

Photoelectric Sensors

Maximum Efficiency Through High-Performance Technology

Photoelectric sensors from Pepperl+Fuchs offer innovative sensor solutions advanced through extensive experience and continuous development. Powerful technologies such as Pulse Ranging Technology, Multi Pixel Technology, and end-to-end IO-Link integration guarantee highly efficient applications.

Innovations for Industrial Automation

With the development of its Pulse Ranging Technology (PRT), Pepperl+Fuchs unlocked the potential to use direct light runtime measurement in commercial industries for the first time. The world's first 360° 2-D laser scanner R2000 completely revolutionized the navigation of driverless transportation systems. With innovations such as these, Pepperl+Fuchs has shaped the world of automation from the very beginning. Continuous development enables you to carry on creating new, even more efficient application solutions, both now and in the future.

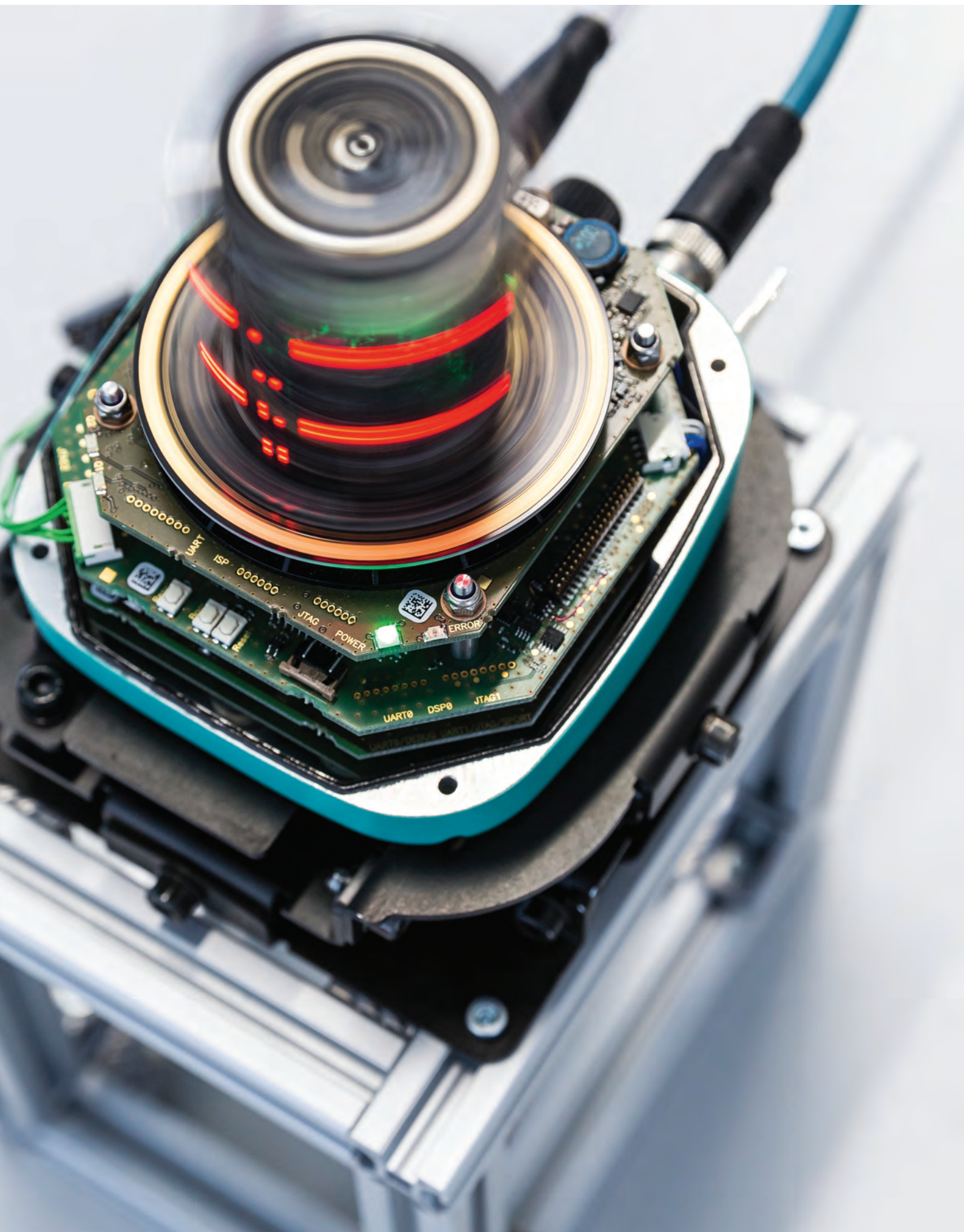
Outstanding Flexibility with a Coordinated Portfolio

Tailored to the requirements of industrial automation, the portfolio of photoelectric sensors delivers the right solution for every application, every time. Various function principles, from classic thru-beam sensors and diffuse mode sensors to high-performance distance sensors, are available in miniature, standard, and special designs.



More information is available at:
www.pepperl-fuchs.com/fa-opto





Light Barriers / Diffuse Mode Sensors

Flexibility Redefined

The overarching concept of optoelectronic standard light barriers is to integrate multiple function principles end-to-end into identical standard designs. This means that regardless of the installation situation, the right sensor is always available as a thru-beam sensor, retroreflective sensor, diffuse mode sensor, or switching sensor with measurement core.



Typical Applications

- Small part detection
- Component inspection for printed circuit boards
- Front edge detection on conveyor belts
- Detection of transparent objects
- Object positioning

Your Benefits at a Glance

- End-to-end integration of photoelectric function principles into identical standard designs for outstanding flexibility
- Choice of various cubic and cylindrical standard designs
- Innovative DuraBeam laser technology for extra-long service life and increased operating temperature range, even in especially small designs
- Communication down to sensor level with IO-Link



Technical Features

- A complete portfolio of function principles is available, from thru-beam sensors, retroreflective sensors, and diffuse mode sensors to special function principles such as switching sensors with measurement cores (available in the R10x series, among others)
- Various light sources (red light, infrared light, and laser) for optimal adaptation to the application
- Comprehensive range of accessories for mounting brackets, reflectors, and alignment aids
- Degree of protection of up to IP69K



Multi Pixel Technology (MPT) for Precise, Near-Range Distance Measurement

Distance sensors are also available in small to medium-sized standard designs. The compact size of the measurement core enables the most precise, reliable, and adaptable distance measurement for near-range applications.

More information is available at:
www.pepperl-fuchs.com/fa-mpt



Light Barriers / Diffuse Mode Sensors

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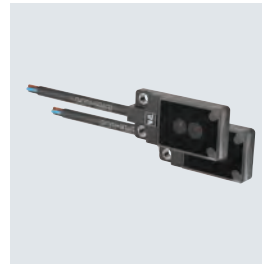
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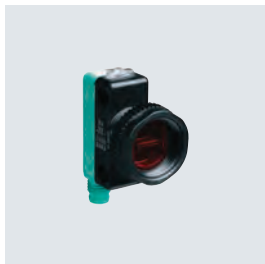
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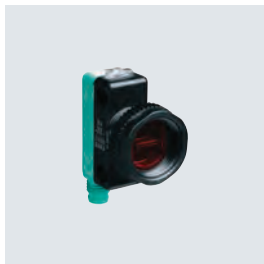
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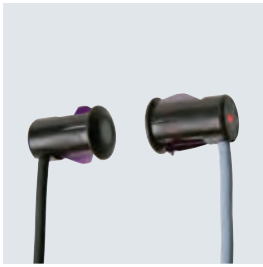
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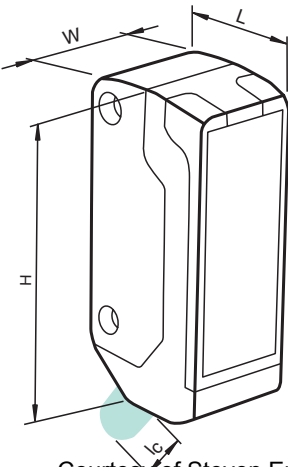
Thru-Beam Sensors



Standard Technical Data	
Function principle	Thru-beam sensor
Voltage type	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBE1000-R2-SE0-L	1000	Red laser diode	NPN	12	24	Fixed cable
OBE1000-R2-SE2-0,2M-V31-L	1000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE1000-R2-SE2-L	1000	Red laser diode	PNP	12	24	Fixed cable
OBE2000-R2-SE0	2000	Red LED	NPN	10	30	Fixed cable
OBE2000-R2-SE0-0,2M-V31	2000	Red LED	NPN	10	30	Fixed cable with M8 plug
OBE2000-R2-SE2	2000	Red LED	PNP	10	30	Fixed cable
OBE2000-R2-SE2-0,2M-V31	2000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE2000-R2-SE3	2000	Red LED	PNP	10	30	Fixed cable
OBE10M-R2-SE0-L	10000	Red laser diode	NPN	12	24	Fixed cable
OBE10M-R2-SE2-0,2M-V31-L	10000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE10M-R2-SE2-L	10000	Red laser diode	PNP	12	24	Fixed cable



Accessories	
MH-R2-01	Mounting aid for sensors from the R2 series, mounting bracket
MH-R2-02	Mounting aid for sensors from the R2 series, mounting bracket
MH-R2-03	Mounting aid for sensors from the R2 series, mounting bracket
MH-R2-04	Mounting aid for sensors from the R2 series, mounting bracket
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R2 Series

Retroreflective Sensors

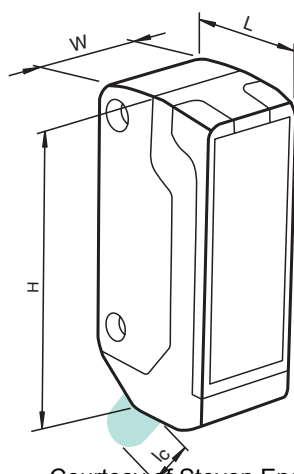


Standard Technical Data

Function principle	Retroreflective sensor with polarization filter
Voltage type	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBR1000-R2-E0	1000	Red LED	NPN	10	30	Fixed cable
OBR1000-R2-E0-0,4M-V3	1000	Red LED	NPN	10	30	Other
OBR1000-R2-E2	1000	Red LED	PNP	10	30	Fixed cable
OBR1000-R2-E2-0,2M-V3	1000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBR1000-R2-E2-0,2M-V31	1000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBR2000-R2-E0-L	2000	Red laser diode	NPN	12	24	Fixed cable
OBR2000-R2-E2-0,2M-V31-L	2000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBR2000-R2-E2-L	2000	Red laser diode	PNP	12	24	Fixed cable



Accessories

MH-R2-02	Mounting aid for sensors from the R2 series, mounting bracket
MH-R2-03	Mounting aid for sensors from the R2 series, mounting bracket
MH-R2-04	Mounting aid for sensors from the R2 series, mounting bracket
REF-H40	Rectangular reflector, 47.5 mm x 23.5 mm, mounting holes, retaining tab
REF-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes
REF-MH23	Rectangular reflector with microstructure, 23 mm x 13.8 mm, diagonal mounting hole
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable

R2 Series

Diffuse Mode Sensors



Standard Technical Data

Voltage type	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBT15-R2-E0	With background suppression	15	Red LED	NPN	10	30	Fixed cable
OBT15-R2-E0-1T	With background evaluation	15	Red LED	NPN	10	30	Fixed cable
OBT15-R2-E0-L	With background suppression	15	Red laser diode	NPN	12	24	Fixed cable
OBT15-R2-E2	With background suppression	15	Red LED	PNP	10	30	Fixed cable
OBT15-R2-E2-0,2M-V3	With background suppression	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R2-E2-0,2M-V31	With background suppression	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R2-E2-0,2M-V31-L	With background suppression	15	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT15-R2-E2-1T	With background evaluation	15	Red LED	PNP	10	30	Fixed cable
OBT15-R2-E2-L	With background suppression	15	Red laser diode	PNP	12	24	Fixed cable
OBT20-R2-E0	With background suppression	20	Red LED	NPN	10	30	Fixed cable
OBT20-R2-E2-0,2M-V31	With background suppression	20	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R2-E0	With background suppression	30	Red LED	NPN	10	30	Fixed cable
OBT30-R2-E0-0,4M-V3	With background suppression	30	Red LED	NPN	10	30	Other
OBT30-R2-E0-1T	With background evaluation	30	Red LED	NPN	10	30	Fixed cable
OBT30-R2-E0-L	With background suppression	30	Red laser diode	NPN	12	24	Fixed cable
OBT30-R2-E2	With background suppression	30	Red LED	PNP	10	30	Fixed cable
OBT30-R2-E2-0,2M-V3	With background suppression	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R2-E2-0,2M-V31	With background suppression	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R2-E2-0,2M-V31-L	With background suppression	30	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT30-R2-E2-1T	With background evaluation	30	Red LED	PNP	10	30	Fixed cable
OBT30-R2-E2-L	With background suppression	30	Red laser diode	PNP	12	24	Fixed cable
OBT40-R2-E0	With background suppression	40	Red LED	NPN	10	30	Fixed cable
OBT40-R2-E2-0,2M-V31	With background suppression	40	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT50-R2-E0	With background suppression	50	Red LED	NPN	10	30	Fixed cable
OBT50-R2-E0-1T	With background evaluation	50	Red LED	NPN	10	30	Fixed cable
OBT50-R2-E0-L	With background suppression	50	Red laser diode	NPN	12	24	Fixed cable
OBT50-R2-E2	With background suppression	50	Red LED	PNP	10	30	Fixed cable
OBT50-R2-E2-0,2M-V3	With background suppression	50	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT50-R2-E2-0,2M-V31	With background suppression	50	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT50-R2-E2-0,2M-V31-L	With background suppression	50	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT50-R2-E2-1T	With background evaluation	50	Red LED	PNP	10	30	Fixed cable
OBT50-R2-E2-L	With background suppression	50	Red laser diode	PNP	12	24	Fixed cable
OBT50-R2-E3-0,2M-V31	With background suppression	50	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT80-R2-E0	With background suppression	80	Red LED	NPN	10	30	Fixed cable
OBT80-R2-E0-L	With background suppression	80	Red laser diode	NPN	12	24	Fixed cable
OBT80-R2-E2	With background suppression	80	Red LED	PNP	10	30	Fixed cable
OBT80-R2-E2-0,2M-V3	With background suppression	80	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT80-R2-E2-0,2M-V31	With background suppression	80	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT80-R2-E2-0,2M-V31-L	With background suppression	80	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT80-R2-E2-L	With background suppression	80	Red laser diode	PNP	12	24	Fixed cable

R2F Series

Thru-Beam Sensors

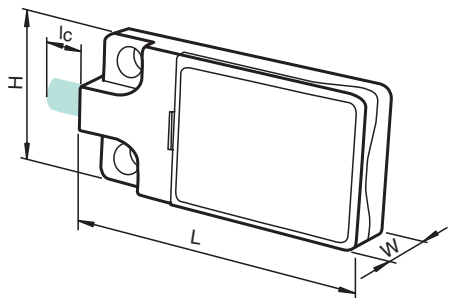


Standard Technical Data	
Function principle	Thru-beam sensor
Voltage type	DC
Housing length L	4.1 mm
Housing width W	12 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBE500-R2F-SE0	500	Red LED	NPN	10	30	Fixed cable
OBE500-R2F-SE0-L	500	Red laser diode	NPN	12	24	Fixed cable
OBE500-R2F-SE2	500	Red LED	PNP	10	30	Fixed cable
OBE500-R2F-SE2-0,2M-V31	500	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE500-R2F-SE2-0,2M-V31-L	500	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE500-R2F-SE2-L	500	Red laser diode	PNP	12	24	Fixed cable
OBE1500-R2F-SE0-L	1500	Red laser diode	NPN	12	24	Fixed cable
OBE1500-R2F-SE2-0,2M-V31-L	1500	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE1500-R2F-SE2-L	1500	Red laser diode	PNP	12	24	Fixed cable

Accessories	
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R2F Series

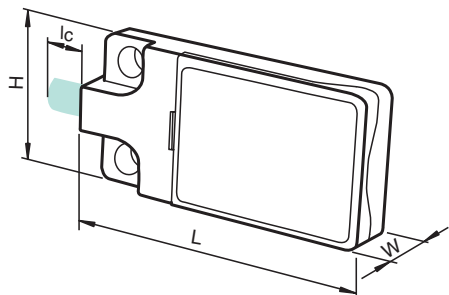
Retroreflective Sensors



Standard Technical Data	
Function principle	Retroreflective sensor with polarization filter
Detection range	1500 mm
Light type	Red laser diode
Voltage type	DC
Operating voltage (min)	12 V
Operating voltage (max)	24 V
Housing length L	4.1 mm
Housing width W	12 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Output type	Connection type
OBR1500-R2F-E0-L	NPN	Fixed cable
OBR1500-R2F-E2-0,2M-V31-L	PNP	Fixed cable with M8 plug
OBR1500-R2F-E2-L	PNP	Fixed cable



Accessories	
REF-H40	Rectangular reflector, 47.5 mm x 23.5 mm, mounting holes, retaining tab
REF-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes
REF-MH23	Rectangular reflector with microstructure, 23 mm x 13.8 mm, diagonal mounting hole
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R2F Series

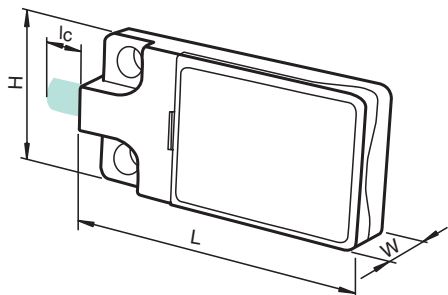
Diffuse Mode Sensors



Standard Technical Data	
Function principle	Triangulation sensor with background suppression
Voltage type	DC
Housing length L	4.1 mm
Housing width W	12 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBT15-R2F-E0	15	Red LED	NPN	10	30	Fixed cable
OBT15-R2F-E0-L	15	Red laser diode	NPN	12	24	Fixed cable
OBT15-R2F-E2	15	Red LED	PNP	10	30	Fixed cable
OBT15-R2F-E2-0,2M-V31	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R2F-E2-0,2M-V31-L	15	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT15-R2F-E2-L	15	Red laser diode	PNP	12	24	Fixed cable
OBT30-R2F-E0	30	Red LED	NPN	10	30	Fixed cable
OBT30-R2F-E0-L	30	Red laser diode	NPN	12	24	Fixed cable
OBT30-R2F-E2	30	Red LED	PNP	10	30	Fixed cable
OBT30-R2F-E2-0,2M-V31	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R2F-E2-0,2M-V31-L	30	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT30-R2F-E2-L	30	Red laser diode	PNP	12	24	Fixed cable



