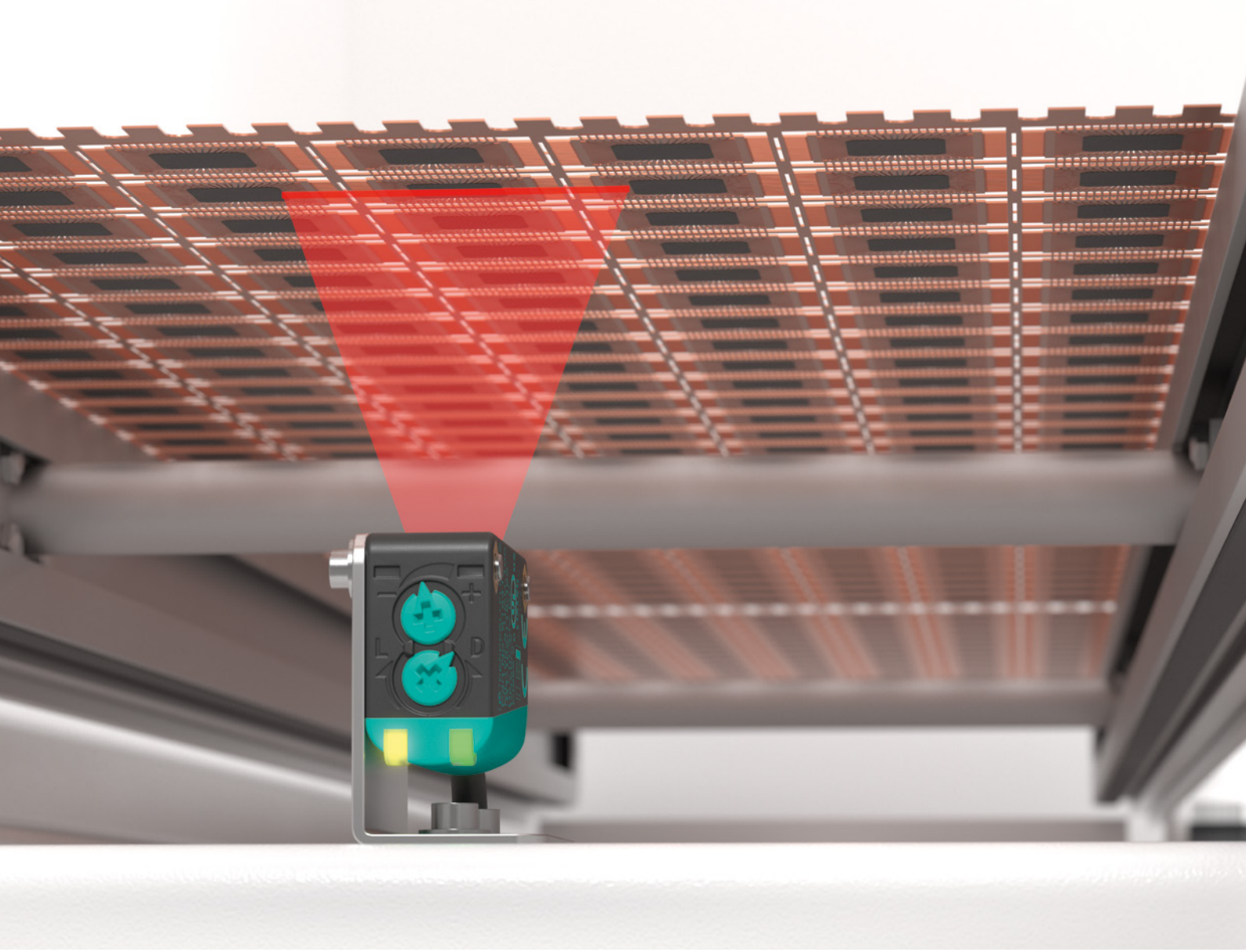
The Problem Solver.

Truly reliable. Highly versatile.
Solving complex applications.

ML100 Series –
Cubic Photoelectric Sensors



Your automation, our passion.

PEPPERL+FUCHS

ML100 Series

Simple Housing Concept, Advanced Optical Features

The ML100 sensor series combines advanced photoelectric technologies in a compact, rectangular housing. From simple diffuse sensors to specialized solutions with triple light spots or BlueBeam technology, it offers the right sensing solution for demanding automation tasks.



