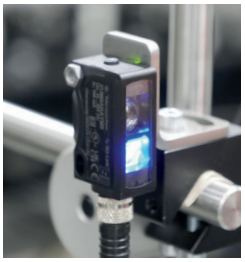
Blue Light sensor: Unveiling the unseen



IP67 Dust tight • Imm. short periods

IP69K Dust tight • High pressure jets

ECOLAB

IO-Link

Simply easy!

tesensors.com

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

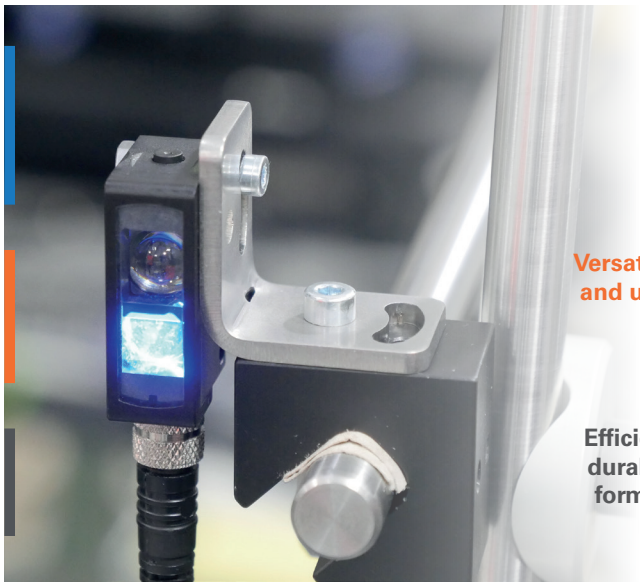
- **Compact versatility:** XUT sensors excel in tight places, making them ideal for machinery and packaging lines.
- **Durable simplicity:** Their reinforced glass-fibre build ensures both toughness and straightforward operation, simplifying sensor needs in challenging environments.

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.

Telemecanique Sensors

Benefits and Features



Expanding detection horizons

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

Versatile teach-in and user-friendly controls

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

Efficiency meets durability: Three form factors for excellence

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
	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	XUT7ABPXP02
	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
	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
	1200 mm / 47.24 in.	Compact	IP67 / IP69K	M12 connector	XUK8ABPXM12

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TMSS France SAS
Share capital: 366 931 214 euros
2 Avenue Gambetta - Tour Eqho
92400 Courbevoie
908 125 255 RCS de Nanterre
www.telemecaniquesensors.com

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