Accessories	
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R3 Series Thru-Beam Sensors

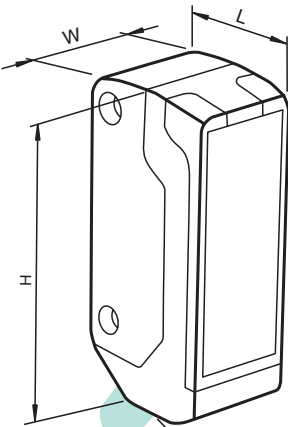


Standard Technical Data

Function principle	Thru-beam sensor
Voltage type	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBE1000-R3-SE0-L	1000	Red laser diode	NPN	12	24	Fixed cable
OBE1000-R3-SE2-0,2M-V31-L	1000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE1000-R3-SE2-L	1000	Red laser diode	PNP	12	24	Fixed cable
OBE2000-R3-E2-0,2M-V3	2000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE2000-R3-E3-0,2M-V3	2000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE2000-R3-SE0	2000	Red LED	NPN	10	30	Fixed cable
OBE2000-R3-SE2	2000	Red LED	PNP	10	30	Fixed cable
OBE2000-R3-SE2-0,2M-V3	2000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE2000-R3-SE2-0,2M-V31	2000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE10M-R3-SE0-L	10000	Red laser diode	NPN	12	24	Fixed cable
OBE10M-R3-SE2-0,2M-V31-L	10000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE10M-R3-SE2-L	10000	Red laser diode	PNP	12	24	Fixed cable



Accessories

MH-R3-01	Mounting aid for sensors from the R3 series, mounting bracket
MH-R3-02	Mounting aid for sensors from the R3 series, mounting bracket
MH-R3-04	Mounting aid for sensors from the R3 series, mounting bracket
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R3 Series

Retroreflective Sensors

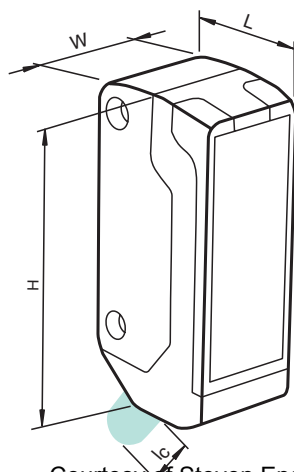


Standard Technical Data

Function principle	Retroreflective sensor with polarization filter
Voltage type	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBR1000-R3-E0	1000	Red LED	NPN	10	30	Fixed cable
OBR1000-R3-E2	1000	Red LED	PNP	10	30	Fixed cable
OBR1000-R3-E2-0,2M-V3	1000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBR1000-R3-E2-0,2M-V31	1000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBR1000-R3-E3	1000	Red LED	PNP	10	30	Fixed cable
OBR1000-R3-E3-0,2M-V31	1000	Red LED	PNP	10	30	Fixed cable with M8 plug
OBR2000-R3-E0-L	2000	Red laser diode	NPN	12	24	Fixed cable
OBR2000-R3-E2-0,2M-V31-L	2000	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBR2000-R3-E2-L	2000	Red laser diode	PNP	12	24	Fixed cable



Accessories

MH-R3-01	Mounting aid for sensors from the R3 series, mounting bracket
MH-R3-02	Mounting aid for sensors from the R3 series, mounting bracket
MH-R3-03	Mounting aid for sensors from the R3 series, mounting bracket
MH-R3-04	Mounting aid for sensors from the R3 series, mounting bracket
REF-H40	Rectangular reflector, 47.5 mm x 23.5 mm, mounting holes, retaining tab
REF-MH23	Rectangular reflector with microstructure, 23 mm x 13.8 mm, diagonal mounting hole
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R3 Series

Diffuse Mode Sensors



Standard Technical Data

Voltage type	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBT15-R3-E0	With background suppression	15	Red LED	NPN	10	30	Fixed cable
OBT15-R3-E0-1T	With background evaluation	15	Red LED	NPN	10	30	Fixed cable
OBT15-R3-E0-L	With background suppression	15	Red laser diode	NPN	12	24	Fixed cable
OBT15-R3-E2	With background suppression	15	Red LED	PNP	10	30	Fixed cable
OBT15-R3-E2-0,2M-V3	With background suppression	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R3-E2-0,2M-V31	With background suppression	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R3-E2-0,2M-V31-L	With background suppression	15	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT15-R3-E2-1T	With background evaluation	15	Red LED	PNP	10	30	Fixed cable
OBT15-R3-E2-L	With background suppression	15	Red laser diode	PNP	12	24	Fixed cable
OBT30-R3-E0	With background suppression	30	Red LED	NPN	10	30	Fixed cable
OBT30-R3-E0-1T	With background evaluation	30	Red LED	NPN	10	30	Fixed cable
OBT30-R3-E0-L	With background suppression	30	Red laser diode	NPN	12	24	Fixed cable
OBT30-R3-E2	With background suppression	30	Red LED	PNP	10	30	Fixed cable
OBT30-R3-E2-0,2M-V3	With background suppression	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R3-E2-0,2M-V31	With background suppression	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R3-E2-0,2M-V31-L	With background suppression	30	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT30-R3-E2-1T	With background evaluation	30	Red LED	PNP	10	30	Fixed cable
OBT30-R3-E2-2,5M-V3-L	With background suppression	30	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT30-R3-E2-5M	With background suppression	30	Red LED	PNP	10	30	Fixed cable
OBT30-R3-E2-L	With background suppression	30	Red laser diode	PNP	12	24	Fixed cable
OBT50-R3-E0	With background suppression	50	Red LED	NPN	10	30	Fixed cable
OBT50-R3-E0-1T	With background evaluation	50	Red LED	NPN	10	30	Fixed cable
OBT50-R3-E0-L	With background suppression	50	Red laser diode	NPN	12	24	Fixed cable
OBT50-R3-E2	With background suppression	50	Red LED	PNP	10	30	Fixed cable
OBT50-R3-E2-0,2M-V3	With background suppression	50	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT50-R3-E2-0,2M-V31	With background suppression	50	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT50-R3-E2-0,2M-V31-L	With background suppression	50	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT50-R3-E2-1T	With background evaluation	50	Red LED	PNP	10	30	Fixed cable
OBT50-R3-E2-3M	With background suppression	50	Red LED	PNP	10	30	Fixed cable
OBT50-R3-E2-5M	With background suppression	50	Red LED	PNP	10	30	Fixed cable
OBT50-R3-E2-L	With background suppression	50	Red laser diode	PNP	12	24	Fixed cable
OBT80-R3-E0	With background suppression	80	Red LED	NPN	10	30	Fixed cable
OBT80-R3-E0-L	With background suppression	80	Red laser diode	NPN	12	24	Fixed cable
OBT80-R3-E2	With background suppression	80	Red LED	PNP	10	30	Fixed cable
OBT80-R3-E2-0,2M-V3	With background suppression	80	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT80-R3-E2-0,2M-V31	With background suppression	80	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT80-R3-E2-0,2M-V31-L	With background suppression	80	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT80-R3-E2-L	With background suppression	80	Red laser diode	PNP	12	24	Fixed cable
OBT80-R3-E3-0,2M-V31	With background suppression	80	Red LED	PNP	10	30	Fixed cable with M8 plug

R3F Series

Thru-Beam Sensors

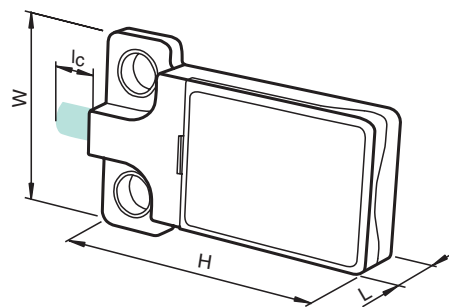


Standard Technical Data	
Function principle	Thru-beam sensor
Voltage type	DC
Housing length L	4.1 mm
Housing width W	16 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBE500-R3F-SE0	500	Red LED	NPN	10	30	Fixed cable
OBE500-R3F-SE0-L	500	Red laser diode	NPN	12	24	Fixed cable
OBE500-R3F-SE2	500	Red LED	PNP	10	30	Fixed cable
OBE500-R3F-SE2-0,2M-V31	500	Red LED	PNP	10	30	Fixed cable with M8 plug
OBE500-R3F-SE2-0,2M-V31-L	500	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE500-R3F-SE2-L	500	Red laser diode	PNP	12	24	Fixed cable
OBE1500-R3F-SE0-L	1500	Red laser diode	NPN	12	24	Fixed cable
OBE1500-R3F-SE2-0,2M-V31-L	1500	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBE1500-R3F-SE2-L	1500	Red laser diode	PNP	12	24	Fixed cable

Accessories	
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R3F Series

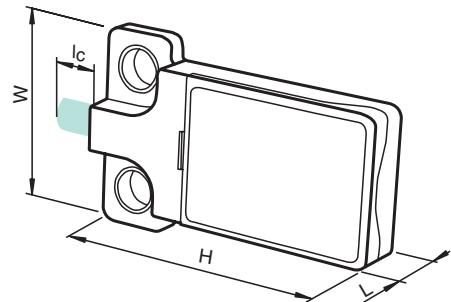
Retroreflective Sensors



Standard Technical Data	
Function principle	Retroreflective sensor with polarization filter
Detection range	1500 mm
Light type	Red laser diode
Voltage type	DC
Operating voltage (min)	12 V
Operating voltage (max)	24 V
Housing length L	4.1 mm
Housing width W	16 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Output type	Connection type
OBR1500-R3F-E0-L	NPN	Fixed cable
OBR1500-R3F-E1-0,2M-V31-L	NPN	Fixed cable with M8 plug
OBR1500-R3F-E2-0,2M-V31-L	PNP	Fixed cable with M8 plug
OBR1500-R3F-E2-L	PNP	Fixed cable



Accessories	
REF-H23	Reflector with mounting holes
REF-H40	Rectangular reflector, 47.5 mm x 23.5 mm, mounting holes
REF-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes
REF-MH23	Rectangular reflector with microstructure, 23 mm x 13.8 mm, diagonal mounting hole
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R3F Series

Diffuse Mode Sensors



Standard Technical Data

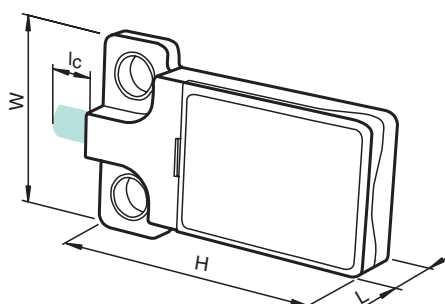
Function principle	Triangulation sensor with background suppression
Voltage type	DC
Housing length L	4.1 mm
Housing width W	16 mm
Housing height H	25.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	UB (max)	Connection type
OBT15-R3F-E0	15	Red LED	NPN	10	30	Fixed cable
OBT15-R3F-E0-L	15	Red laser diode	NPN	12	24	Fixed cable
OBT15-R3F-E2	15	Red LED	PNP	10	30	Fixed cable
OBT15-R3F-E2-0,2M-V31	15	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT15-R3F-E2-0,2M-V31-L	15	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT15-R3F-E2-L	15	Red laser diode	PNP	12	24	Fixed cable
OBT30-R3F-E0	30	Red LED	NPN	10	30	Fixed cable
OBT30-R3F-E0-L	30	Red laser diode	NPN	12	24	Fixed cable
OBT30-R3F-E2	30	Red LED	PNP	10	30	Fixed cable
OBT30-R3F-E2-0,2M-V31	30	Red LED	PNP	10	30	Fixed cable with M8 plug
OBT30-R3F-E2-0,2M-V31-L	30	Red laser diode	PNP	12	24	Fixed cable with M8 plug
OBT30-R3F-E2-L	30	Red laser diode	PNP	12	24	Fixed cable

Accessories

V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R100 Series Thru-Beam Sensors

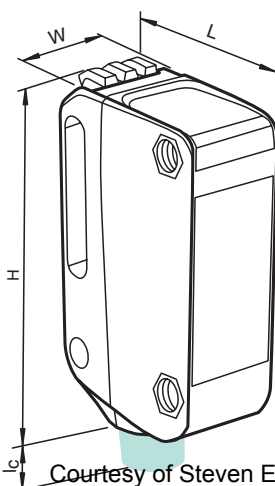


Standard Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	21.5 mm
Housing width W	11 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type	Height H
OBE12M-R100-S2EP-IO	12000	Red LED	2 x push-pull	Fixed cable	37.1
OBE12M-R100-S2EP-IO-0,3M-V1	12000	Red LED	2 x push-pull	Fixed cable with M12 plug	37.1
OBE12M-R100-S2EP-IO-0,3M-V31	12000	Red LED	2 x push-pull	Fixed cable with M8 plug	37.1
OBE12M-R100-S2EP-IO-V31	12000	Red LED	2 x push-pull	M8 connector plug	44.5
OBE12M-R100-SEP-IO-0,3M-V3	12000	Red LED	1 x push-pull	Fixed cable with M8 plug	37.1
OBE12M-R100-SEP-IO-V3	12000	Red LED	1 x push-pull	M8 connector plug	37.1
OBE20M-R100-S2EP-IO-0,3M-V1-L	20000	Red laser diode	2 x push-pull	Fixed cable with M12 plug	37.1
OBE20M-R100-S2EP-IO-0,3M-V31-L	20000	Red laser diode	2 x push-pull	Fixed cable with M8 plug	37.1
OBE20M-R100-S2EP-IO-IR	20000	Infrared LED	2 x push-pull	Fixed cable	37.1
OBE20M-R100-S2EP-IO-L	20000	Red laser diode	2 x push-pull	Fixed cable	37.1
OBE20M-R100-S2EP-IO-V31-IR	20000	Infrared LED	2 x push-pull	M8 connector plug	44.5
OBE20M-R100-S2EP-IO-V31-L	20000	Red laser diode	2 x push-pull	M8 connector plug	44.5
OBE20M-R100-SEP-IO-0,3M-V3-L	20000	Red laser diode	1 x push-pull	Fixed cable with M8 plug	37.1
OBE20M-R100-SEP-IO-V3-L	20000	Red laser diode	1 x push-pull	M8 connector plug	37.1



Accessories

OMH-ML100-03	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm
OMH-ML100-031	Mounting aid for circular profile $\varnothing$ 10 mm ... 14 mm or flat profile
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm
OMH-R10X-01	Mounting bracket
OMH-R10X-02	Mounting bracket
OMH-R10X-10	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R100 Series

Retroreflective Sensors



Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	21.5 mm
Housing width W	11 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OBG5000-R100-2EP-IO	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable	37.1
OBG5000-R100-2EP-IO-0,3M-V1	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	37.1
OBG5000-R100-2EP-IO-0,3M-V31	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	37.1
OBG5000-R100-2EP-IO-V31	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	44.5
OBG5000-R100-2EP1-IO	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable	37.1
OBG5000-R100-2EP1-IO-0,3M-V1	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	37.1
OBG5000-R100-2EP1-IO-V31	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	44.5
OBG5000-R100-E5-IO-V3	For clear object detection	3500	Red LED	Potentiometer, push-button	PNP	M8 connector plug	44.5
OBG5000-R100-EP-IO-0,3M-V3	For clear object detection	3500	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	37.1
OBG5000-R100-EP-IO-V3	For clear object detection	3500	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug	44.5
OBR7500-R100-EP-IO-V3	With polarization filter	7500	Red LED	Potentiometer	1 x push-pull	M8 connector plug	44.5
OBR7000-R100-2EP-IO-1R-IR	Without polarization filter	7000	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	37.1
OBR7000-R100-2EP-IO-V31-1R-IR	Without polarization filter	7000	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR7000-R100-2EP1-IO-V31-1R-IR	Without polarization filter	7000	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR7500-R100-2EP-IO	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable	37.1
OBR7500-R100-2EP-IO-0,3M-V1	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1
OBR7500-R100-2EP-IO-0,3M-V31	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1
OBR7500-R100-2EP-IO-V31	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR7500-R100-2EP1-IO	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable	37.1
OBR7500-R100-2EP1-IO-0,3M-V1	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1
OBR7500-R100-2EP1-IO-0,3M-V31	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1
OBR7500-R100-2EP1-IO-V31	With polarization filter	7500	Red LED	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR7500-R100-E2-IO-V31	With polarization filter	7500	Red LED	Potentiometer	PNP	M8 connector plug	44.5
OBR7500-R100-EP-IO-0,3M-V3	With polarization filter	7500	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1
OBR10M-R100-2EP-IO-1R-IR	Without polarization filter	10000	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	37.1
OBR10M-R100-2EP-IO-V31-1R-IR	Without polarization filter	10000	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR12M-R100-2EP-IO-0,3M-V1-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1
OBR12M-R100-2EP-IO-0,3M-V31-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1
OBR12M-R100-2EP-IO-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	37.1
OBR12M-R100-2EP-IO-V31-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	44.5
OBR12M-R100-EP-IO-0,3M-V3-L	With polarization filter	12000	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1
OBR12M-R100-EP-IO-V3-L	With polarization filter	12000	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	44.5

