



# KT8

Laser contrast sensor

**SICK**  
Sensor Intelligence.



## Technical data overview

|                                |                                |
|--------------------------------|--------------------------------|
| <b>Communication interface</b> | -                              |
| <b>Dimensions (W x H x D)</b>  | 30.4 mm x 53 mm x 80 mm        |
| <b>Sensing distance</b>        | 150 mm <sup>1)</sup>           |
| <b>Type of light</b>           | Laser, red <sup>2)</sup>       |
| <b>Switching output</b>        | NPN<br>PNP (depending on type) |
| <b>Connection type</b>         | Male connector M12, 5-pin      |

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

<sup>2)</sup> Average service life: 50,000 h at T<sub>U</sub> = +25 °C.

## Product description

The KT8 sensor family features two variants. The first variant, the KT8L, enables very reliable detection of the smallest contrast marks and objects thanks to the precise laser. Lasers are used in contrast sensors for long sensing distances (up to 800 mm) or for detecting very small objects. The KT8L gives you both! Thanks to the two light spot sizes, the smallest elements can be detected with < 0.3 mm and larger objects and marks with approx. 3 mm. 3-color LED, gloss adjustment, automatic drift correction and short response times are what make this device the ideal product.

## At a glance

- Laser variant with sensing range from 30 mm bis 800 mm
- Very small and precise laser light spot (class 2)
- High switching sequence of 17 kHz
- Display of detection reliability via control panel
- Very precise light spot

## Your benefits

- Versatile use for various distances from sensor to sensing object
- Precise detection of the smallest marks and objects, e.g. 1 x 1 mm<sup>2</sup>
- Reliable operation even in the event of object jitter
- Access to the sensor with the controller saves the machine operator time and effort during parameterization
- Individualized parameterization and setting specifically tailored to the application
- Automatic drift correction enables maximum production reliability, for example in the event of weakening print marks
- Reliable operation with high-gloss foils ensures high machine availability

## Ordering information

Other models and accessories → [www.sick.com/KT8](http://www.sick.com/KT8)

- **Housing design:** large
- **Communication interface:** -
- **Sensing distance:** ≤ 150 mm
- **Light emission:** Long side of housing

| Switching output | Light spot size | Light spot direction | Connection type Detail    | Type       | Part no. |
|------------------|-----------------|----------------------|---------------------------|------------|----------|
| NPN              | Ø 0.3 mm        | Round                | Male connector M12, 5-pin | KT8L-N3656 | 1041263  |
|                  | Ø 3 mm          | Round                | Male connector M12, 5-pin | KT8L-N3756 | 1041352  |
| PNP              | Ø 0.3 mm        | Round                | Male connector M12, 5-pin | KT8L-P3656 | 1041262  |
|                  | Ø 3 mm          | Round                | Male connector M12, 5-pin | KT8L-P3756 | 1041351  |

## 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)