



## XUM Blue Light miniature sensors

Ultra-dark object detection

## Blue Light sensor: Unveiling the unseen

### Cutting-edge innovation designed for a new era of precision detection

Telemecanique Sensors introduces its new **Blue Light** sensors in XUM, XUK, XUT formats. In the world of industrial sensing, precision is everything.

#### Illuminating the future of industrial sensors

- **High intensity advantage:** **Blue Light**'s higher intensity sets it apart, influencing how it interacts with surfaces for enhanced detection.
- **Ideal for low-reflectivity objects:** Its short-wave nature and higher surface reflection make it perfect for detecting low-reflectivity objects, particularly those with dark surfaces.

#### Blue Light unveils the invisible

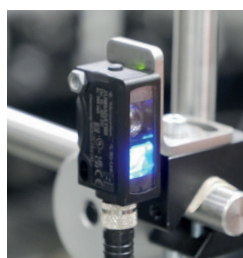
- **Versatile object detection:** **Blue Light** sensors allow to detect various objects, including deep black, reflective, curved, angled, shiny, and transparent ones.
- **Ideal for tight spaces:** **Blue Light** sensors are particularly well-suited for installations in confined spaces, thanks to their exceptional performance even with challenging angles.
- **Unparalleled process reliability:** Precise transmitting and receiving technology ensures unmatched process reliability, surpassing that of red-light sensors.

#### Small sensors, big solutions for compact spaces

- **Compact versatility:** XUT sensors excel in tight places, making them ideal for machinery and packaging lines.
- **Durable simplicity:** Their reinforced glass-fibre build ensures both toughness and straightforward operation, simplifying sensor needs in challenging environments.

#### Elevate configurations for the smart factory revolution

Our sensor prioritises user-friendliness, ensuring easy setup either with a teach button or via IO-Link communication. Plus, it offers various teaching methods, including 2-point teach, object teach, and dynamic teach. The XUT also introduces a window mode, exclusively focusing on precise object detection.

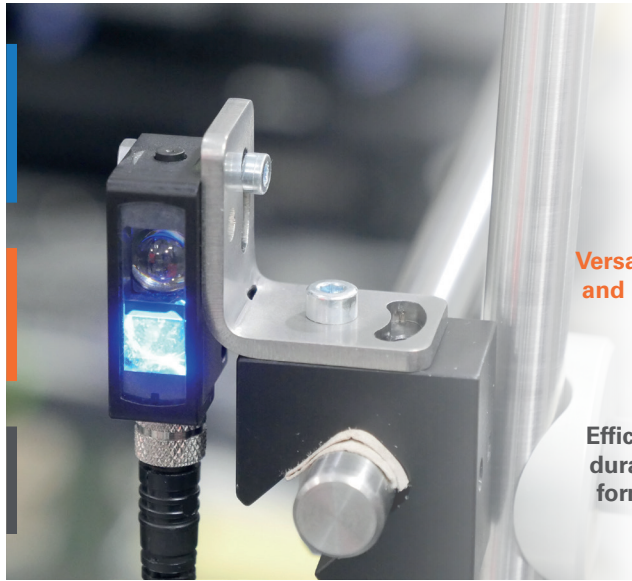


**ECOLAB**

**IO-Link**



## Benefits and Features



**Expanding detection horizons**

**Versatile teach-in and user-friendly controls**

**Efficiency meets durability: Three form factors for excellence**

**From short to long scanning distance:** 80 mm to 1.2 metres

**Reliable detection:** Including highly transparent or light-absorbing objects

**Easy alignment:** Visible light spot for precise adjustment

**Simplify sensor setup:** Teach-in, control input, and IO-Link adjustments

**Fixed settings or flexible teaching methods:** single point, two points or window




**Clear and intuitive HMI** for effective setting feedback

**Simplified installation** with innovative dovetail mounting concept




**Built to last:** Robust glass-fibre-reinforced housing

**Packaging-ready:** IP67/IP69K and ECOLAB certified

### Fixed Bluelight sensors – BGS (background suppression)

	Nominal sensing distance	Sensor size	Degree of protection	Connector type	Part number IO-Link
	80 mm / 3.15 in.	Miniature	IP67 / IP69K	M8 connector	XUM7ABPXM8
	80 mm / 3.15 in.	Miniature	IP67 / IP69K	Cable 2 m, 4 wires	XUM7ABPXL2
	50 mm / 1.96 in.	Sub-miniature	IP67	Pigtail 200 mm M8	XUT7ABXP02
	50 mm / 1.96 in.	Sub-miniature	IP67	Cable 2 m, 4 wires	XUT7ABPXL2

### Adjustable (teach button) Bluelight sensors – BGS (background suppression)

	Nominal sensing distance	Sensor size	Degree of protection	Connector type	Part number IO-Link
	200 mm / 7.87 in.	Miniature	IP67 / IP69K	M8 connector	XUM8ABAYM8
	200 mm / 7.87 in.	Miniature	IP67 / IP69K	Pigtail 150 mm M12	XUM8ABAYP015
	50 mm / 1.96 in.	Sub-miniature	IP67	Pigtail 200 mm M8	XUT8ABAYP02
	50 mm / 1.96 in.	Sub-miniature	IP67	Cable 2 m, 4 wires	XUT8ABAYL2

### Adjustable (potentiometer) Bluelight sensors – BGS (background suppression)

	Nominal sensing distance	Sensor size	Degree of protection	Connector type	Part number IO-Link
	1200 mm / 47.24 in.	Compact	IP67 / IP69K	M12 connector	XUK8ABPXM12

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SAS au capital de 301 931 214 €  
Tour Egho  
2 Avenue Gambetta  
92400 Courbevoie  
908 125 255 RCS de Nanterre  
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