R100 Series

Diffuse Mode Sensors



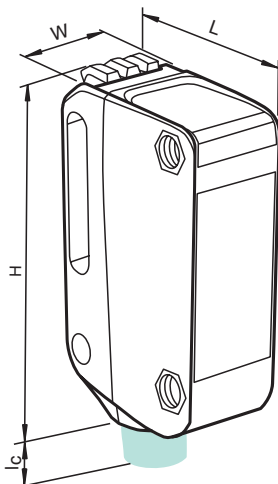
Standard Technical Data

Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	21.5 mm
Housing width W	11 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Interface	Operating elements	Output type	Connection type	Height H	EAC
OBT100-R100-2EP-IO-0,3M-V1-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT100-R100-2EP-IO-0,3M-V31-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT100-R100-2EP-IO-1T-L	With background evaluation	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT100-R100-2EP-IO-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT100-R100-2EP-IO-V31-1T-L	With background evaluation	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT100-R100-2EP-IO-V31-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT100-R100-EP-IO-0,3M-V3-1T-L	With background evaluation	100	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT100-R100-EP-IO-0,3M-V3-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT100-R100-EP-IO-V3-1T-L	With background evaluation	100	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBT100-R100-EP-IO-V3-L	With background suppression	100	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBT150-R100-2EP-IO	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT150-R100-2EP-IO-0,3M-V1	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT150-R100-2EP1-IO	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT150-R100-2EP1-IO-0,3M-V1	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT150-R100-2EP1-IO-0,3M-V1-IR	With background suppression	150	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	44.5	
OBT150-R100-2EP1-IO-0,3M-V31	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT150-R100-2EP1-IO-IR	With background suppression	150	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT150-R100-2EP1-IO-V31	With background suppression	150	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT150-R100-2EP1-IO-V31-IR	With background suppression	150	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OQT150-R100-2EP-IO	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable	37.1	
OQT150-R100-2EP-IO-0,3M-V1	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	37.1	
OQT150-R100-2EP-IO-0,3M-V1-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	37.1	
OQT150-R100-2EP-IO-0,3M-V31	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	37.1	
OQT150-R100-2EP-IO-0,3M-V31-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	37.1	
OQT150-R100-2EP-IO-IR	With multiple switch points	150	Infrared LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable	37.1	
OQT150-R100-2EP-IO-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable	37.1	
OQT150-R100-2EP-IO-V31	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	M8 connector plug	44.5	
OQT150-R100-2EP-IO-V31-IR	With multiple switch points	150	Infrared LED	IO-Link	Potentiometer, push-button	2 x push-pull	M8 connector plug	44.5	
OQT150-R100-2EP-IO-V31-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	2 x push-pull	M8 connector plug	44.5	
OQT150-R100-EP-IO-0,3M-V3	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	37.1	
OQT150-R100-EP-IO-0,3M-V3-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	37.1	

Model number	Function principle	Detection range [mm]	Light type	Interface	Operating elements	Output type	Connection type	Height H	EAC
OQT150-R100-EP-IO-V3	With multiple switch points	150	Red LED	IO-Link	Potentiometer, push-button	1 x push-pull	M8 connector plug	44.5	
OQT150-R100-EP-IO-V3-L	With multiple switch points	150	Red laser diode	IO-Link	Potentiometer, push-button	1 x push-pull	M8 connector plug	44.5	
OBT300-R100-2EP-IO-0,3M-V1-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT300-R100-2EP-IO-0,3M-V31-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT300-R100-2EP-IO-1T-L	With background evaluation	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT300-R100-2EP-IO-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT300-R100-2EP-IO-V31-1T-L	With background evaluation	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT300-R100-2EP-IO-V31-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT300-R100-E5-IO-0,3M-V3-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	PNP	Fixed cable with M8 plug	37.1	
OBT300-R100-E5-IO-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	PNP	Fixed cable	37.1	
OBT300-R100-E5-V31-L	With background suppression	300	Red laser diode		Potentiometer	PNP	M8 connector plug	44.5	
OBT300-R100-EP-IO-0,3M-V3-1T-L	With background evaluation	300	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT300-R100-EP-IO-0,3M-V3-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT300-R100-EP-IO-V3-1T-L	With background evaluation	300	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBT300-R100-EP-IO-V3-L	With background suppression	300	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBT350-R100-2EP-IO	With background suppression	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT350-R100-2EP-IO-0,3M-V1	With background suppression	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT350-R100-2EP-IO-0,3M-V1-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT350-R100-2EP-IO-0,3M-V1-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBT350-R100-2EP-IO-0,3M-V31	With background suppression	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT350-R100-2EP-IO-0,3M-V31-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT350-R100-2EP-IO-0,3M-V31-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBT350-R100-2EP-IO-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT350-R100-2EP-IO-1T-IR	With background evaluation	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT350-R100-2EP-IO-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT350-R100-2EP-IO-V31	With background suppression	350	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT350-R100-2EP-IO-V31-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT350-R100-2EP-IO-V31-1T-IR	With background evaluation	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT350-R100-2EP-IO-V31-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT350-R100-2EP1-IO-0,3M-V1-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	44.5	
OBT350-R100-2EP1-IO-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBT350-R100-2EP1-IO-V31-IR	With background suppression	350	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBT350-R100-EP-IO-0,3M-V3	With background suppression	350	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT350-R100-EP-IO-0,3M-V3-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBT350-R100-EP-IO-V3	With background suppression	350	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBT350-R100-EP-IO-V3-1T	With background evaluation	350	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5	
OBD1000-R100-2EP-IO	Energetic	1000	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBD1000-R100-2EP-IO-0,3M-V1	Energetic	1000	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1	
OBD1000-R100-2EP-IO-0,3M-V31	Energetic	1000	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1	
OBD1000-R100-2EP-IO-V31	Energetic	1000	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	
OBD1000-R100-EP-IO-0,3M-V3	Energetic	1000	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1	
OBD1000-R100-EP-IO-V3	Energetic	1000	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	37.1	
OBD1100-R100-2EP-IO-IR	Energetic	1100	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1	
OBD1100-R100-2EP-IO-V31-IR	Energetic	1100	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5	



Accessories	
IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-ML100-03	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-ML100-031	Mounting aid for circular profile $\varnothing$ 10 mm ... 14 mm or flat profile 1 mm ... 5 mm
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R10X-01	Mounting bracket
OMH-R10X-02	Mounting bracket
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

R101 Series Thru-Beam Sensors

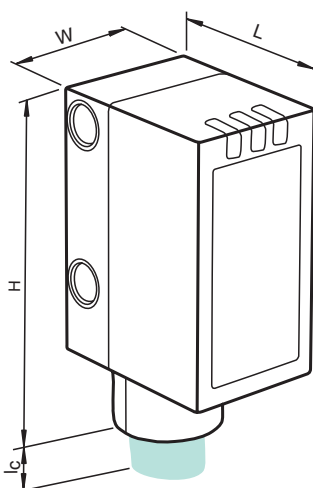


Standard Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type	Height H
OBE12M-R101-S2EP-IO	12000	Red LED	2 x push-pull	Fixed cable	33.8
OBE12M-R101-S2EP-IO-0,3M-V1	12000	Red LED	2 x push-pull	Fixed cable with M12 plug	33.8
OBE12M-R101-S2EP-IO-0,3M-V31	12000	Red LED	2 x push-pull	Fixed cable with M8 plug	33.8
OBE12M-R101-S2EP-IO-V31	12000	Red LED	2 x push-pull	M8 connector plug	41.4
OBE12M-R101-SEP-IO-0,3M-V3	12000	Red LED	1 x push-pull	Fixed cable with M8 plug	33.8
OBE12M-R101-SEP-IO-V3	12000	Red LED	1 x push-pull	M8 connector plug	33.8
OBE20M-R101-S2EP-IO-0,3M-V1-L	20000	Red laser diode	2 x push-pull	Fixed cable with M12 plug	33.8
OBE20M-R101-S2EP-IO-0,3M-V31-L	20000	Red laser diode	2 x push-pull	Fixed cable with M8 plug	33.8
OBE20M-R101-S2EP-IO-IR	20000	Infrared LED	2 x push-pull	Fixed cable	33.8
OBE20M-R101-S2EP-IO-L	20000	Red laser diode	2 x push-pull	Fixed cable	33.8
OBE20M-R101-S2EP-IO-V31-IR	20000	Infrared LED	2 x push-pull	M8 connector plug	41.4
OBE20M-R101-S2EP-IO-V31-L	20000	Red laser diode	2 x push-pull	M8 connector plug	41.4
OBE20M-R101-SEP-IO-0,3M-V3-L	20000	Red laser diode	1 x push-pull	Fixed cable with M8 plug	33.8
OBE20M-R101-SEP-IO-V3-L	20000	Red laser diode	1 x push-pull	M8 connector plug	33.8



Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R101 Series

Retroreflective Sensors

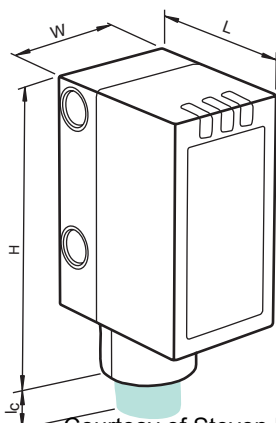


Standard Technical Data

Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Interface	Operating elements	Output type	Connection type	Height H
OBG5000-R101-2EP-IO	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable	33.8
OBG5000-R101-2EP-IO-0,3M-V1	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	33.8
OBG5000-R101-2EP-IO-0,3M-V31	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	33.8
OBG5000-R101-2EP-IO-V31	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	M8 connector plug	41.4
OBG5000-R101-2EP1-IO	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	Fixed cable	33.8
OBG5000-R101-2EP1-IO-V31	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	2 x push-pull	M8 connector plug	41.4
OBG5000-R101-2P1-IO	With polarization filter	5000	Red LED	IO-Link		2 x push-pull	Fixed cable	31.9
OBG5000-R101-2P1-IO-V31	With polarization filter	5000	Red LED	IO-Link		2 x push-pull	M8 connector plug	39.5
OBG5000-R101-EP-IO-0,3M-V3	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	33.8
OBG5000-R101-EP-IO-V3	For clear object detection	3500	Red LED	IO-Link	Potentiometer, push-button	1 x push-pull	M8 connector plug	41.4
OBR7000-R101-2EP-IO-1R-IR	Without polarization filter	7000	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8
OBR7000-R101-2EP-IO-V31-1R-IR	Without polarization filter	7000	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBR7500-R101-2EP-IO	With polarization filter	7500	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8
OBR7500-R101-2EP-IO-0,3M-V1	With polarization filter	7500	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBR7500-R101-2EP-IO-0,3M-V31	With polarization filter	7500	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBR7500-R101-2EP-IO-V31	With polarization filter	7500	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBR7500-R101-E5-0,3M-V1	With polarization filter	7500	Red LED		Potentiometer	PNP	Fixed cable with M12 plug	33.8
OBR7500-R101-EP-IO-0,3M-V3	With polarization filter	7500	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBR7500-R101-EP-IO-V3	With polarization filter	7500	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBR7500-R101-P1-Y0447	With polarization filter	7500	Red LED			1 x push-pull	M8 connector plug	39.5
OBR10M-R101-2EP-IO-1R-IR	Without polarization filter	10000	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8
OBR10M-R101-2EP-IO-V31-1R-IR	Without polarization filter	10000	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBR12M-R101-2EP-IO-0,3M-V1-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBR12M-R101-2EP-IO-0,3M-V31-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBR12M-R101-2EP-IO-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8
OBR12M-R101-2EP-IO-V31-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBR12M-R101-EP-IO-0,3M-V3-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBR12M-R101-EP-IO-V3-L	With polarization filter	12000	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	41.4



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Accessories

OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
REF-H32G-2	Reflector
REF-H33	Reflector with screw fixing
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm
REF-MVR10	Rectangular reflector with microstructure, 60 mm x 19 mm
REF-ORR50G-2	Reflector

R101 Series

Diffuse Mode Sensors



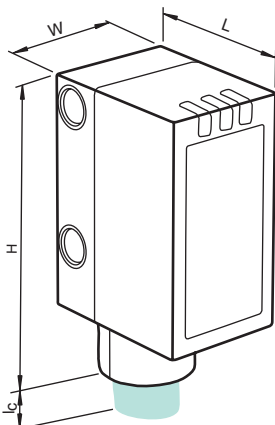
Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
UL	

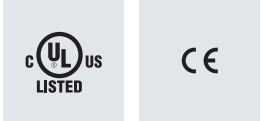
For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OBT20-R101-2P1-IO	With background suppression	20	Red LED		2 x push-pull	Fixed cable	31.9
OBT20-R101-2P1-IO-0,3M-V1	With background suppression	20	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9
OBT20-R101-2P1-IO-0,3M-V31	With background suppression	20	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9
OBT20-R101-2P1-IO-V31	With background suppression	20	Red LED		2 x push-pull	M8 connector plug	31.9
OBT20-R101-2P1-IO-V31-IR	With background suppression	20	Infrared LED		2 x push-pull	M8 connector plug	31.9
OBT40-R101-2P1-IO	With background suppression	40	Red LED		2 x push-pull	Fixed cable	31.9
OBT40-R101-2P1-IO-0,3M-V1	With background suppression	40	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9
OBT40-R101-2P1-IO-V31	With background suppression	40	Red LED		2 x push-pull	M8 connector plug	31.9
OBT40-R101-2P1-IO-V31-IR	With background suppression	40	Infrared LED		2 x push-pull	M8 connector plug	31.9
OBT60-R101-2P1-IO	With background suppression	60	Red LED		2 x push-pull	Fixed cable	31.9
OBT60-R101-2P1-IO-0,3M-V1	With background suppression	60	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9
OBT60-R101-2P1-IO-0,3M-V31	With background suppression	60	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9
OBT60-R101-2P1-IO-IR	With background suppression	60	Infrared LED		2 x push-pull	Fixed cable	31.9
OBT60-R101-2P1-IO-V31	With background suppression	60	Red LED		2 x push-pull	M8 connector plug	31.9
OBT60-R101-2P1-IO-V31-IR	With background suppression	60	Infrared LED		2 x push-pull	M8 connector plug	31.9
OBT80-R101-2P1-IO	With background suppression	80	Red LED		2 x push-pull	Fixed cable	31.9
OBT80-R101-2P1-IO-0,3M-V1	With background suppression	80	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9
OBT80-R101-2P1-IO-0,3M-V31	With background suppression	80	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9
OBT80-R101-2P1-IO-V31	With background suppression	80	Red LED		2 x push-pull	M8 connector plug	31.9
OBT80-R101-2P1-IO-V31-IR	With background suppression	80	Infrared LED		2 x push-pull	M8 connector plug	31.9
OBT100-R101-2EP-IO-0,3M-V1-L	With background suppression	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT100-R101-2EP-IO-0,3M-V31-L	With background suppression	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT100-R101-2EP-IO-1T-L	With background evaluation	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT100-R101-2EP-IO-1T-L-Y0244	With background evaluation	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT100-R101-2EP-IO-1T-L-Y0245	With background evaluation	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT100-R101-2EP-IO-L	With background suppression	100	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT100-R101-2EP-IO-V31-1T-L	With background evaluation	100	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT100-R101-2EP-IO-V31-L	With background suppression	100	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT100-R101-EP-IO-0,3M-V3-1T-L	With background evaluation	100	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT100-R101-EP-IO-0,3M-V3-L	With background suppression	100	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT100-R101-EP-IO-V3-1T-L	With background evaluation	100	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBT100-R101-EP-IO-V3-L	With background suppression	100	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBT150-R101-2EP1-IO	With background suppression	150	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT150-R101-2EP1-IO-0,3M-V1	With background suppression	150	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT150-R101-2EP1-IO-V31	With background suppression	150	Red LED	Potentiometer	2 x push-pull	M8 connector plug	33.8
OBT150-R101-2EP1-IO-V31-IR	With background suppression	150	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	33.8
OQT150-R101-2EP-IO	With multiple switch points	150	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable	33.8
OQT150-R101-2EP-IO-0,3M-V1	With multiple switch points	150	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	33.8
OQT150-R101-2EP-IO-0,3M-V1-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	33.8
OQT150-R101-2EP-IO-0,3M-V31	With multiple switch points	150	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	33.8

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OQT150-R101-2EP-IO-0,3M-V31-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	33.8
OQT150-R101-2EP-IO-IR	With multiple switch points	150	Infrared LED	Potentiometer, push-button	2 x push-pull	Fixed cable	33.8
OQT150-R101-2EP-IO-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable	33.8
OQT150-R101-2EP-IO-V31	With multiple switch points	150	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	41.4
OQT150-R101-2EP-IO-V31-IR	With multiple switch points	150	Infrared LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	41.4
OQT150-R101-2EP-IO-V31-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	2 x push-pull	M8 connector plug	41.4
OQT150-R101-EP-IO-0,3M-V3	With multiple switch points	150	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	33.8
OQT150-R101-EP-IO-0,3M-V3-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	33.8
OQT150-R101-EP-IO-V3	With multiple switch points	150	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug	41.4
OQT150-R101-EP-IO-V3-L	With multiple switch points	150	Red laser diode	Potentiometer, push-button	1 x push-pull	M8 connector plug	41.4
OBT300-R101-2EP-IO-0,3M-V1-L	With background suppression	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT300-R101-2EP-IO-0,3M-V31-L	With background suppression	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT300-R101-2EP-IO-1T-L	With background evaluation	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT300-R101-IO-1T-L-Y0112	With background evaluation	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT300-R101-IO-1T-L-Y0113	With background evaluation	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT300-R101-2EP-IO-L	With background suppression	300	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT300-R101-2EP-IO-0,3M-V31-1T-L	With background evaluation	300	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT300-R101-2EP-IO-V31-L	With background suppression	300	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT300-R101-EP-IO-0,3M-V3-1T-L	With background evaluation	300	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT300-R101-EP-IO-0,3M-V3-L	With background suppression	300	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT300-R101-EP-IO-V3-1T-L	With background evaluation	300	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBT300-R101-EP-IO-V3-L	With background suppression	300	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBT350-R101-2EP-IO	With background suppression	350	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT350-R101-2EP-IO-0,3M-V1	With background suppression	350	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT350-R101-2EP-IO-0,3M-V1-1T	With background evaluation	350	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBT350-R101-2EP-IO-0,3M-V31	With background suppression	350	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT350-R101-2EP-IO-0,3M-V31-1T	With background evaluation	350	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBT350-R101-2EP-IO-1T	With background evaluation	350	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT350-R101-2EP-IO-1T-IR	With background evaluation	350	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT350-R101-2EP-IO-IR	With background suppression	350	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBT350-R101-2EP-IO-V31	With background suppression	350	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT350-R101-2EP-IO-V31-1T	With background evaluation	350	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT350-R101-2EP-IO-V31-1T-IR	With background evaluation	350	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT350-R101-2EP-IO-V31-IR	With background suppression	350	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBT350-R101-EP-IO-0,3M-V3	With background suppression	350	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT350-R101-EP-IO-0,3M-V3-1T	With background evaluation	350	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBT350-R101-EP-IO-V3	With background suppression	350	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBT350-R101-EP-IO-V3-1T	With background evaluation	350	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBD1000-R101-2EP-IO	Energetic	1000	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBD1000-R101-2EP-IO-0,3M-V1	Energetic	1000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8
OBD1000-R101-2EP-IO-0,3M-V31	Energetic	1000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8
OBD1000-R101-2EP-IO-V31	Energetic	1000	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4
OBD1000-R101-EP-IO-0,3M-V3	Energetic	1000	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8
OBD1000-R101-EP-IO-V3	Energetic	1000	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4
OBD1100-R101-2EP-IO-IR	Energetic	1100	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8
OBD1100-R101-2EP-IO-V31-IR	Energetic	1100	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4



