = 0,7 μs
Frequency	f = 11,7 kHz
Limit of radiant power pulse	Pp ≤ 8,5 mW
Light spot size	See spot diameter 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	≤ 4000 Hz
First-up delay	< 300 ms
Response time	125 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: 24 Vdc Ripple p-p 10% maximum Operating range: 1030 Vdc (including ripple)
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

