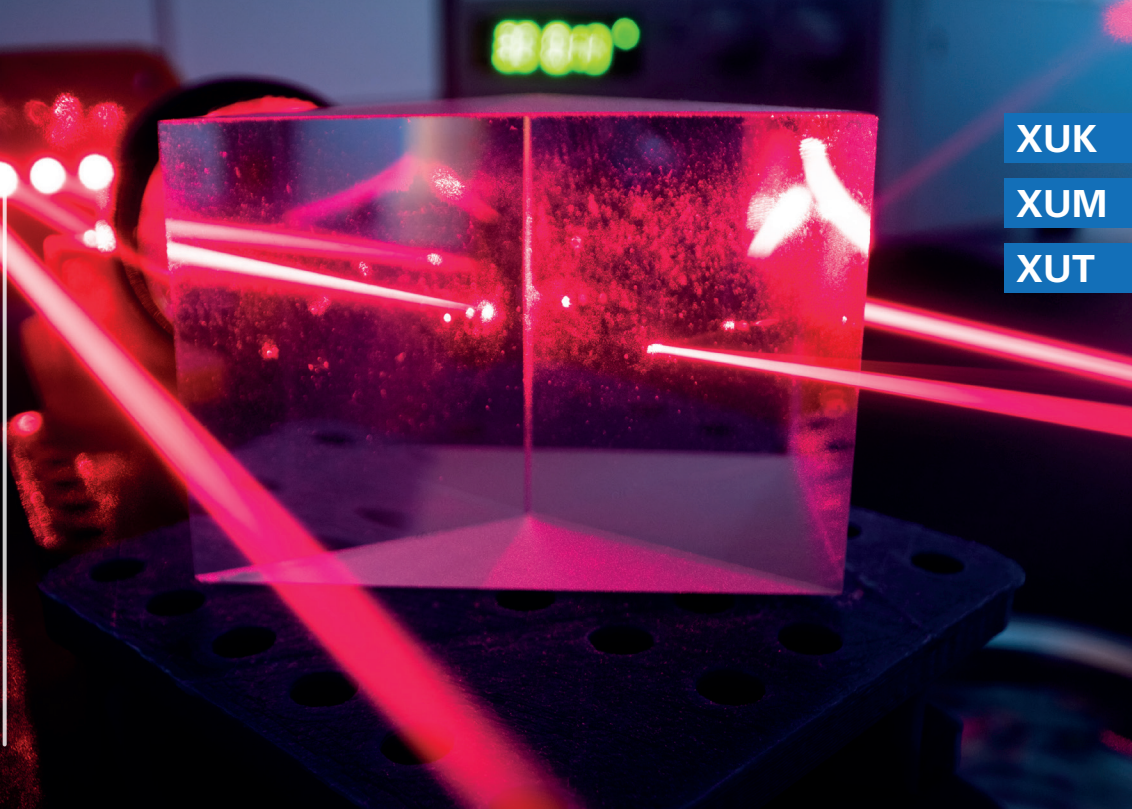**XUK**

XUM

XUT

XUM Laser BGS sensors

Precise detection of cartons' presence

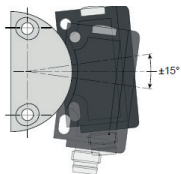## Discover ultra-precise miniature lasers!

XUT

XUM

XUK

±15°

Looking for sensors that redefine performance, size and connectivity in packaging machinery?

Unprecedented detection performance

- **Versatility:** Our OEM sensors offer 3 distinct detection modes: diffuse, BGS (Background Suppression) and reflex, ensuring adaptability in a wide range of applications.
- **Exceptional range:** With sensing distances spanning from 70 mm to an impressive 13 meters. Our laser sensors cover all your detection needs, from the smallest components to the largest assemblies.
- **Laser precision:** Featuring a laser spotlight, our sensors guarantee pinpoint accuracy. So it reads, even for the most intricate object detection.
- **Rapid responsiveness:** Boasting a detection speed of up to 10 kHz, these sensors keep your production rate at the highest level.