Accessories	
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R102 Series

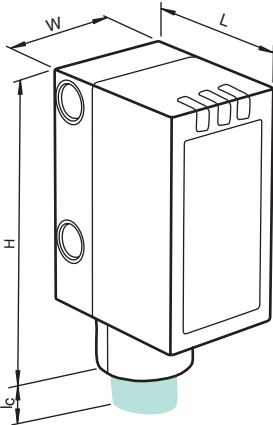
Thru-Beam Sensors



Standard Technical Data	
Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
Housing height H	33.8 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type
OBE12M-R102-S2EP-IO	12000	Red LED	2 x push-pull	Fixed cable
OBE12M-R102-S2EP-IO-V31	12000	Red LED	2 x push-pull	M8 connector plug
OBE12M-R102-SEP-IO-V31	12000	Red LED	1 x push-pull	M8 connector plug
OBE20M-R102-S2EP-IO-V31-L	20000	Red laser diode	2 x push-pull	M8 connector plug



Accessories	
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R102 Series

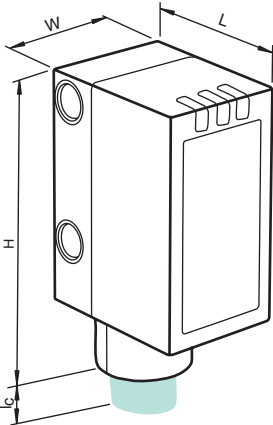
Retroreflective Sensors



Standard Technical Data	
Function principle	Retroreflective sensor for clear object detection
Detection range	3500 mm
Light type	Red LED
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M8 connector plug
Housing length L	18.3 mm
Housing width W	13.9 mm
Housing height H	41.4 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Output type
OBG5000-R102-2EP-IO-V31	2 x push-pull
OBG5000-R102-2EP1-IO-V31	2 x push-pull
OBG5000-R102-EP-IO-V31	1 x push-pull



Accessories	
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
REF-H33	Reflector with screw fixing
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R102 Series

Diffuse Mode Sensors

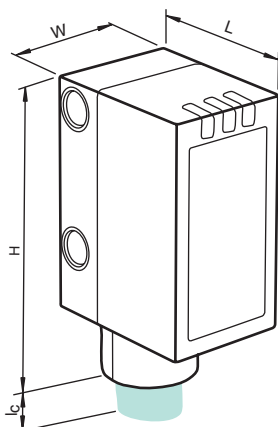


Standard Technical Data

Function principle	Triangulation sensor with background suppression
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
Housing height H	31.9 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Interface	Output type	Connection type
OBT20-R102-2P1-IO	20	Red LED	IO-Link	2 x push-pull	Fixed cable
OBT20-R102-2P1-IO-0,3M-V1	20	Red LED	IO-Link	2 x push-pull	Fixed cable with M12 plug
OBT20-R102-2P1-IO-IR	20	Infrared LED	IO-Link	2 x push-pull	Fixed cable
OBT20-R102-2P1-IO-V31	20	Red LED	IO-Link	2 x push-pull	M8 connector plug
OBT20-R102-2P1-IO-V31-IR	20	Infrared LED	IO-Link	2 x push-pull	M8 connector plug
OBT20-R102-P1-IO-V31	20	Red LED	IO-Link	1 x push-pull	M8 connector plug
OBT40-R102-2P1-IO	40	Red LED	IO-Link	2 x push-pull	Fixed cable
OBT40-R102-2P1-IO-0,3M-V1	40	Red LED	IO-Link	2 x push-pull	Fixed cable with M12 plug
OBT40-R102-2P1-IO-IR	40	Infrared LED	IO-Link	2 x push-pull	Fixed cable
OBT40-R102-2P1-IO-V31	40	Red LED	IO-Link	2 x push-pull	M8 connector plug
OBT40-R102-2P1-IO-V31-IR	40	Infrared LED	IO-Link	2 x push-pull	M8 connector plug
OBT40-R102-A0-V31	40	Red LED		NPN	M8 connector plug
OBT40-R102-P1-IO-V31	40	Red LED	IO-Link	1 x push-pull	M8 connector plug
OBT40-R102-P1-IO-V31-IR	40	Infrared LED	IO-Link	1 x push-pull	M8 connector plug
OBT60-R102-2P1-IO	60	Red LED	IO-Link	2 x push-pull	Fixed cable
OBT60-R102-2P1-IO-0,3M-V1	60	Red LED	IO-Link	2 x push-pull	Fixed cable with M12 plug
OBT60-R102-2P1-IO-V31	60	Red LED	IO-Link	2 x push-pull	M8 connector plug
OBT60-R102-2P1-IO-V31-IR	60	Infrared LED	IO-Link	2 x push-pull	M8 connector plug
OBT60-R102-P1-IO-V31	60	Red LED	IO-Link	1 x push-pull	M8 connector plug
OBT80-R102-2P1-IO	80	Red LED	IO-Link	2 x push-pull	Fixed cable
OBT80-R102-2P1-IO-0,3M-V1	80	Red LED	IO-Link	2 x push-pull	Fixed cable with M12 plug
OBT80-R102-2P1-IO-IR	80	Infrared LED	IO-Link	2 x push-pull	Fixed cable
OBT80-R102-2P1-IO-V31	80	Red LED	IO-Link	2 x push-pull	M8 connector plug
OBT80-R102-2P1-IO-V31-IR	80	Infrared LED	IO-Link	2 x push-pull	M8 connector plug



Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R103 Series Thru-Beam Sensors

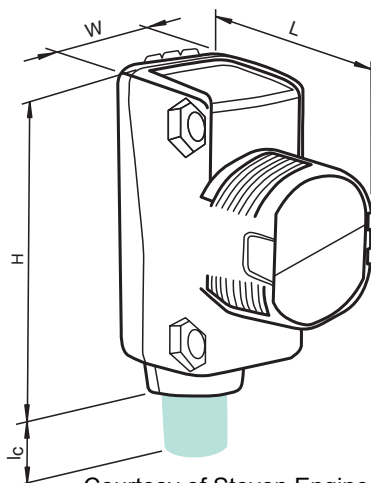


Standard Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	26.7 mm
Housing width W	15 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type	Height H
OBE10M-R103-S2EP-IO	10000	Red LED	2 x push-pull	Fixed cable	36.5
OBE10M-R103-S2EP-IO-0,3M-V1	10000	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5
OBE10M-R103-S2EP-IO-0,3M-V31	10000	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5
OBE10M-R103-S2EP-IO-V31	10000	Red LED	2 x push-pull	M8 connector plug	43.9
OBE10M-R103-SEP-IO-0,3M-V3	10000	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5
OBE10M-R103-SEP-IO-V3	10000	Red LED	1 x push-pull	M8 connector plug	43.9
OBE20M-R103-S2EP-IO-0,3M-V1-L	20000	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5
OBE20M-R103-S2EP-IO-0,3M-V31-L	20000	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5
OBE20M-R103-S2EP-IO-L	20000	Red laser diode	2 x push-pull	Fixed cable	36.5
OBE20M-R103-S2EP-IO-V31-L	20000	Red laser diode	2 x push-pull	M8 connector plug	43.9
OBE20M-R103-SEP-IO-0,3M-V3-L	20000	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5
OBE20M-R103-SEP-IO-V3-L	20000	Red laser diode	1 x push-pull	M8 connector plug	43.9



Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-ML100-03	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-ML100-031	Mounting aid for circular profile $\varnothing$ 10 mm ... 14 mm or flat profile 1 mm ... 5 mm
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R103 Series

Retroreflective Sensors

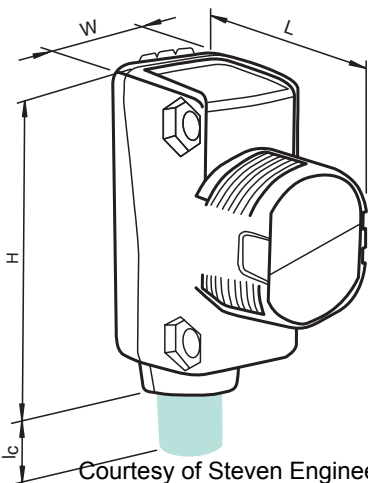


Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	26.7 mm
Housing width W	15 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OBG4000-R103-2EP-IO	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable	36.5
OBG4000-R103-2EP-IO-0,3M-V1	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	36.5
OBG4000-R103-2EP-IO-0,3M-V31	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	36.5
OBG4000-R103-2EP-IO-V31	For clear object detection	3500	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	43.9
OBG4000-R103-EP-IO-0,3M-V3	For clear object detection	3500	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	36.5
OBG4000-R103-EP-IO-V3	For clear object detection	3500	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug	43.9
OBR6000-R103-EP-IO-V3	With polarization filter	6000	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBR6000-R103-2EP-IO	With polarization filter	6000	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5
OBR6000-R103-2EP-IO-0,3M-V1	With polarization filter	6000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBR6000-R103-2EP-IO-0,3M-V31	With polarization filter	6000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBR6000-R103-2EP-IO-V31	With polarization filter	6000	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBR6000-R103-EP-IO-0,3M-V3	With polarization filter	6000	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBR12M-R103-2EP-IO-0,3M-V1-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBR12M-R103-2EP-IO-0,3M-V31-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBR12M-R103-2EP-IO-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5
OBR12M-R103-2EP-IO-V31-L	With polarization filter	12000	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBR12M-R103-EP-IO-0,3M-V3-L	With polarization filter	12000	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBR12M-R103-EP-IO-V3-L	With polarization filter	12000	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9



Accessories

IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-ML100-031	Mounting aid for circular profile $\varnothing$ 10 mm ... 14 mm or flat profile 1 mm ... 5 mm
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
REF-H33	Reflector with screw fixing
REF-MVR10	Rectangular reflector with microstructure, 60 mm x 19 mm, mounting holes
REF-ORR50G-2	Ambient temperature: 0 °C ... 50 °C (32 °F ... 122 °F)
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



R103 Series

Diffuse Mode Sensors



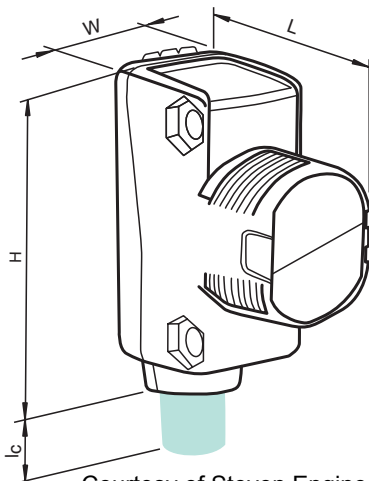
Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	26.7 mm
Housing width W	15 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OBT80-R103-2EP-IO-0,3M-V1-1T-L	With background evaluation	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT80-R103-2EP-IO-0,3M-V1-L	With background suppression	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT80-R103-2EP-IO-0,3M-V31-L	With background suppression	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT80-R103-2EP-IO-1T-L	With background evaluation	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT80-R103-2EP-IO-1T-L-Y0351	With background evaluation	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT80-R103-2EP-IO-L	With background suppression	80	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT80-R103-2EP-IO-V31-1T-L	With background evaluation	80	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBT80-R103-2EP-IO-V31-L	With background suppression	80	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBT80-R103-EP-IO-0,3M-V3-1T-L	With background evaluation	80	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT80-R103-EP-IO-0,3M-V3-L	With background suppression	80	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT80-R103-EP-IO-V3-1T-L	With background evaluation	80	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBT80-R103-EP-IO-V3-L	With background suppression	80	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9
OQT120-R103-2EP-IO	With multiple switch points	120	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable	36.5
OQT120-R103-2EP-IO-0,3M-V1	With multiple switch points	120	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	36.5
OQT120-R103-2EP-IO-0,3M-V1-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug	36.5
OQT120-R103-2EP-IO-0,3M-V31	With multiple switch points	120	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	36.5
OQT120-R103-2EP-IO-0,3M-V31-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug	36.5
OQT120-R103-2EP-IO-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable	36.5
OQT120-R103-2EP-IO-V31	With multiple switch points	120	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug	43.9
OQT120-R103-2EP-IO-V31-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	2 x push-pull	M8 connector plug	43.9
OQT120-R103-EP-IO-0,3M-V3	With multiple switch points	120	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	36.5
OQT120-R103-EP-IO-0,3M-V3-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug	36.5
OQT120-R103-EP-IO-V3	With multiple switch points	120	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug	43.9
OQT120-R103-EP-IO-V3-L	With multiple switch points	120	Red laser diode	Potentiometer, push-button	1 x push-pull	M8 connector plug	43.9
OBT250-R103-2EP-IO-0,3M-V1-L	With background suppression	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT250-R103-2EP-IO-0,3M-V31-L	With background suppression	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT250-R103-2EP-IO-1T-L	With background evaluation	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT250-R103-2EP-IO-1T-L-Y0329	With background evaluation	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT250-R103-2EP-IO-1T-L-Y0330	With background evaluation	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT250-R103-2EP-IO-L	With background suppression	250	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT250-R103-2EP-IO-V31-1T-L	With background evaluation	250	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBT250-R103-2EP-IO-V31-L	With background suppression	250	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	Height H
OBT250-R103-EP-IO-0,3M-V3-1T-L	With background evaluation	250	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT250-R103-EP-IO-0,3M-V3-L	With background suppression	250	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT250-R103-EP-IO-V3-1T-L	With background evaluation	250	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBT250-R103-EP-IO-V3-L	With background suppression	250	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBT300-R103-2EP-IO	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT300-R103-2EP-IO-0,3M-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT300-R103-2EP-IO-0,3M-V1-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT300-R103-2EP-IO-0,3M-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT300-R103-2EP-IO-0,3M-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBT300-R103-2EP-IO-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5
OBT300-R103-2EP-IO-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBT300-R103-2EP-IO-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBT300-R103-2EP1-IO-0,3M-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBT300-R103-EP-IO-0,3M-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT300-R103-EP-IO-0,3M-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBT300-R103-EP-IO-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBT300-R103-EP-IO-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9
OBD800-R103-2EP-IO	Energetic	800	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5
OBD800-R103-2EP-IO-0,3M-V1	Energetic	800	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5
OBD800-R103-2EP-IO-0,3M-V31	Energetic	800	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5
OBD800-R103-2EP-IO-V31	Energetic	800	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9
OBD800-R103-EP-IO-0,3M-V3	Energetic	800	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5
OBD800-R103-EP-IO-V3	Energetic	800	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Accessories	
IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-ML100-03	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-ML100-031	Mounting aid for circular profile $\varnothing$ 10 mm ... 14 mm or flat profile 1 mm ... 5 mm
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R103-01	Mounting bracket
OMH-R10X-01	Mounting bracket
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes, retaining tab
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

R200 Series Thru-Beam Sensors

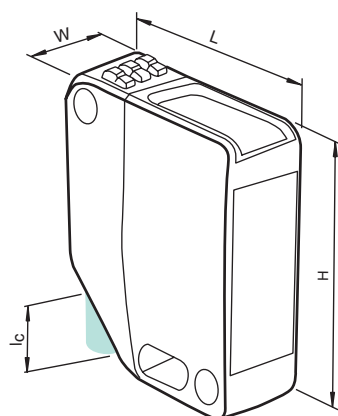


Standard Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	50.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type
OBE25M-R200-S2EP-IO	25000	Red LED	2 x push-pull	Fixed cable
OBE25M-R200-S2EP-IO-0,3M-V1	25000	Red LED	2 x push-pull	Fixed cable with M12 plug
OBE25M-R200-S2EP-IO-0,3M-V31	25000	Red LED	2 x push-pull	Fixed cable with M8 plug
OBE25M-R200-S2EP-IO-V1	25000	Red LED	2 x push-pull	M12 connector plug
OBE25M-R200-S2EP-IO-V31	25000	Red LED	2 x push-pull	M8 connector plug
OBE25M-R200-SEP-IO-0,3M-V3	25000	Red LED	1 x push-pull	Fixed cable with M8 plug
OBE25M-R200-SEP-IO-V3	25000	Red LED	1 x push-pull	M8 connector plug
OBE40M-R200-S2EP-IO-0,3M-V1-L	40000	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OBE40M-R200-S2EP-IO-0,3M-V31-L	40000	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OBE40M-R200-S2EP-IO-L	40000	Red laser diode	2 x push-pull	Fixed cable
OBE40M-R200-S2EP-IO-V1-L	40000	Red laser diode	2 x push-pull	M12 connector plug
OBE40M-R200-S2EP-IO-V31-L	40000	Red laser diode	2 x push-pull	M8 connector plug
OBE40M-R200-SEP-IO-0,3M-V3-L	40000	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OBE40M-R200-SEP-IO-V3-L	40000	Red laser diode	1 x push-pull	M8 connector plug



Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick-mounting aid
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R200 Series

Retroreflective Sensors

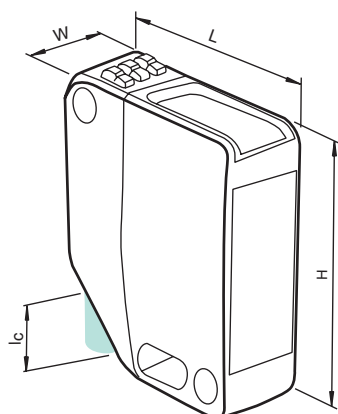


Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	50.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBG8000-R200-EP-IO-V3	For clear object detection	5600	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug
OBG8000-R200-2EP-IO	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable
OBG8000-R200-2EP-IO-0,3M-V1	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R200-2EP-IO-0,3M-V15	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R200-2EP-IO-0,3M-V31	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OBG8000-R200-2EP-IO-V1	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OBG8000-R200-2EP-IO-V15	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OBG8000-R200-2EP-IO-V31	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug
OBG8000-R200-EP-IO-0,3M-V3	For clear object detection	5600	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OBR15M-R200-2EP-IO	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBR15M-R200-2EP-IO-0,3M-V1	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R200-2EP-IO-0,3M-V15	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R200-2EP-IO-0,3M-V31	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR15M-R200-2EP-IO-V1	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R200-2EP-IO-V15	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R200-2EP-IO-V31	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBR15M-R200-EP-IO-0,3M-V3	With polarization filter	15000	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR15M-R200-EP-IO-V3	With polarization filter	15000	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBR25M-R200-2EP-IO-0,3M-V1-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R200-2EP-IO-0,3M-V15-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R200-2EP-IO-0,3M-V31-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR25M-R200-2EP-IO-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBR25M-R200-2EP-IO-V1-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R200-2EP-IO-V15-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R200-2EP-IO-V31-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBR25M-R200-A5-IO-V1-L	With polarization filter	25000	Red laser diode	Potentiometer	PNP	M12 connector plug
OBR25M-R200-EP-IO-0,3M-V3-L	With polarization filter	25000	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR25M-R200-EP-IO-V3-L	With polarization filter	25000	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug



