KT8
Laser contrast sensor

SICK
Sensor Intelligence.

Technical data overview

Communication interface	-
Dimensions (W x H x D)	30.4 mm x 53 mm x 80 mm
Sensing distance	150 mm [1]
Type of light	Laser, red [2]
Switching output	NPN PNP (depends on variant)
Connection type	Plug, M12, 5-pin

[1] From leading edge of lens.

[2] Average service life: 50,000 h at T_U = +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 two light spot sizes, elements under 3 mm as well as objects and marks over 3 mm in size can be detected. 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 mm²
- 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

- **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	Plug, M12, 5-pin	KT8L-N3656	1041263
	Ø 3 mm	Round	Plug, M12, 5-pin	KT8L-N3756	1041352
PNP	Ø 0.3 mm	Round	Plug, M12, 5-pin	KT8L-P3656	1041262
	Ø 3 mm	Round	Plug, 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."

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