Compact size and robustness

- **Space efficiency:** Available in compact, miniature and sub-miniature formats, our sensors are designed to fit easily into the tiniest spaces within your machinery.
- **Durable design:** The sensors are built to withstand demanding packaging environments with high IP degree protection. They're ECOLAB-certified for food and beverage applications, guaranteeing long-lasting performance.
- **Small object & contrast marks detection (for diffuse only):** Our laser sensors excel in the detection of small objects and contrast marks, providing accurate precision in packaging processes.

Effortless settings and connectivity

- **User-friendly interface:** Equipped with a teach button and a visible HMI featuring bright LEDs, Telemecanique Sensors offers a user-friendly setup and monitoring, simplifying your packaging operations.
- **Remote configuration:** Our new laser sensors also support remote setting adjustments through IO-Link, providing convenience and adaptability in real-time.

Simply easy!

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Telemecanique Sensors

Laser Sensors – Diffuse mode detection

	Body format	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	Miniature	250 mm / 9.84 in.	4000 Hz	IP67 / IP69K	M8 connector	XUM5ALAYM8
	Miniature	250 mm / 9.84 in.	4000 Hz	IP67 / IP69K	Pigtail 150 mm M12	XUM5ALAYP015
	Miniature	250 mm / 9.84 in.	4000 Hz	IP67 / IP69K	Cable, 2 m	XUM5ALAYL2
	Compact	1.2 m / 39.3 in.	250 Hz	IP67 / IP69K	Cable, 2 m	XUK5LAPSMM12

Laser Sensors – BGS (Background suppression) mode detection

	Body format	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	Sub-miniature	70 mm / 2.75 in.	800 Hz	IP67	Pigtail 150 mm M8	XUT8ALAYP02
	Sub-miniature	70 mm / 2.75 in.	800 Hz	IP67	Cable, 2 m, 4-wires	XUT8ALAYL2
	Miniature	150 mm / 5.9 in.	1000 Hz	IP67 / IP69K	M8 connector	XUM8ALAYM8
	Miniature	150 mm / 5.9 in.	1000 Hz	IP67 / IP69K	Pigtail 150 mm M12	XUM8ALAYP015
	Miniature	150 mm / 5.9 in.	1000 Hz	IP67 / IP69K	Cable, 2 m, 4-wires	XUM8ALAYL2
	Compact	800 mm / 31.5 in.	250 Hz	IP67 / IP69K	M12 connector	XUK8LAPPNM12

Laser Sensors – Reflex (with reflector) mode detection

	Body format	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	Sub-miniature	3 m / 118.1 in.	1000 Hz	IP67	Pigtail 150 mm M8	XUT9ALPXL2
	Sub-miniature	3 m / 118.1 in.	1000 Hz	IP67	Cable, 2 m, 4-wires	XUT9ALPXP02
	Miniature	10 m / 393.7 in.	10 000 Hz	IP67 / IP69K	M8 connector	XUM9ALAYM8
	Miniature	10 m / 393.7 in.	10 000 Hz	IP67 / IP69K	Pigtail 150 mm M12	XUM9ALAYP015
	Miniature	10 m / 393.7 in.	10 000 Hz	IP67 / IP69K	Cable, 2 m, 4-wires	XUM9ALAYL2
	Compact	14 m / 551 in.	250 Hz	IP67 / IP69K	M12 connector	XUK9LAPSMM12

Laser Sensors – Thru-beam mode detection

	Body format	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	Compact Transmitter	30 m / 1181 in.	250 Hz	IP67 / IP69K	M12 connector	XUK2LAKSMM12T
	Compact Receiver	30 m / 1181 in.	250 Hz	IP67 / IP69K	M12 connector	XUK2LAPSMM12R

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