Accessories

IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profile ø 12 mm or flat profile
OMH-R20x-Quick-Mount	Quick-mounting aid
REF-C110-2	Round reflector ø 84 mm, mounting hole in center
REF-H32G-2	Ambient temperature: -20 °C ... 60 °C (-4 °F ... 140 °F)
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm
REF-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes

R200 Series

Diffuse Mode Sensors



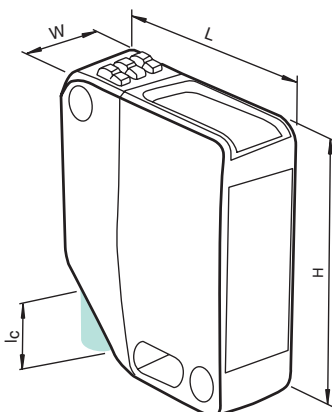
Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	50.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBT300-R200-2EP-IO	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R200-2EP-IO-0,3M-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R200-2EP-IO-0,3M-V1-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R200-2EP-IO-0,3M-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R200-2EP-IO-0,3M-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R200-2EP-IO-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R200-2EP-IO-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R200-2EP-IO-V1-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R200-2EP-IO-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R200-2EP-IO-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R200-EP-IO-0,3M-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R200-EP-IO-0,3M-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R200-EP-IO-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT300-R200-EP-IO-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OQT350-R200-2EP-IO-0,3M-V1-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OQT350-R200-2EP-IO-0,3M-V31-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OQT350-R200-2EP-IO-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable
OQT350-R200-2EP-IO-V1-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	M12 connector plug
OQT350-R200-2EP-IO-V31-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	M8 connector plug
OQT350-R200-EP-IO-0,3M-V3-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OQT350-R200-EP-IO-V3-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	1 x push-pull	M8 connector plug
OQT400-R200-EP-IO-V3	With multiple switch points	400	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug
OQT400-R200-2EP-IO	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable
OQT400-R200-2EP-IO-0,3M-V1	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OQT400-R200-2EP-IO-0,3M-V31	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OQT400-R200-2EP-IO-V1	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OQT400-R200-2EP-IO-V31	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug
OQT400-R200-EP-IO-0,3M-V3	With multiple switch points	400	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-0,3M-V1-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R200-2EP-IO-0,3M-V31-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R200-2EP-IO-1T-L-Y0233	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-1T-L-Y0236	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R200-2EP-IO-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R200-2EP-IO-V1-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R200-2EP-IO-V1-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R200-2EP-IO-V31-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R200-2EP-IO-V31-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R200-EP-IO-0,3M-V3-1T-L	With background evaluation	600	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT600-R200-EP-IO-0,3M-V3-L	With background suppression	600	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBT600-R200-EP-IO-V3-1T-L	With background evaluation	600	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT600-R200-EP-IO-V3-L	With background suppression	600	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R200-2EP-IO	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R200-2EP-IO-0,3M-V1	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R200-2EP-IO-0,3M-V1-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R200-2EP-IO-0,3M-V31	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R200-2EP-IO-0,3M-V31-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R200-2EP-IO-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R200-2EP-IO-V1	With background suppression	650	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R200-2EP-IO-V1-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R200-2EP-IO-V31	With background suppression	650	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R200-2EP-IO-V31-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R200-EP-IO-0,3M-V3	With background suppression	650	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R200-EP-IO-0,3M-V3-1T	With background evaluation	650	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R200-EP-IO-V3	With background suppression	650	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R200-EP-IO-V3-1T	With background evaluation	650	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBD1400-R200-2EP-IO	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBD1400-R200-2EP-IO-0,3M-V1	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBD1400-R200-2EP-IO-0,3M-V31	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBD1400-R200-2EP-IO-V1	Energetic	1400	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBD1400-R200-2EP-IO-V31	Energetic	1400	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBD1400-R200-EP-IO-0,3M-V3	Energetic	1400	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBD1400-R200-EP-IO-V3	Energetic	1400	Red LED	Potentiometer	1 x push-pull	M8 connector plug



Accessories	
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick-mounting aid
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R201 Series Thru-Beam Sensors

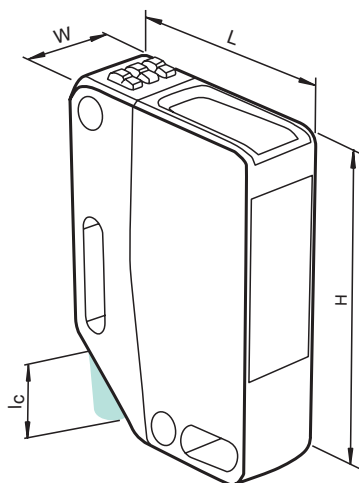


Standard Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	61.7 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type
OBE25M-R201-S2EP-IO	25000	Red LED	2 x push-pull	Fixed cable
OBE25M-R201-S2EP-IO-0,3M-V1	25000	Red LED	2 x push-pull	Fixed cable with M12 plug
OBE25M-R201-S2EP-IO-0,3M-V31	25000	Red LED	2 x push-pull	Fixed cable with M8 plug
OBE25M-R201-S2EP-IO-V1	25000	Red LED	2 x push-pull	M12 connector plug
OBE25M-R201-S2EP-IO-V31	25000	Red LED	2 x push-pull	M8 connector plug
OBE25M-R201-SEP-IO-0,3M-V3	25000	Red LED	1 x push-pull	Fixed cable with M8 plug
OBE25M-R201-SEP-IO-V3	25000	Red LED	1 x push-pull	M8 connector plug
OBE40M-R201-S2EP-IO-0,3M-V1-L	40000	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OBE40M-R201-S2EP-IO-0,3M-V31-L	40000	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OBE40M-R201-S2EP-IO-L	40000	Red laser diode	2 x push-pull	Fixed cable
OBE40M-R201-S2EP-IO-V1-L	40000	Red laser diode	2 x push-pull	M12 connector plug
OBE40M-R201-S2EP-IO-V31-L	40000	Red laser diode	2 x push-pull	M8 connector plug
OBE40M-R201-SEP-IO-0,3M-V3-L	40000	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OBE40M-R201-SEP-IO-V3-L	40000	Red laser diode	1 x push-pull	M8 connector plug



Accessories

OMH-R20x-Quick-Mount	Quick-mounting aid
OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-07	Mounting bracket complete with adjustment component
OMH-RL31-08	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R201 Series

Retroreflective Sensors

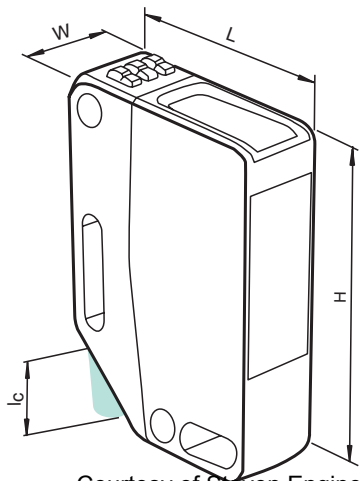


Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	61.7 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBG8000-R201-2EP-IO	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable
OBG8000-R201-2EP-IO-0,3M-V1	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R201-2EP-IO-0,3M-V15	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R201-2EP-IO-0,3M-V31	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OBG8000-R201-2EP-IO-V1	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OBG8000-R201-2EP-IO-V15	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OBG8000-R201-2EP-IO-V31	For clear object detection	5600	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug
OBG8000-R201-EP-IO-0,3M-V3	For clear object detection	5600	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OBG8000-R201-EP-IO-V3	For clear object detection	5600	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug
OBR15M-R201-2EP-IO	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBR15M-R201-2EP-IO-0,3M-V1	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R201-2EP-IO-0,3M-V15	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R201-2EP-IO-0,3M-V31	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR15M-R201-2EP-IO-V1	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R201-2EP-IO-V15	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R201-2EP-IO-V31	With polarization filter	15000	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBR15M-R201-EP-IO-0,3M-V3	With polarization filter	15000	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR15M-R201-EP-IO-V3	With polarization filter	15000	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBR25M-R201-2EP-IO-0,3M-V1-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R201-2EP-IO-0,3M-V15-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R201-2EP-IO-0,3M-V31-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR25M-R201-2EP-IO-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBR25M-R201-2EP-IO-V1-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R201-2EP-IO-V15-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R201-2EP-IO-V31-L	With polarization filter	25000	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBR25M-R201-EP-IO-0,3M-V3-L	With polarization filter	25000	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR25M-R201-EP-IO-V3-L	With polarization filter	25000	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug



Accessories

FE-RR1	Round reflector ø 80.87 mm, mounting hole
IO-Link-Master02-USB	IO-Link master, power supply via USB port
OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-R20x-Quick-Mount	Quick-mounting aid
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile ø 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-07	Mounting bracket complete with adjustment component
OMH-RL31-08	Mounting aid for circular profile ø 12 mm or flat profile 1.5 mm ... 3 mm
REF-C110-2	Round reflector ø 84 mm, mounting hole in center
REF-H32G-2	Reflector

R201 Series

Diffuse Mode Sensors



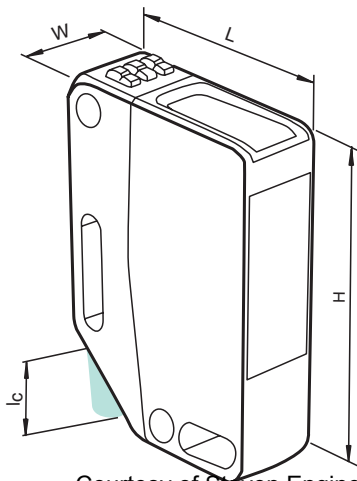
Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	61.7 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBT300-R201-2EP-IO	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R201-2EP-IO-0,3M-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R201-2EP-IO-0,3M-V1-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R201-2EP-IO-0,3M-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R201-2EP-IO-0,3M-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R201-2EP-IO-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R201-2EP-IO-V1	With background suppression	300	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R201-2EP-IO-V1-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R201-2EP-IO-V31	With background suppression	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R201-2EP-IO-V31-1T	With background evaluation	300	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R201-EP-IO-0,3M-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R201-EP-IO-0,3M-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R201-EP-IO-V3	With background suppression	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT300-R201-EP-IO-V3-1T	With background evaluation	300	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OQT350-R201-2EP-IO-0,3M-V1-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OQT350-R201-2EP-IO-0,3M-V31-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OQT350-R201-2EP-IO-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	Fixed cable
OQT350-R201-2EP-IO-V1-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	M12 connector plug
OQT350-R201-2EP-IO-V31-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	2 x push-pull	M8 connector plug
OQT350-R201-EP-IO-0,3M-V3-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OQT350-R201-EP-IO-V3-L	With multiple switch points	350	Red laser diode	Potentiometer, push-button	1 x push-pull	M8 connector plug
OQT400-R201-2EP-IO	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable
OQT400-R201-2EP-IO-0,3M-V1	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
OQT400-R201-2EP-IO-0,3M-V31	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	Fixed cable with M8 plug
OQT400-R201-2EP-IO-V1	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	M12 connector plug
OQT400-R201-2EP-IO-V31	With multiple switch points	400	Red LED	Potentiometer, push-button	2 x push-pull	M8 connector plug
OQT400-R201-EP-IO-0,3M-V3	With multiple switch points	400	Red LED	Potentiometer, push-button	1 x push-pull	Fixed cable with M8 plug
OQT400-R201-EP-IO-V3	With multiple switch points	400	Red LED	Potentiometer, push-button	1 x push-pull	M8 connector plug
OBT600-R201-2EP-IO-0,3M-V1-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R201-2EP-IO-0,3M-V31-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R201-2EP-IO-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R201-2EP-IO-1T-L-Y0247	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R201-2EP-IO-1T-L-Y0250	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R201-2EP-IO-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R201-2EP-IO-V1-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R201-2EP-IO-V1-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R201-2EP-IO-V31-1T-L	With background evaluation	600	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R201-2EP-IO-V31-L	With background suppression	600	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R201-EP-IO-0,3M-V3-1T-L	With background evaluation	600	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type
OBT600-R201-EP-IO-0,3M-V3-L	With background suppression	600	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT600-R201-EP-IO-V3-1T-L	With background evaluation	600	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT600-R201-EP-IO-V3-L	With background suppression	600	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R201-2EP-IO	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R201-2EP-IO-0,3M-V1	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R201-2EP-IO-0,3M-V1-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R201-2EP-IO-0,3M-V31	With background suppression	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R201-2EP-IO-0,3M-V31-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R201-2EP-IO-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R201-2EP-IO-V1	With background suppression	650	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R201-2EP-IO-V1-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R201-2EP-IO-V31	With background suppression	650	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R201-2EP-IO-V31-1T	With background evaluation	650	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R201-EP-IO-0,3M-V3	With background suppression	650	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R201-EP-IO-0,3M-V3-1T	With background evaluation	650	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R201-EP-IO-V3	With background suppression	650	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R201-EP-IO-V3-1T	With background evaluation	650	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBD1400-R201-2EP-IO	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBD1400-R201-2EP-IO-0,3M-V1	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBD1400-R201-2EP-IO-0,3M-V31	Energetic	1400	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBD1400-R201-2EP-IO-V1	Energetic	1400	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBD1400-R201-2EP-IO-V31	Energetic	1400	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBD1400-R201-EP-IO-0,3M-V3	Energetic	1400	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBD1400-R201-EP-IO-V3	Energetic	1400	Red LED	Potentiometer	1 x push-pull	M8 connector plug



Accessories	
IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-R20x-Quick-Mount	Quick-mounting aid
OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-07	Mounting bracket complete with adjustment component
OMH-RL31-08	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



RL28 Series

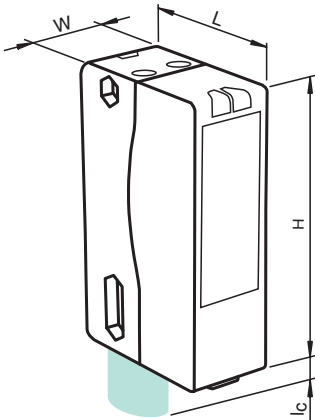
Thru-Beam Sensors



Standard Technical Data	
Function principle	Thru-beam sensor
Operating elements	Potentiometer
Housing width W	25.8 mm
Housing height H	88 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL	VdS
LA28/LK28-FC-Z/31/116	10000	Infrared LED, red LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■		■
LD28/LV28-F1-3974/47/82b/112	30000	Red LED	PNP	DC	10	30	M12 connector plug	65.5		■	■	
LA28/LK28-Z-F1/31/116	65000	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■	
LA28/LK28-LAS-F1-7675	120000	Red laser diode	Relay	AC/DC	12	240	Terminal compartment	65.5			■	
LD28/LV28-LAS-F1-7675	120000	Red laser diode	1 x push-pull	DC	10	30	M12 connector plug	54.3			■	
LD28/LV28-LAS-F1-7675/47	120000	Red laser diode	PNP	DC	10	30	M12 connector plug	54.3			■	



Accessories	
OMH-05	Mounting aid for circular profile $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket





RL28 Series

Retroreflective Sensors



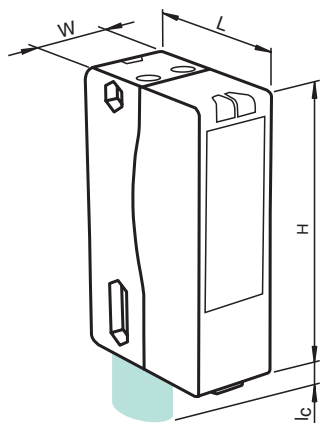
Standard Technical Data

Operating elements	Potentiometer
Housing width W	25.8 mm
Housing height H	88 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL	VdS
RL28-54-G-Z/47/112	For clear object detection	5600	Red LED	PNP	DC	10	30	M12 connector plug	65.5				
RL28-54-G-Z/47/116	For clear object detection	5600	Red LED	PNP	DC	10	30	Terminal compartment	65.5				
RL28-54-G-Z/49/116	For clear object detection	5600	Red LED	PNP/NPN	DC	10	30	Terminal compartment	65.5				
RL28-54-G-Z/76a/110/116	For clear object detection	5600	Red LED	1 x push-pull	DC	10	30	Terminal compartment	65.5				
RL28-54-G/47/105	For clear object detection	5600	Red LED	PNP	DC	10	30	M12 connector plug	54.3				
RL28-54-G/47/115	For clear object detection	5600	Red LED	PNP	DC	10	30	Fixed cable	54.3				
RL28-54-G/49/105	For clear object detection	5600	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3				
RL28-54-G/76a/110/115	For clear object detection	5600	Red LED	1 x push-pull	DC	10	30	Fixed cable	54.3				
RLK28-54-G/31/116	For clear object detection	5600	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5				
RLK28-FC-55-Z/31/116	Without polarization filter	3000	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5				
RL28-55-V-Z/47/82b/112	With polarization filter	13000	Red LED	PNP	DC	10	30	M12 connector plug	65.5				
RL28-55-V-Z/47/82b/116	With polarization filter	13000	Red LED	PNP	DC	10	30	Terminal compartment	65.5				
RL28-55-V-Z/49/76a/82b/116	With polarization filter	13000	Red LED	PNP/NPN	DC	10	30	Terminal compartment	65.5				
RL28-55-V/47/82b/105	With polarization filter	13000	Red LED	PNP	DC	10	30	M12 connector plug	54.3				
RL28-55-V/49/74	With polarization filter	13000	Red LED	PNP/NPN	DC	10	30	M18 connector plug	54.3				
RL28-55-V/49/82b/105	With polarization filter	13000	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3				
RL28-55-V/82b/105/110	With polarization filter	13000	Red LED	1 x push-pull	DC	10	30	M12 connector plug	54.3				
RL28-55-Z/47/76a/82b/116	With polarization filter	17000	Red LED	PNP	DC	10	30	Terminal compartment	65.5				
RL28-55-Z/47/82b/112	With polarization filter	17000	Red LED	PNP	DC	10	30	M12 connector plug	65.5				
RL28-55-Z/49/76a/82b/116	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	Terminal compartment	65.5				
RL28-55-Z/49/82b/112	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	M12 connector plug	65.5				
RL28-55-Z/76a/82b/110/116	With polarization filter	17000	Red LED	1 x push-pull	DC	10	30	Terminal compartment	65.5				
RL28-55-Z/82b/110/112	With polarization filter	17000	Red LED	1 x push-pull	DC	10	30	M12 connector plug	65.5				
RL28-55/47/73c	With polarization filter	17000	Red LED	PNP	DC	10	30	M12 connector plug	54.3				
RL28-55/47/74	With polarization filter	17000	Red LED	PNP	DC	10	30	M18 connector plug	54.3				
RL28-55/47/76a/105	With polarization filter	17000	Red LED	PNP	DC	10	30	M12 connector plug	54.3				
RL28-55/47/82b/105	With polarization filter	17000	Red LED	PNP	DC	10	30	M12 connector plug	54.3				
RL28-55/47/82b/105/106	With polarization filter	17000	Red LED	PNP	DC	19.2	28.8	M12 connector plug	54.3				
RL28-55/47/82b/115	With polarization filter	17000	Red LED	PNP	DC	10	30	Fixed cable	54.3				
RL28-55/49/74	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	M18 connector plug	54.3				
RL28-55/49/76b/105	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3				
RL28-55/49/82b/105	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3				
RL28-55/49/82b/115	With polarization filter	17000	Red LED	PNP/NPN	DC	10	30	Fixed cable	54.3				
RL28-55/82b/105/110	With polarization filter	17000	Red LED	1 x push-pull	DC	10	30	M12 connector plug	54.3				
RL28-55/82b/110/115	With polarization filter	17000	Red LED	1 x push-pull	DC	10	30	Fixed cable	54.3				
RLK28-55-V-Z/31/116	With polarization filter	13000	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5				
RLK28-55-Z/31/116	With polarization filter	17000	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5				
RLK28-55/31/116	With polarization filter	17000	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5				