Benefits

- All basic optical functions available
- Easy mounting with M3 threaded metal bushings
- Highly visible emitter LED
- Bright and clear indicator LEDs
- Very low current consumption < 20 mA
- Protection against mutual interference
- Not senstitive to ambient light

Highlights

- Temperature range –30 °C to +60 °C
- Degree of protection (IP67)
- Sensitivity and LO/DO adjustment
- 2 m cable and M8 connector
- Single NPN and PNP outputs
- Green and yellow indicator LEDs
- M3 threaded mounting holes

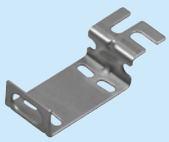
Application Areas

- Conveyors
- Automation
- Baggage handling
- PCB, PCBA production
- Lead frame handling
- Battery manufacturing
- Paper and textile machines

For more information, visit
pepperl-fuchs.com/pf-ml100

Type	ML100...	Light Type	Scanning Range	Response Time	Features	Applications
Retroreflective	**-54**	Red	4.5 m	0.5 ms	Standard, with polarization filter	Shiny or shrink-wrapped objects
	-55	Red	7 m	0.5 ms	Long range, with polarization filter	Opaque, non-shiny objects
	-54-F	Red	3 m	0.5 ms	Short dead band, with polarization filter	Textile and paper machines with reflector foil
	-54-GN	Green	2.2 m	0.5 ms	With polarization filter	Clear red or orange objects, pill bottles
	-55-G	Red	2.5 m	0.5 ms	Glass detection, teach-in	Transparent materials, e.g. glass
	-6-IR	IR	7 m	0.5 ms	w/o polarization filter, non-intrusive	Opaque, non-shiny objects
Diffuse	**-8**	Red	1 m	0.5 ms	Standard bright light spot	Opaque, diffuse objects
	-8-W	Red	200 mm	0.5 ms	Wide beam	Shiny, transparent or irregular objects
	-8-HGU-100-RT	Red	100 mm	1 ms	Elongated light spot	Irregular PCBA with holes or components
	-8-HGU-100-IR	IR	100 mm	1 ms	Elongated light spot	Irregular PCBA with holes or components
	-8-HGU-100-BU	Blue	100 mm	1 ms	Elongated light spot	Blue solar wafer and PCBA
Background Suppression	**-8-H-350-RT**	Red	350 mm	1 ms	Standard, long range	Opaque object
	-8-H-250-RT	Red	250 mm	0.5 ms	Basic	Opaque object
	-8-H-250-BU	Blue	250 mm	1 ms	Blue emitter	Blue solar wafer, PCB
	-8-H-200-IR	IR	200 mm	1 ms	Non-intrusive	Opaque object, low color sensitivity
	-8-H-100-RT	Red	100 mm	0.5 ms	Small single spot	Small and fast-moving objects
	-8-H-100...162	Red	100 mm	1 ms	Triple spots	Irregular objects with voids
Background Evaluation	**-8-HW-350**	Red	350 mm	1 ms	Background evaluation	Object in front of fixed background
Thru-Beam	**-RT**	Red	15 m	0.5 ms	Standard	Opaque object, dusty environments
	-RT/35	Red	30 m	2 ms	Long range	Opaque object, dusty environments
	-IR	IR	20 m	2 ms	Non-intrusive	Opaque object, dusty environments
	-6090	Red	4 m	0.5 ms	Vertical aperture	Thin object, accurate positioning Aperture sizes: 7.4 mm × 1.5 mm [-6090] 5.5 mm × 2 mm [-6091] 7.4 mm × 0.8 mm [-6757]
	-6091	Red	4 m	0.5 ms	Horizontal aperture	
	-6757	Red	2 m	0.5 ms	Vertical aperture	

Mounting Brackets



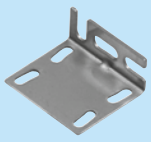
OMH-ML100-01



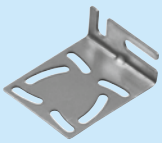
OMH-ML100-02



OMH-ML100-03



OMH-ML100-04



OMH-ML100-05



OMH-ML100-10

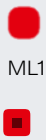
Light spots at 100 mm



ML100-08



ML100 -8-H-350



ML100 -8-H-100

ML100 -8-H-100 @70mm



ML100 -8-H-100...162



ML100 -8-HGU-100...162

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- Industrial Communication and Interfaces
- Enterprise Mobility
- Hazardous Area Products and Solutions

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