



LUT8

For universal use with easy adjustment

LUMINESCENCE SENSORS

SICK
Sensor Intelligence.



Technical data overview

Sensing distance	10 mm ¹⁾ 20 mm ¹⁾ 50 mm ¹⁾ 90 mm ¹⁾
Type of light	LED, Ultraviolet light ²⁾
Light emission	Long side
Switching frequency	2.5 kHz ³⁾
Response time	200 µs ⁴⁾
Analog output Q_A	0 mA ... 13 mA
Connection type	Male connector M12, 5-pin

¹⁾ From front edge of lens.

²⁾ Average service life: 100,000 h at T_U = +25 °C.

³⁾ With light/dark ratio 1:1.

⁴⁾ Signal transit time with resistive load.

Product description

The strength of the LUT8 is its straightforward operating concept. The sensitivity of the LUT8, and the switching reliability, can easily be adapted to the mark to be detected with the help of the 8-position rotary switch. An additional advantage is the bar graph display which visualizes the luminescence intensity of the mark and that of the background.

At a glance

- Tough metal housing
- Simple sensitivity adjustment in 8 stages
- Bar graph display provides information about the luminescence intensity
- Sensing distances selectable through interchangeable lenses
- Additional optical filters suppress background luminescence
- Fiber-optic cable connection (with 20 mm lens)
- Switching and analog output

Your benefits

- An 8-step rotary switch easily adjusts to accurately determine the switching output position for different materials
- Bar graph display provides continual process control through easy visualization of the luminescence intensity
- Filters ensure that background luminescence is reliably suppressed, ensuring greater process reliability
- Interchangeable lenses for different sensing distances provide flexibility

Ordering information

Other models and accessories → www.sick.com/LUT8

- **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.
≤ 10 mm	PNP, NPN	2 mm x 6 mm	Male connector M12, 5-pin	LUT8U-11101	1046711
≤ 20 mm	PNP, NPN	3 mm x 9 mm	Male connector M12, 5-pin	LUT8U-11201	1047042
≤ 50 mm	PNP, NPN	5 mm x 15 mm	Male connector M12, 5-pin	LUT8U-11301	1047043
				LUT8U-11311	1047045
				LUT8U-11321	1047046
				LUT8U-11331	1047047
		∅ 6 mm	Male connector M12, 5-pin	LUT8U-11701	1047048
≤ 90 mm	PNP, NPN	12 mm x 12 mm	Male connector M12, 5-pin	LUT8U-11401	1047044

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