Model number	Function principle	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL	VdS
RL28-55/35/47/115b	With polarization filter	20000	Red LED	PNP	DC	10	30	Fixed cable with M12 plug	54.3				■
RL28-55-LAS/47/82b/105	With polarization filter	30000	Red laser diode	PNP	DC	10	30	M12 connector plug	54.3				■
RL28-55-LAS/47/82b/115	With polarization filter	30000	Red laser diode	PNP	DC	10	30	Fixed cable	54.3				■
RL28-55-LAS/49/82b/105	With polarization filter	30000	Red laser diode	PNP/NPN	DC	10	30	M12 connector plug	54.3				■
RL28-55-LAS/76a/82b/105/110	With polarization filter	30000	Red laser diode	1 x push-pull	DC	10	30	M12 connector plug	54.3				■
RL28-55-LAS/76a/82b/110/115	With polarization filter	30000	Red laser diode	1 x push-pull	DC	10	30	Fixed cable	54.3				■
RLK28-55-LAS-Z/31/116	With polarization filter	30000	Red laser diode	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■	



Accessories	
OMH-05	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
REF-MH82	Rectangular reflector with microstructure, 82 mm x 60 mm, mounting holes

RL28 Series

Diffuse Mode Sensors



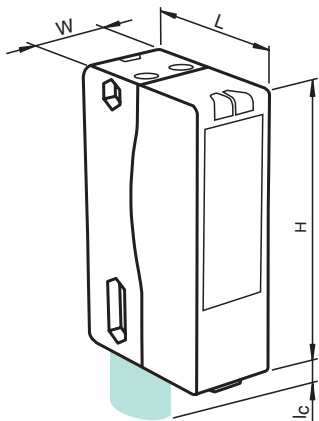
Standard Technical Data

Function principle	Triangulation sensor with background suppression
Operating elements	Potentiometer
Housing width W	25.8 mm
Housing height H	88 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL
RL28-8-H-400-FFP-RT/47/105	400	Red LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-IR-Z/110/116	400	Infrared LED	1 x push-pull	DC	10	30	Terminal compartment	54.3			■
RL28-8-H-400-IR-Z/47/116	400	Infrared LED	PNP	DC	10	30	Terminal compartment	54.3			■
RL28-8-H-400-IR-Z/49/116	400	Infrared LED	PNP/NPN	DC	10	30	Terminal compartment	54.3			■
RL28-8-H-400-IR/105/110	400	Infrared LED	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-IR/47/105	400	Infrared LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-IR/49/105	400	Infrared LED	PNP/NPN	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-IR/49/115	400	Infrared LED	PNP/NPN	DC	10	30	Fixed cable	54.3			■
RL28-8-H-400-RT-Z/110/116	400	Red LED	1 x push-pull	DC	10	30	Terminal compartment	54.3			■
RL28-8-H-400-RT-Z/49/116	400	Red LED	PNP/NPN	DC	10	30	Terminal compartment	54.3			■
RL28-8-H-400-RT/105/110	400	Red LED	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-RT/47/105	400	Red LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-RT/47/115	400	Red LED	PNP	DC	10	30	Fixed cable	54.3			■
RL28-8-H-400-RT/47/73c	400	Red LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-RT/49/105	400	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-400-RT/49/115	400	Red LED	PNP/NPN	DC	10	30	Fixed cable	54.3			■
RLK28-8-H-400-IR-Z/31/116	400	Infrared LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■
RLK28-8-H-400-RT-Z/31/116	400	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■
RL28-8-H-700-IR-Z/47/116	700	Infrared LED	PNP	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-700-IR-Z/49/116	700	Infrared LED	PNP/NPN	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-700-IR/105/110	700	Infrared LED	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-IR/110/115	700	Infrared LED	1 x push-pull	DC	10	30	Fixed cable	54.3			■
RL28-8-H-700-IR/47/105	700	Infrared LED	PNP	DC	10	30	M12 connector plug	54.3		■	■
RL28-8-H-700-IR/47/105/106	700	Infrared LED	PNP	DC	19.2	28.8	M12 connector plug	54.3			
RL28-8-H-700-IR/47/115	700	Infrared LED	PNP	DC	10	30	Fixed cable	54.3			■
RL28-8-H-700-IR/47/74	700	Infrared LED	PNP	DC	10	30	M18 connector plug	54.3			■
RL28-8-H-700-IR/49/105	700	Infrared LED	PNP/NPN	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-IR/49/115	700	Infrared LED	PNP/NPN	DC	10	30	Fixed cable	54.3			■
RL28-8-H-700-RT-Z/47/112	700	Red LED	PNP	DC	10	30	M12 connector plug	65.5			■
RL28-8-H-700-RT-Z/47/116	700	Red LED	PNP	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-700-RT-Z/49/116	700	Red LED	PNP/NPN	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-700-RT/105/110	700	Red LED	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-RT/47/105	700	Red LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-RT/47/115	700	Red LED	PNP	DC	10	30	Fixed cable	54.3			■
RL28-8-H-700-RT/47/73c	700	Red LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-RT/47/74	700	Red LED	PNP	DC	10	30	M18 connector plug	54.3			■
RL28-8-H-700-RT/49/105	700	Red LED	PNP/NPN	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-700-RT/49/115	700	Red LED	PNP/NPN	DC	10	30	Fixed cable	54.3			■
RLK28-8-H-700-IR-Z/31/116	700	Infrared LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■
RLK28-8-H-700-RT-Z/31/116	700	Red LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■

Model number	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL
RL28-8-H-1500-LAS/105/110	1500	Red laser diode	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-1500-LAS/47/105	1500	Red laser diode	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-1500-LAS/47/115b	1500	Red laser diode	PNP	DC	10	30	Fixed cable with M12 plug	54.3			■
RL28-8-H-2000-IR-Z/110/116	2000	Infrared LED	1 x push-pull	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-2000-IR-Z/47/112	2000	Infrared LED	PNP	DC	10	30	M12 connector plug	65.5			■
RL28-8-H-2000-IR-Z/47/116	2000	Infrared LED	PNP	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-2000-IR-Z/49/112	2000	Infrared LED	PNP/NPN	DC	10	30	M12 connector plug	65.5			■
RL28-8-H-2000-IR-Z/49/116	2000	Infrared LED	PNP/NPN	DC	10	30	Terminal compartment	65.5			■
RL28-8-H-2000-IR/105/110	2000	Infrared LED	1 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-2000-IR/110/115	2000	Infrared LED	1 x push-pull	DC	10	30	Fixed cable	54.3			■
RL28-8-H-2000-IR/47/105	2000	Infrared LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-2000-IR/47/105/106	2000	Infrared LED	PNP	DC	19.2	28.8	M12 connector plug	54.3			
RL28-8-H-2000-IR/47/115	2000	Infrared LED	PNP	DC	10	30	Fixed cable	54.3			■
RL28-8-H-2000-IR/47/73c	2000	Infrared LED	PNP	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-2000-IR/47/74	2000	Infrared LED	PNP	DC	10	30	M18 connector plug	54.3			■
RL28-8-H-2000-IR/49/105	2000	Infrared LED	PNP/NPN	DC	10	30	M12 connector plug	54.3			■
RL28-8-H-2000-IR/49/115	2000	Infrared LED	PNP/NPN	DC	10	30	Fixed cable	54.3			■
RL28-8-H-2000-IR/49/74	2000	Infrared LED	PNP/NPN	DC	10	30	M18 connector plug	54.3			■
RLK28-8-H-2000-IR-Z/31/116	2000	Infrared LED	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	■



Accessories	
OMH-05	Mounting aid for circular profile ø 12 mm or flat profile 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting

RL29 Series

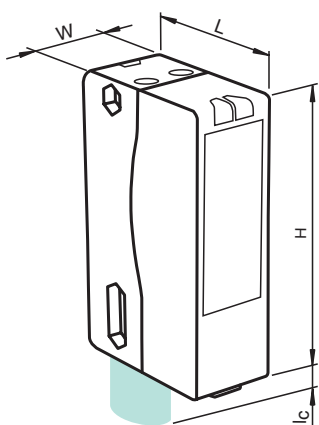


Standard Technical Data

Light type	Red LED
Housing width W	25.8 mm
Housing height H	88 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Operating elements	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC	UL
RL29-8-H-1200-RT/115/136	Triangulation sensor with background suppression	1200	Potentiometer	2 x push-pull	DC	10	30	Fixed cable	54.3			■
RL29-8-H-1200-RT/115b/136	Triangulation sensor with background suppression	1200	Potentiometer	2 x push-pull	DC	10	30	Fixed cable with M12 plug	54.3			■
RL29-8-H-1200-RT/59/73c/136	Triangulation sensor with background suppression	1200	Potentiometer	2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-8-H-1200-RT/73c/136	Triangulation sensor with background suppression	1200	Potentiometer	2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-8-2000/115b/136	Diffuse mode sensor, energetic	2000	Potentiometer	2 x push-pull	DC	10	30	Fixed cable with M12 plug	54.3			■
RL29-8-2000/59/73c/136	Diffuse mode sensor, energetic	2000	Potentiometer	2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-8-2000/73c/136	Diffuse mode sensor, energetic	2000	Potentiometer	2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-55-V/115b/136	Retroreflective sensor with polarization filter	6000		2 x push-pull	DC	10	30	Fixed cable with M12 plug	54.3			■
RL29-55-V/25/73c/136	Retroreflective sensor with polarization filter	6000		2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-55-V/73c/136	Retroreflective sensor with polarization filter	6000		2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-55/115b/136	Retroreflective sensor with polarization filter	7000		2 x push-pull	DC	10	30	Fixed cable with M12 plug	54.3			■
RL29-55/25/73c/136	Retroreflective sensor with polarization filter	7000		2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RL29-55/73c/136	Retroreflective sensor with polarization filter	7000		2 x push-pull	DC	10	30	M12 connector plug	54.3			■
RLK29-55/25/116	Retroreflective sensor with polarization filter	12000		Relay	AC/DC	24	230	Terminal compartment	65.5	■	■	■
RLK29-55/25/116-Set	Retroreflective sensor with polarization filter	12000		Relay	AC/DC	24	230	Terminal compartment	65.5	■	■	■
RLK29-55/59/116	Retroreflective sensor with polarization filter	12000		Relay	AC/DC	24	230	Terminal compartment	65.5	■	■	■
RLK29-55/59/116-Set	Retroreflective sensor with polarization filter	12000		Relay	AC/DC	24	230	Terminal compartment	65.5	■	■	■
LA29/LK29-Z-F1/31/116-SET	Thru-beam sensor	65000	Potentiometer	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	
LA29/LK29-Z-F2/31/116-SET	Thru-beam sensor	65000	Potentiometer	Relay	AC/DC	12	240	Terminal compartment	65.5	■	■	



Accessories

OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-05	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
OMH-RLK29-HW-120	Mounting bracket for rear wall mounting
REF-C110-2	Round reflector $\varnothing$ 84 mm, mounting hole in center
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

RL31 Series Thru-Beam Sensors

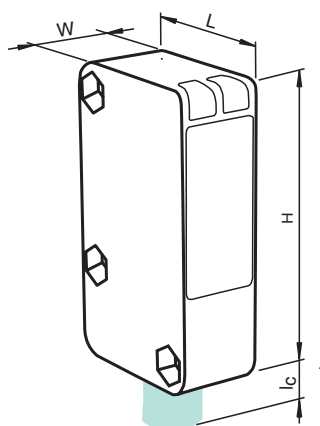


Standard Technical Data

Function principle	Thru-beam sensor
Detection range	43000 mm
Light type	Red LED
Housing length L	35 mm
Housing width W	18 mm
Housing height H	62 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Operating elements	Output type	Voltage type	UB (min)	UB (max)	Connection type	CCC	EAC	UL
LA31/LK31/16/25/31/115	Potentiometer	Relay	AC/DC	24	240	Fixed cable	■	■	
LA31/LK31/25/31/115		Relay	AC/DC	24	240	Fixed cable	■	■	
LA31/LK31/25/31/115 SET		Relay	AC/DC	24	240	Fixed cable	■	■	
LA31/LK31/25/31/115 SET2		Relay	AC/DC	24	240	Fixed cable	■	■	
LA31/LK31/31/115		Relay	AC/DC	24	240	Fixed cable	■	■	
LD31/LV31/25/73c/76a/136		2 x push-pull	DC	10	30	M12 connector plug		■	■
LD31/LV31/73c/76a/136		2 x push-pull	DC	10	30	M12 connector plug		■	■
LD31/LV31/76a/115/136		2 x push-pull	DC	10	30	Fixed cable			■



Accessories

OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-05	Mounting bracket for mounting on flat surfaces with two M4 screws

RL31 Series

Retroreflective Sensors

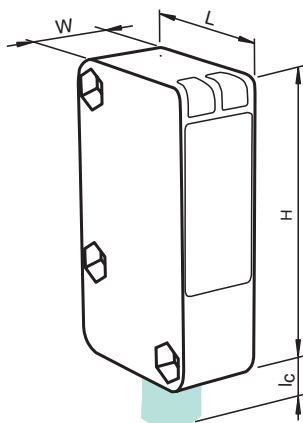


Standard Technical Data

Light type	Red LED
Housing length L	35 mm
Housing width W	18 mm
Housing height H	62 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Output type	Voltage type	UB (min)	UB (max)	Connection type	CCC	EAC	UL
RL31-54/115/136	With polarization filter	9000	2 x push-pull	DC	10	30	Fixed cable			■
RL31-54/115/136-5M	With polarization filter	9000	2 x push-pull	DC	10	30	Fixed cable			■
RL31-54/115b/136	With polarization filter	9000	2 x push-pull	DC	10	30	Fixed cable with M12 plug			■
RL31-54/25/73c/136	With polarization filter	9000	2 x push-pull	DC	10	30	M12 connector plug		■	■
RL31-54/73c/136	With polarization filter	9000	2 x push-pull	DC	10	30	M12 connector plug		■	■
RLK31-54/25/31/115	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/25/31/115 SET	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/25/31/115 SET2	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/25/31/33/115-15M	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/25/31/33/115-15M SET	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/25/31/33/115-5M	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/31/115	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-54/31/33/115	With polarization filter	9000	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-6/25/31/115	Without polarization filter	16,500	Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-6/31/115	Without polarization filter	16,500	Relay	AC/DC	24	240	Fixed cable	■	■	



Accessories

OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-RL31-01	Mounting bracket
OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-05	Mounting bracket for mounting on flat surfaces with two M4 screws
OMH-RL31-06	Stainless steel mounting bracket with adjustable half clamp on the side
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

RL31 Series

Diffuse Mode Sensors

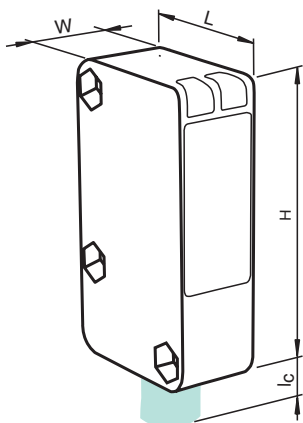


Standard Technical Data

Operating elements	Potentiometer
Housing length L	35 mm
Housing width W	18 mm
Housing height H	62 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Interface	Output type	Voltage type	UB (min)	UB (max)	Connection type	CCC	EAC	UL
RL31-8-H-800-IR/73c/136	With background suppression	800	Infrared LED		2 x push-pull	DC	10	30	M12 connector plug			■
RL31-8-H-800-RT-IO/59/115/136	With measurement core	800	Red LED	IO-Link	2 x push-pull	DC	10	30	Fixed cable			■
RL31-8-H-800-RT-IO/59/73c/136	With measurement core	800	Red LED	IO-Link	2 x push-pull	DC	10	30	M12 connector plug			■
RL31-8-H-800-RT/115/136	With background suppression	800	Red LED		2 x push-pull	DC	10	30	Fixed cable			■
RL31-8-H-800-RT/73c/136	With background suppression	800	Red LED		2 x push-pull	DC	10	30	M12 connector plug			■
RLK31-8-1200-RT/31/115	Energetic	1200	Red LED		Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-8-1200-RT/31/59/115	Energetic	1200	Red LED		Relay	AC/DC	24	240	Fixed cable	■	■	
RL31-8-1200-RT/59/73c/136	Energetic	1200	Red LED		2 x push-pull	DC	10	30	M12 connector plug			■
RL31-8-1200-RT/73c/136	Energetic	1200	Red LED		2 x push-pull	DC	10	30	M12 connector plug			■
RL31-8-2500-IR/115/136	Energetic	2500	Infrared LED		2 x push-pull	DC	10	30	Fixed cable			■
RL31-8-2500-IR/59/73c/136	Energetic	2500	Infrared LED		2 x push-pull	DC	10	30	M12 connector plug			■
RL31-8-2500-IR/73c/136	Energetic	2500	Infrared LED		2 x push-pull	DC	10	30	M12 connector plug			■
RLK31-8-2500-IR-3953/31	Energetic	2500	Infrared LED		Relay	AC/DC	24	240	Fixed cable			■
RLK31-8-2500-IR/31/115	Energetic	2500	Infrared LED		Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-8-2500-IR/31/33/115-5M	Energetic	2500	Infrared LED		Relay	AC/DC	24	240	Fixed cable	■	■	
RLK31-8-2500-IR/31/59/115	Energetic	2500	Infrared LED		Relay	AC/DC	24	240	Fixed cable	■	■	



