



XUM Miniature contrast sensors

For easy detection of cutting positions



Unlock the power of precision: Miniature mark reader for packaging machineries



- White LED
- RGB LED
- Laser LED
- Color LED



Simply easy!

tesensors.com

A wide range of contrast sensors for high and reliable mark detection





The right contrast sensor for your application

In sensor applications, reliable contrast marker detection is crucial. The type of emitted light greatly impacts reliability, and our sensors offer four distinct light sources. This empowers customers to choose the optimal light source for specific materials and contrast marker colors in packaging and labelling processes.

- **White light:** for simple contrast detection, cost effective and high switching frequency.
- **RGB light:** for more accurate contrast between the mark and the background.
- **Laser light:** for very small markers even at a high sensing distance.
- **RGB color light:** for accurate color marks on printed packaging.

Need for performances ?

Explore our fast contrast sensors

-  15 times smaller than conventional print mark sensors, the new miniature size has been designed for **small spaces** in packaging machines.
-  Intended for use in environments where the sensors require frequent cleaning using chemical agents.
-  Fast contrast detection: sensors are engineered to swiftly identify contrasts, making them highly efficient.
-  Thanks to its intense light spot and impressive depth of field, this system excels in reliably detecting even small printed marks and recognizing vibrating and shimmering objects.

Enhanced configurations for smart factories

The sensor is incredibly user-friendly, offering hassle-free setup through a teach button or via IO-Link communication. Additionally, our sensors provide clear light feedback, indicating the quality of the calibrated contrast.

Easily installed and always connected, receive real-time information seamlessly via IO-Link for optimized usage and maintenance. When it comes to sensor replacement it's easy to adapt previous sensor configurations into a new one via IO-Link.

White light



- White spot detection
- For high contrast difference (mark & background)
- Short sensing distance
- Frequency 10 kHz

RGB light



- 3 color light spot
- Accurate contrast detection
- Medium sensing distance
- Frequency 10 kHz

Laser light

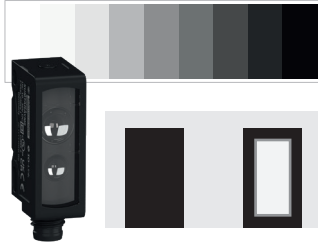


- Very small spot
- Accurate contrast detection
- Long sensing distance
- Frequency 4 kHz

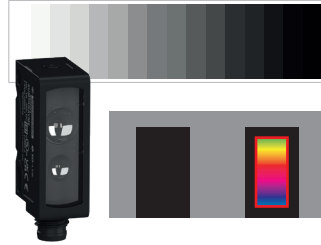
RGB light



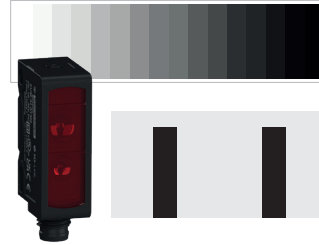
- 3 color light spot
- Accurate contrast detection
- Medium sensing distance
- Frequency 10 kHz



Mark size > 1mm



>1mm




<1mm




>1mm


Mark reader sensors – White light

	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	12 mm / 0.59 in.	25 kHz	IP67 / IP69K	M8 connector	XUMRAWAYM8
	12 mm / 0.59 in.	25 kHz	IP67 / IP69K	Pigtail 150 mm M12	XUMRAWAYP015

Mark reader sensors – RGB (red-green-blue) light

	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	15 mm / 0.59 in.	10 kHz	IP67 / IP69K	M8 connector	XUMRAGAYM8
	15 mm / 0.59 in.	10 kHz	IP67 / IP69K	Pigtail 150 mm M12	XUMRAGAYP015

Mark reader sensors – Laser light

	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	250 mm / 0.59 in.	4 kHz	IP67 / IP69K	M8 connector	XUM5ALAYM8
	250 mm / 0.59 in.	4 kHz	IP67 / IP69K	Pigtail 150 mm M12	XUM5ALAYP015
	250 mm / 0.59 in.	4 kHz	IP67 / IP69K	Cable 2 m	XUM5ALAYL2

Color mark reader sensors – RGB (red-green-blue) light

	Nominal sensing distance	Switching frequency	Degree of protection	Connector type	Part number IO-Link
	12 mm / 0.59 in.	10 kHz	IP67 / IP69K	M8 connector	XUMRACAYM8

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