



SENSE WITH PERFECTION – BACKGROUND SUPPRESSION INCLUDED

MINIATURE SENSOR ML8-8-H

- Sensors for printed circuit board detection with 30 and 50 mm detection ranges
- Ignores holes, indentations and components on the circuit board due to multiple light spots with very good visibility
- Highly reflective backgrounds are reliably suppressed
- 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-H

The type ML8-8-H operates with a number of light spots and is therefore the first true sensor with background suppression specially designed for the detection of printed circuit boards. Highly reflective backgrounds, such as aluminum carriers, are safely suppressed a few millimeters beyond the end of the sensing range. Indentations, holes and components on the circuit board are ignored.



TECHNICAL DATA

Order code	ML8-8-H-50-RT/.../162	ML8-8-H-30-RT/.../162
Sensing range	20 mm ... 50 mm	15 mm ... 30 mm
Light source	Red LED	Red LED
Light spot	2 light spots in a row (11 mm in total)	3 light spots in a row (12 mm in total)
Light spot diameter	Approx. 4 mm at 50 mm	Approx. 3.5 mm at 30 mm
Black-white difference	< 10 %	< 10 %
Operating voltage	10 V DC ... 30 V DC, class 2	10 V DC ... 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

- Excellent detection of all printed circuit boards, independent of surface, color and structure, from black matte to high gloss
- Accurate position detection
- Detects very narrow edges, CDs, for example



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