Accessories

OMH-RL31-01	Mounting bracket
OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-RL31-05	Mounting bracket for mounting on flat surfaces with two M4 screws
OMH-RL31-06	Stainless steel mounting bracket with adjustable half clamp on the side
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

MLV41 Series

Retroreflective Sensors

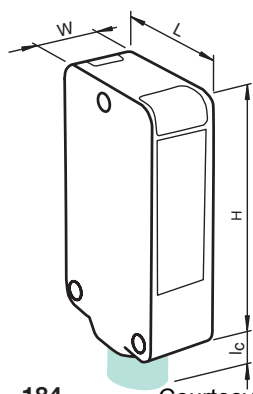


Standard Technical Data

Light type	Red LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	13.6 mm
Housing width W	31 mm
Housing height H	56.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Interface	Operating elements	Output type	Connection type	EAC
MLV41-54-G-IO/25/92/136	For clear object detection	4000	IO-Link		2 x push-pull	M12 connector plug	
MLV41-54-G/102/123/124/126g	For clear object detection	4000		Potentiometer	NPN	M12 connector plug	
MLV41-54-G/25/115/123/136	For clear object detection	4000			2 x push-pull	Fixed cable	
MLV41-54-G/25/123/124/136	For clear object detection	4000			2 x push-pull	M12 connector plug	
MLV41-54-G/25/70/123/136	For clear object detection	4000			2 x push-pull	M9 connector plug	
MLV41-54-G/25/76a/124/136	For clear object detection	4000			2 x push-pull	M12 connector plug	
MLV41-54-G/25/95/136	For clear object detection	4000			2 x push-pull	M8 connector plug	
MLV41-54-G/82b/103/123/124	For clear object detection	4000		Potentiometer	PNP	M12 connector plug	
MLV41-54-G/98/110	For clear object detection	4000		Potentiometer	1 x push-pull	M8 connector plug	
MLV41-55-IO/98/103	With polarization filter	7000	IO-Link		PNP	M8 connector plug	
MLV41-55-IO/92/136	With polarization filter	8000	IO-Link		2 x push-pull	M12 connector plug	
MLV41-55-IO/95/136	With polarization filter	8000	IO-Link		2 x push-pull	M8 connector plug	
MLV41-55/25/115/136	With polarization filter	8000			2 x push-pull	Fixed cable	■
MLV41-55/25/70/136	With polarization filter	8000			2 x push-pull	M9 connector plug	
MLV41-55/25/92/136	With polarization filter	8000			2 x push-pull	M12 connector plug	
MLV41-55/25/95/136	With polarization filter	8000			2 x push-pull	M8 connector plug	
MLV41-55/40a/82b/92/103	With polarization filter	8000		Potentiometer	PNP	M12 connector plug	
MLV41-55/40a/92/102/126b	With polarization filter	8000		Potentiometer	NPN	M12 connector plug	
MLV41-6-IO/92/136	Without polarization filter	9500	IO-Link		2 x push-pull	M12 connector plug	
MLV41-6-IO/95/136	Without polarization filter	9500	IO-Link		2 x push-pull	M8 connector plug	
MLV41-6-IO/98/103	Without polarization filter	9500	IO-Link		PNP	M8 connector plug	
MLV41-6/25/115/136	Without polarization filter	9500			2 x push-pull	Fixed cable	
MLV41-6/25/70/136	Without polarization filter	9500			2 x push-pull	M9 connector plug	
MLV41-6/25/82a/95/103	Without polarization filter	9500			PNP	M8 connector plug	
MLV41-6/25/92/136	Without polarization filter	9500			2 x push-pull	M12 connector plug	
MLV41-6/25/95/136	Without polarization filter	9500			2 x push-pull	M8 connector plug	
MLV41-6/82b/92/103	Without polarization filter	9500			PNP	M12 connector plug	
MLV41-6/92/102/126b	Without polarization filter	9500			NPN	M12 connector plug	



Accessories

OMH-09	Mounting bracket for MLV41 series sensors for mounting on M12 round bar
OMH-40	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V15-G-2M-PUR	Single-ended female cordset, M12, 5-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable

MLV41 Series

Diffuse Mode Sensors

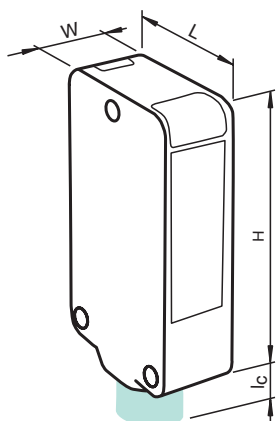


Standard Technical Data

Function principle	Triangulation sensor with background suppression
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	13.6 mm
Housing width W	31 mm
Housing height H	56.5 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Interface	Operating elements	Output type	Connection type	TU
MLV41-8-HV-60-IR/110/124/167	60	Infrared LED			1 x push-pull	M12 connector plug	
MLV41-8-H-120-RT-IO/65b/92/136	120	Red LED	IO-Link	Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-120-RT-IO/65b/95/136	120	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	■
MLV41-8-H-120-RT-IO/65b/98/103	120	Red LED	IO-Link	Potentiometer	PNP	M8 connector plug	■
MLV41-8-H-120-RT/65b/92/136	120	Red LED		Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-120-RT/65b/95/136	120	Red LED		Potentiometer	2 x push-pull	M8 connector plug	■
MLV41-8-H-350-IR/25/98/110	350	Infrared LED		Potentiometer	1 x push-pull	M8 connector plug	■
MLV41-8-H-350-IR/59/115/136	350	Infrared LED		Potentiometer	2 x push-pull	Fixed cable	■
MLV41-8-H-350-IR/59/115b/136	350	Infrared LED		Potentiometer	2 x push-pull	Fixed cable with M12 plug	■
MLV41-8-H-350-IR/59/92/136	350	Infrared LED		Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-350-IR/59/95/136	350	Infrared LED		Potentiometer	2 x push-pull	M8 connector plug	■
MLV41-8-H-350-RT/25/115/136	350	Red LED		Potentiometer	2 x push-pull	Fixed cable	■
MLV41-8-H-350-RT/25/92/136	350	Red LED		Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-350-RT/40a/98/110	350	Red LED		Potentiometer	1 x push-pull	M8 connector plug	■
MLV41-8-H-350-RT/59/115/136	350	Red LED		Potentiometer	2 x push-pull	Fixed cable	■
MLV41-8-H-350-RT/59/115b/136	350	Red LED		Potentiometer	2 x push-pull	Fixed cable with M12 plug	■
MLV41-8-H-350-RT/59/70/136	350	Red LED		Potentiometer	2 x push-pull	M9 connector plug	■
MLV41-8-H-350-RT/59/71/136	350	Red LED		Potentiometer	2 x push-pull	M9 connector plug	■
MLV41-8-H-350-RT/59/92/136	350	Red LED		Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-350-RT/59/95/136	350	Red LED		Potentiometer	2 x push-pull	M8 connector plug	■
MLV41-8-H-500-RT-IO/65b/92/136	500	Red LED	IO-Link	Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-500-RT-IO/65b/95/136	500	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	■
MLV41-8-H-500-RT/65b/92/136	500	Red LED		Potentiometer	2 x push-pull	M12 connector plug	■
MLV41-8-H-500-RT/65b/95/136	500	Red LED		Potentiometer	2 x push-pull	M8 connector plug	■



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-09	Mounting bracket for MLV41 series sensors for mounting on M12 round bar
OMH-40	Mounting bracket
OMH-MLV41-8-HV-U	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R300 Series

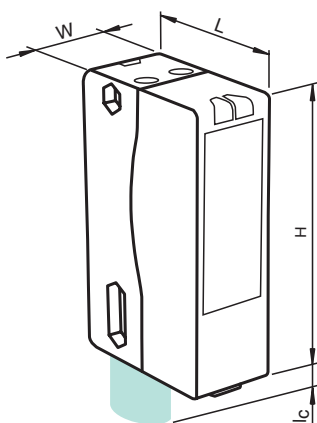


Standard Technical Data

Light type	Red LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	54.3 mm
Housing width W	25.8 mm
Housing height H	88 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Operating elements	Output type
OBR50M-R300-2P1-V1	Distance sensor	50000	Push-button	2 x push-pull
OBR50M-R300-2PP-V1	Distance sensor	50000	Push-button	2 x push-pull
OMR50M-R300-IEP-V1	Distance sensor	50000	Potentiometer, push-button	1 x push-pull, 1 x analog
OMR50M-R300-UEP-V1	Distance sensor	50000	Potentiometer, push-button	1 x push-pull, 1 x analog
OQR50M-R300-2EP-V1	Distance sensor	50000	Potentiometer, push-button	2 x push-pull
OBD8000-R300-2P1-V1-L	Diffuse mode sensor, energetic	8000	Push-button	2 x push-pull
OBD8000-R300-2PP-V1-L	Diffuse mode sensor, energetic	8000	Potentiometer	2 x push-pull
OMD8000-R300-IEP-V1-L	Distance sensor	8000	Potentiometer, push-button	1 x push-pull, 1 x analog
OMD8000-R300-UEP-V1-L	Distance sensor	8000	Potentiometer, push-button	1 x push-pull, 1 x analog
OQD8000-R300-2EP-V1-L	Distance sensor	8000	Potentiometer, push-button	2 x push-pull



Accessories

OMH-05	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-07-01	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-22	Mounting bracket
OMH-K03	Mounting clamp for sensors with dovetail groove
OMH-RLK29-HW	Mounting bracket for rear wall mounting
OMH-VDM28-01	Metal enclosure for inserting protective screens or apertures
OMH-VDM28-02	Mounting and fine adjustment device
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

ML17 Series

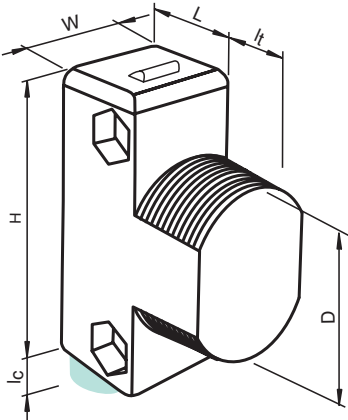
Retroreflective Sensors



Standard Technical Data	
Function principle	Retroreflective sensor with polarization filter
Detection range	3500 mm
Light type	Red LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	29.3 mm
Housing width W	15 mm
Housing height H	34.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Operating elements	Output type	Connection type
ML17-54/115/136	Potentiometer	2 x push-pull	Fixed cable
ML17-54/115b/120	Potentiometer	PNP	Fixed cable with M12 plug
ML17-54/115b/136	Potentiometer	2 x push-pull	Fixed cable with M12 plug
ML17-54/136/143	Potentiometer	2 x push-pull	M8 connector plug
ML17-54/25/103/115/154		PNP	Fixed cable
ML17-54/73/136	Potentiometer	2 x push-pull	M12 connector plug



Accessories	
OMH-ML17	Mounting bracket
OMH-ML17-1	Mounting bracket
OMH-ML17-EZ	Mounting bracket
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

ML17 Series

Diffuse Mode Sensors

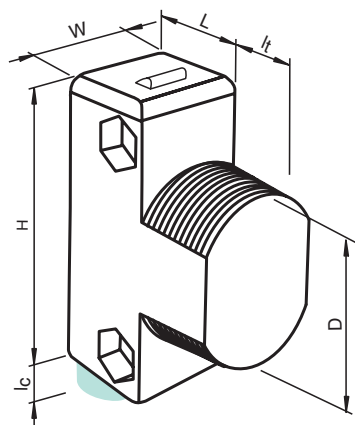


Standard Technical Data

Output type	2 x push-pull
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	29.3 mm
Housing width W	15 mm
Housing height H	34.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Connection type
ML17-8-H-50-RT/115/136	Triangulation sensor with background suppression	50	Red LED		Fixed cable
ML17-8-H-50-RT/115b/136	Triangulation sensor with background suppression	50	Red LED		Fixed cable with M12 plug
ML17-8-H-50-RT/136/143	Triangulation sensor with background suppression	50	Red LED		M8 connector plug
ML17-8-H-50-RT/73/136	Triangulation sensor with background suppression	50	Red LED		M12 connector plug
ML17-8-H-100-RT/115/136	Triangulation sensor with background suppression	100	Red LED		Fixed cable
ML17-8-H-100-RT/115b/136	Triangulation sensor with background suppression	100	Red LED		Fixed cable with M12 plug
ML17-8-H-100-RT/136/143	Triangulation sensor with background suppression	100	Red LED		M8 connector plug
ML17-8-H-100-RT/73/136	Triangulation sensor with background suppression	100	Red LED		M12 connector plug
ML17-8-450/115/136	Diffuse mode sensor, energetic	450	Infrared LED	Potentiometer	Fixed cable
ML17-8-450/115b/136	Diffuse mode sensor, energetic	450	Infrared LED	Potentiometer	Fixed cable with M12 plug
ML17-8-450/136/143	Diffuse mode sensor, energetic	450	Infrared LED	Potentiometer	M8 connector plug
ML17-8-450/73/136	Diffuse mode sensor, energetic	450	Infrared LED	Potentiometer	M12 connector plug



Accessories

OMH-ML17	Mounting bracket
OMH-ML17-1	Mounting bracket
OMH-ML17-EZ	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

ML29 Series



Standard Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Voltage type	DC
Housing length L	9.2 mm
Housing width W	11.6 mm
Housing height H	85.2 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type	UB (min)	UB (max)	Connection type	EAC
ML29T-P/32/59/115 100mm	2500	PNP	10	32	Fixed cable	
ML29-2P/25/103/143	5000	PNP	11	30	Other	
ML29-P/25/102/115	6000	NPN	11	30	Fixed cable	
ML29-P/25/102/143	6000	NPN	11	30	Other	
ML29-P/25/103/115	6000	PNP	11	30	Fixed cable	■
ML29-P/25/103/143	6000	PNP	11	30	Other	
ML29-P/59/102/115	6000	NPN	11	30	Fixed cable	
ML29-P/59/102/143	6000	NPN	11	30	Other	
ML29-P/59/103/115	6000	PNP	11	30	Fixed cable	
ML29-P/59/103/143	6000	PNP	11	30	Other	

Accessories

ML29 Front Plate	Front panel for ML29 series thru-beam sensors
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ML100 Series Thru-Beam Sensors

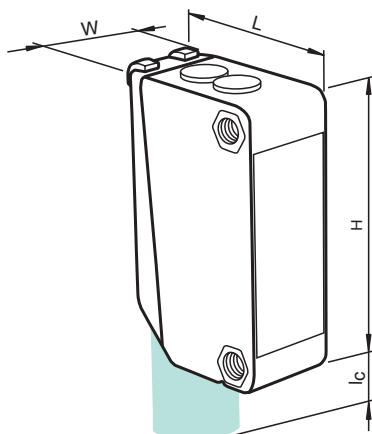


Standard Technical Data

Function principle	Thru-beam sensor
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	20 mm
Housing width W	11 mm
Housing height H	31 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Operating elements	Output type	Connection type	E1 type approval
M100/MV100-RT/76a/103/115	10000	Red LED	Potentiometer	PNP	Fixed cable	
M100/MV100-RT/76a/103/115a	10000	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	
M100/MV100-RT/76a/95/103	10000	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/76a/98/103	10000	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/76b/102/115	10000	Red LED	Potentiometer	NPN	Fixed cable	
M100/MV100-RT/76b/102/115a	10000	Red LED	Potentiometer	NPN	Fixed cable with M8 plug	
M100/MV100-RT/76b/95/102	10000	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-RT/76b/98/102	10000	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-IR/76a/103/115	15000	Infrared LED	Potentiometer	PNP	Fixed cable	
M100/MV100-IR/76a/95/103	15000	Infrared LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-IR/76b/102/115	15000	Infrared LED	Potentiometer	NPN	Fixed cable	
M100/MV100-IR/95/120/154	15000	Infrared LED		PNP	M8 connector plug	■
M100/MV100-RT/35/102/115/154	20000	Red LED		NPN	Fixed cable	
M100/MV100-RT/35/103/115/154	20000	Red LED		PNP	Fixed cable	
M100/MV100-RT/35/76a/103/115	20000	Red LED	Potentiometer	PNP	Fixed cable	
M100/MV100-RT/35/76a/95/103	20000	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/35/76a/98/103	20000	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/35/76b/102/115	20000	Red LED	Potentiometer	NPN	Fixed cable	
M100/MV100-RT/35/76b/95/102	20000	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-RT/35/76b/98/102	20000	Red LED	Potentiometer	NPN	M8 connector plug	



Accessories

OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid
OMH-ML100-01	Mounting aid, mounting bracket
OMH-ML100-02	Mounting aid, mounting bracket
OMH-ML100-04	Mounting aid, mounting bracket
OMH-ML100-05	Mounting aid, mounting bracket
OMH-ML100-09	Mounting aid for circular profile $\varnothing$ 12 mm or flat profile 1.5 mm ... 3 mm
OMH-ML100-S1	Mounting bracket
OMH-ML100-S2	Mounting aid, mounting bracket
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable



