

SENSE WITH PERFECTION – CONVERGENT MODE INCLUDED

MINIATURE SENSOR ML8-8-HGU

- Sensors for printed circuit board detection with 30 or 50 mm detection ranges
- Reliably detects printed circuit boards using a long and very narrow light spot
- Ignores holes, indentations and components on the circuit board
- Reliable background blanking
- Plug & Play device, tamperproof
- Insensitive to ambient light, including high-frequency fluorescent lamps
- Additional LED behind the front lens optimizes visibility



MINIATURE SENSOR ML8-8-HGU

The miniature sensor ML8-8-HGU is optimized for the detection of printed circuit boards with an elongated and narrow light spot. Therefore the sensor also detects edges in highest precision which enables also a very exact positioning of printed circuit boards. Holes, notches and components on the printed circuit boards will be ignored.



TECHNICAL DATA

Order code	ML8-8-HGU-50-RT	ML8-8-HGU-30-RT
Sensing range	25 mm ... 50 mm	15 mm ... 30 mm
Light source	Red LED	Red LED
Light spot diameter	Approx. 4 mm x 35 mm at 50 mm	Approx. 5 mm x 25 mm at 30 mm
Light beam angle	Transmitter 1.5° vertical, 35° horizontal	Transmitter 3° vertical, 35° horizontal
Operating voltage	10 ... 30 V DC, class 2	10 ... 30 V DC, class 2
Current consumption	< 20 mA	< 20 mA
Signal output	1 NPN output or 1 PNP output	1 NPN output or 1 PNP output
Operating mode	Light-on or dark-on switching	Light-on or dark-on switching
Switching voltage / current	max. 30 V DC / max. 100 mA	max. 30 V DC / max. 100 mA
Response time	1 ms.	1 ms.
Connection	2 m fixed cable or M8 quick disconnect, 4-pin	2 m fixed cable or M8 quick disconnect, 4-pin
Housing material	Plastic	Plastic
Ambient temperature	-20 °C ... 60 °C	-20 °C ... +60 °C
Dimensions	23 mm x 31 mm x 11 mm	23 mm x 31 mm x 11 mm

APPLICATIONS

- Detects printed circuit boards of various colors and materials, even glossy surfaces
- Accurate detection of printed circuit board position
- Detects very narrow edges, CDs, for example



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