



## LUT2

High performance in miniature format

LUMINESCENCE SENSORS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Sensing distance</b>	12.5 mm <sup>1)</sup>
<b>Type of light</b>	LED, Ultraviolet light <sup>2)</sup>
<b>Light emission</b>	Long side
<b>Switching frequency</b>	0.5 kHz <sup>3)</sup> 2 kHz 0.5 kHz <sup>4)</sup>
<b>Response time</b>	1,000 µs / 250 µs <sup>5)</sup> 1 ms / 250 µs <sup>5)</sup>
<b>Adjustment</b>	Static teach-in / Static 2-point teach-in (depending on type)
<b>Connection type</b>	Male connector M12, 4-pin

<sup>1)</sup> From front edge of lens.

<sup>2)</sup> Average service life: 100,000 h at T<sub>U</sub> = +25 °C.

<sup>3)</sup> With light/dark ratio 1:1, without timer stage.

<sup>4)</sup> With light/dark ratio 1:1.

<sup>5)</sup> Signal transit time with resistive load.

### Product description

Compact machines, e.g. in the packaging industry, frequently offer little installation space only. The LUT2 is ideal for all applications where fluorescent marks need to be reliably detected in confined spaces. The mini-luminescence sensor can very easily be adjusted using a teach-in procedure. Thanks to a switching frequency of up to 2 kHz the LUT2 is also suitable for high machine production capacities.

### At a glance

- Small housing
- Switching threshold adjustment for low fluorescence levels
- Static teach-in on mark and/or background via control panel or control cable
- Fast switching speed 0.5 kHz and 2 kHz

### Your benefits

- Its compact size enables space-saving installation
- Simple setting via 2-point teach
- Fast response time for high speeds

## Ordering information

Other models and accessories → [www.sick.com/LUT2](http://www.sick.com/LUT2)

- **Communication interface:** -
- **Light source:** LED, Ultraviolet light (Average service life: 100,000 h at  $T_U = +25 \text{ }^\circ\text{C}$ .)

Sensing distance	Switching output	Light spot size	Connection type Detail	Type	Part no.
≤ 12.5 mm	PNP	2 mm x 2.5 mm	Male connector M12, 4-pin	LUT2-P1116	1023500

- **Light source:** LED, Ultraviolet light (Average service life: 100,000 h at  $T_U = +25 \text{ }^\circ\text{C}$ .)

Sensing distance	Switching output	Light spot size	Connection type Detail	Type	Part no.
≤ 12.5 mm	NPN	2 mm x 2.5 mm	Male connector M12, 4-pin	LUT2-N1116	1023501
		2 mm x 2.5 mm <sup>1)</sup>	Male connector M12, 4-pin	LUT2-2N1116	1048506
	PNP	2 mm x 2.5 mm <sup>1)</sup>	Male connector M12, 4-pin	LUT2-2P1116	1048505

<sup>1)</sup> At sensing distance.

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)