ML100 Series

Retroreflective Sensors



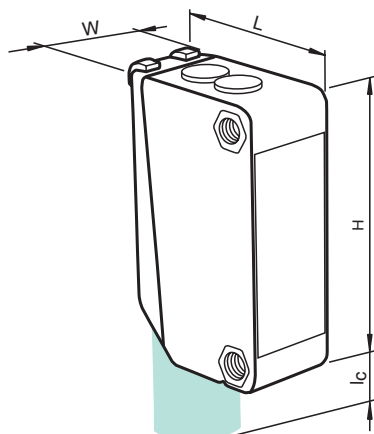
Standard Technical Data

Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	20 mm
Housing width W	11 mm
Housing height H	31 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	EAC	UL	E1
ML100-55-G/102/115	With polarization filter	2500	Red LED	Potentiometer	NPN	Fixed cable		■	
ML100-55-G/103/115	With polarization filter	2500	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-55-G/95/102	With polarization filter	2500	Red LED	Potentiometer	NPN	M8 connector plug		■	
ML100-55-G/95/103	With polarization filter	2500	Red LED	Potentiometer	PNP	M8 connector plug		■	
ML100-54-F/102/115	With polarization filter	2700	Red LED	Potentiometer	NPN	Fixed cable		■	
ML100-54-F/103/115	With polarization filter	2700	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-54-F/103/115b	With polarization filter	2700	Red LED	Potentiometer	PNP	Fixed cable with M12 plug		■	
ML100-54-F/25/102/115/154	With polarization filter	2700	Red LED		NPN	Fixed cable		■	
ML100-54-F/25/103/115/154	With polarization filter	2700	Red LED		PNP	Fixed cable		■	
ML100-54-F/25/103/115a/154	With polarization filter	2700	Red LED		PNP	Fixed cable with M8 plug		■	
ML100-54-F/25/103/115b/154	With polarization filter	2700	Red LED		PNP	Fixed cable with M12 plug		■	
ML100-54-F/25/95/102/154	With polarization filter	2700	Red LED		NPN	M8 connector plug		■	
ML100-54-F/25/95/103/154	With polarization filter	2700	Red LED		PNP	M8 connector plug		■	
ML100-54-F/95/102	With polarization filter	2700	Red LED	Potentiometer	NPN	M8 connector plug		■	
ML100-54-F/95/103	With polarization filter	2700	Red LED	Potentiometer	PNP	M8 connector plug		■	
ML100-54/102/115	With polarization filter	3500	Red LED	Potentiometer	NPN	Fixed cable		■	
ML100-54/103/115	With polarization filter	3500	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-54/59/82a/103/115a/154	With polarization filter	3500	Red LED		PNP	Fixed cable with M8 plug		■	
ML100-54/95/102	With polarization filter	3500	Red LED	Potentiometer	NPN	M8 connector plug		■	
ML100-54/95/103	With polarization filter	3500	Red LED	Potentiometer	PNP	M8 connector plug		■	
ML100-55/102/115	With polarization filter	5000	Red LED	Potentiometer	NPN	Fixed cable		■	
ML100-55/103/115	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-55/103/115a	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	■	■	
ML100-55/103/115b	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M12 plug	■	■	
ML100-55/115b/120	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M12 plug		■	
ML100-55/25/103/115b/154	With polarization filter	5000	Red LED		PNP	Fixed cable with M12 plug		■	
ML100-55/25/115b/120/154	With polarization filter	5000	Red LED		PNP	Fixed cable with M12 plug		■	
ML100-55/25/95/103/154	With polarization filter	5000	Red LED		PNP	M8 connector plug		■	
ML100-55/33/103/115-5M	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-55/33/103/115a	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M8 plug		■	
ML100-55/59/103/115	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable		■	
ML100-55/59/103/115a/154	With polarization filter	5000	Red LED		PNP	Fixed cable with M8 plug		■	
ML100-55/59/103/115b	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M12 plug		■	
ML100-55/59/95/103	With polarization filter	5000	Red LED	Potentiometer	PNP	M8 connector plug	■	■	
ML100-55/59/95/103/154	With polarization filter	5000	Red LED		PNP	M8 connector plug		■	
ML100-55/59/98/103/154	With polarization filter	5000	Red LED		PNP	M8 connector plug		■	
ML100-55/82a/103/115a	With polarization filter	5000	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	■	■	
ML100-55/95/102	With polarization filter	5000	Red LED	Potentiometer	NPN	M8 connector plug		■	
ML100-55/95/103	With polarization filter	5000	Red LED	Potentiometer	PNP	M8 connector plug	■	■	
ML100-55/98/102	With polarization filter	5000	Red LED	Potentiometer	NPN	M8 connector plug		■	

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Connection type	EAC	UL	E1
ML100-55/98/103	With polarization filter	5000	Red LED	Potentiometer	PNP	M8 connector plug		■	
ML100-6-IR/102/115	Without polarization filter	5000	Infrared LED	Potentiometer	NPN	Fixed cable		■	■
ML100-6-IR/103/115	Without polarization filter	5000	Infrared LED	Potentiometer	PNP	Fixed cable		■	■
ML100-6-IR/33/102/115	Without polarization filter	5000	Infrared LED	Potentiometer	NPN	Fixed cable		■	■
ML100-6-IR/95/102	Without polarization filter	5000	Infrared LED	Potentiometer	NPN	M8 connector plug		■	■
ML100-6-IR/95/103	Without polarization filter	5000	Infrared LED	Potentiometer	PNP	M8 connector plug		■	■



Accessories	
OFR-70-2	Optical reflective film, 70 mm x 70 mm
OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid
OMH-ML100-01	Mounting aid, mounting bracket
OMH-ML100-03	Mounting bracket for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm
OMH-ML100-04	Mounting aid, mounting bracket
OMH-ML100-05	Mounting aid, mounting bracket
OMH-ML100-08	Mounting aid, snap-on mounting
OMH-ML100-09	Mounting bracket for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm
OMH-ML100-S1	Mounting bracket

ML100 Series

Diffuse Mode Sensors



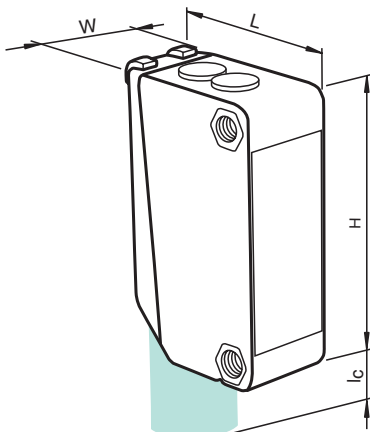
Standard Technical Data

Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	20 mm
Housing width W	11 mm
Housing height H	31 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	Connection type	EAC
ML100-8-HW-350-RT/95/103	With background evaluation	350	Red LED	PNP	M8 connector plug	
ML100-8-H-100-RT/102/115	With background suppression	100	Red LED	NPN	Fixed cable	
ML100-8-H-100-RT/103/115	With background suppression	100	Red LED	PNP	Fixed cable	
ML100-8-H-100-RT/103/115a	With background suppression	100	Red LED	PNP	Fixed cable with M8 plug	
ML100-8-H-100-RT/95/102	With background suppression	100	Red LED	NPN	M8 connector plug	
ML100-8-H-100-RT/95/103	With background suppression	100	Red LED	PNP	M8 connector plug	
ML100-8-H-100/115/120/162	With background suppression	100	Red LED	PNP	Fixed cable	
ML100-8-H-100/115/127/162	With background suppression	100	Red LED	NPN	Fixed cable	
ML100-8-H-100/95/120/162	With background suppression	100	Red LED	PNP	M8 connector plug	
ML100-8-H-100/95/127/162	With background suppression	100	Red LED	NPN	M8 connector plug	
ML100-8-HGU-100-RT/102/115/162	With convergent beam	100	Red LED	NPN	Fixed cable	
ML100-8-HGU-100-RT/103/115/162	With convergent beam	100	Red LED	PNP	Fixed cable	
ML100-8-HGU-100-RT/95/102/162	With convergent beam	100	Red LED	NPN	M8 connector plug	
ML100-8-HGU-100-RT/95/103/162	With convergent beam	100	Red LED	PNP	M8 connector plug	
ML100-8-H-200-IR/102/115	With background suppression	200	Infrared LED	NPN	Fixed cable	
ML100-8-H-200-IR/103/115	With background suppression	200	Infrared LED	PNP	Fixed cable	
ML100-8-H-200-IR/95/102	With background suppression	200	Infrared LED	NPN	M8 connector plug	
ML100-8-H-200-IR/95/103	With background suppression	200	Infrared LED	PNP	M8 connector plug	
ML100-8-W-200-RT/95/103	Energetic	200	Red LED	PNP	M8 connector plug	
ML100-8-W-200-RT/102/115	Energetic	200	Red LED	NPN	Fixed cable	
ML100-8-W-200-RT/102/115b	Energetic	200	Red LED	NPN	Fixed cable with M12 plug	
ML100-8-W-200-RT/103/115	Energetic	200	Red LED	PNP	Fixed cable	
ML100-8-W-200-RT/103/115b	Energetic	200	Red LED	PNP	Fixed cable with M12 plug	
ML100-8-W-200-RT/95/102	Energetic	200	Red LED	NPN	M8 connector plug	
ML100-8-H-350-RT/102/115	With background suppression	350	Red LED	NPN	Fixed cable	
ML100-8-H-350-RT/102/115a	With background suppression	350	Red LED	NPN	Fixed cable with M8 plug	
ML100-8-H-350-RT/103/115	With background suppression	350	Red LED	PNP	Fixed cable	
ML100-8-H-350-RT/103/115a	With background suppression	350	Red LED	PNP	Fixed cable with M8 plug	
ML100-8-H-350-RT/103/115b	With background suppression	350	Red LED	PNP	Fixed cable with M12 plug	
ML100-8-H-350-RT/33/103/115a	With background suppression	350	Red LED	PNP	Fixed cable with M8 plug	
ML100-8-H-350-RT/33/103/115b	With background suppression	350	Red LED	PNP	Fixed cable with M12 plug	
ML100-8-H-350-RT/95/102	With background suppression	350	Red LED	NPN	M8 connector plug	
ML100-8-H-350-RT/95/103	With background suppression	350	Red LED	PNP	M8 connector plug	
ML100-8-H-350-RT/98/102	With background suppression	350	Red LED	NPN	M8 connector plug	
ML100-8-H-350-RT/98/103	With background suppression	350	Red LED	PNP	M8 connector plug	
ML100-8-HW-350-RT/102/115	With background evaluation	350	Red LED	NPN	Fixed cable	
ML100-8-HW-350-RT/103/115	With background evaluation	350	Red LED	PNP	Fixed cable	
ML100-8-HW-350-RT/95/102	With background evaluation	350	Red LED	NPN	M8 connector plug	
ML100-8-1000-RT/102/115	Energetic	1000	Red LED	NPN	Fixed cable	
ML100-8-1000-RT/103/115	Energetic	1000	Red LED	PNP	Fixed cable	

Model number	Function principle	Detection range [mm]	Light type	Output type	Connection type	EAC
ML100-8-1000-RT/103/115a-1M	Energetic	1000	Red LED	PNP	Fixed cable with M8 plug	■
ML100-8-1000-RT/103/115b	Energetic	1000	Red LED	PNP	Fixed cable with M12 plug	■
ML100-8-1000-RT/95/102	Energetic	1000	Red LED	NPN	M8 connector plug	
ML100-8-1000-RT/95/103	Energetic	1000	Red LED	PNP	M8 connector plug	
ML100-8-1000-RT/98/102	Energetic	1000	Red LED	NPN	M8 connector plug	
ML100-8-1000-RT/98/103	Energetic	1000	Red LED	PNP	M8 connector plug	



Accessories	
OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid
OMH-ML100-01	Mounting aid, mounting bracket
OMH-ML100-02	Mounting aid, mounting bracket
OMH-ML100-03	Mounting aid for circular profile $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-04	Mounting aid, mounting bracket
OMH-ML100-05	Mounting aid, mounting bracket
OMH-ML100-09	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-S1	Mounting bracket
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

ML300 Series Thru-Beam Sensors

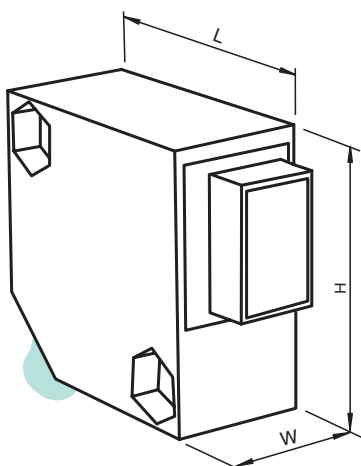


Standard Technical Data

Function principle	Thru-beam sensor
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	15 mm
Housing width W	30 mm
Housing height H	30 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type	EAC
ML300-P-6m-RT/25/102/115	6000	Red LED	NPN	Fixed cable	
ML300-P-6m-RT/25/103/115	6000	Red LED	PNP	Fixed cable	
ML300-P-6m-RT/25/98/102	6000	Red LED	NPN	M8 connector plug	
ML300-P-6m-RT/25/98/103	6000	Red LED	PNP	M8 connector plug	■
ML300-P-6m-RT/59/102/115	6000	Red LED	NPN	Fixed cable	
ML300-P-6m-RT/59/103/115	6000	Red LED	PNP	Fixed cable	
ML300-P-6m-RT/59/98/102	6000	Red LED	NPN	M8 connector plug	
ML300-P-6m-RT/59/98/103	6000	Red LED	PNP	M8 connector plug	
ML300-P-12m-IR/76b/115/120	12000	Infrared LED	PNP	Fixed cable	
ML300-P-12m-IR/76b/115/127	12000	Infrared LED	NPN	Fixed cable	
ML300-P-12m-IR/76b/82d/103/115	12000	Infrared LED	PNP	Fixed cable	
ML300-P-12m-IR/76b/82d/95/103	12000	Infrared LED	PNP	M8 connector plug	
ML300-P-12m-IR/76b/95/120	12000	Infrared LED	PNP	M8 connector plug	
ML300-P-12m-IR/76b/95/127	12000	Infrared LED	NPN	M8 connector plug	



Accessories

OMH-ML300-01	Mounting bracket for ML300 series sensors
OMH-ML300-02	Mounting bracket for ML300 series sensors
V3-GM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V31-GM-2M-PVC	Single-ended female cordset, M8, 4-pin, PVC cable
V31-WM-5M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

ML300 Series Retroreflective Sensors

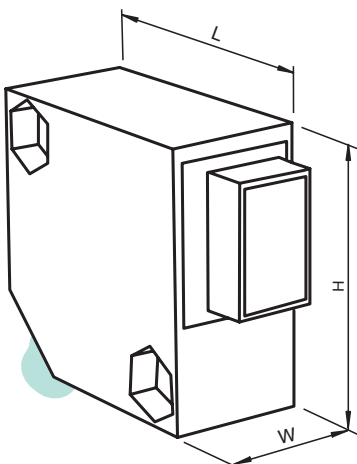


Standard Technical Data

Function principle	Retroreflective sensor with polarization filter
Light type	Red LED
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	15 mm
Housing width W	30 mm
Housing height H	30 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type	Connection type
ML300-55-2m-RT/25/102/115	2000	NPN	Fixed cable
ML300-55-2m-RT/25/103/115	2000	PNP	Fixed cable
ML300-55-2m-RT/25/98/102	2000	NPN	M8 connector plug
ML300-55-2m-RT/25/98/103	2000	PNP	M8 connector plug
ML300-55-2m-RT/59/102/115	2000	NPN	Fixed cable
ML300-55-2m-RT/59/103/115	2000	PNP	Fixed cable
ML300-55-2m-RT/59/98/102	2000	NPN	M8 connector plug
ML300-55-2m-RT/59/98/103	2000	PNP	M8 connector plug
ML300-55-6m-RT/25/115/120	6000	PNP	Fixed cable
ML300-55-6m-RT/25/115/127	6000	NPN	Fixed cable
ML300-55-6m-RT/25/82d/103/115	6000	PNP	Fixed cable
ML300-55-6m-RT/25/82d/95/103	6000	PNP	M8 connector plug
ML300-55-6m-RT/25/95/120	6000	PNP	M8 connector plug
ML300-55-6m-RT/25/95/127	6000	NPN	M8 connector plug

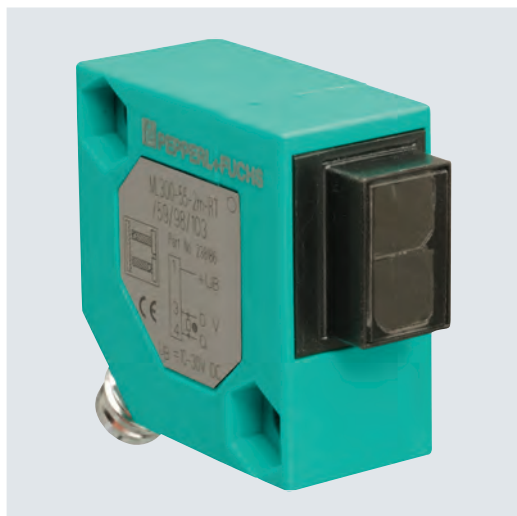


Accessories

OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-ML300-01	Mounting bracket
OMH-ML300-02	Mounting bracket on 35 mm DIN mounting rail
REF-C110-2	Round reflector $\varnothing$ 84 mm, mounting hole in center
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes, retaining tab
REF-H60-2	Reflector with mounting holes
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
V3-GM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V3-WM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V31-GM-2M-PVC	Single-ended female cordset, M8, 4-pin, PVC cable

ML300 Series

Diffuse Mode Sensors

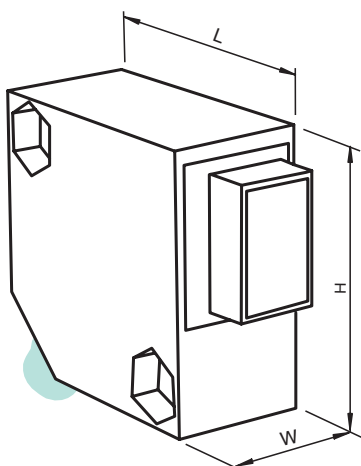


Standard Technical Data

Voltage type	DC
Operating voltage (max)	30 V
Housing length L	15 mm
Housing width W	30 mm
Housing height H	30 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	UB (min)	Connection type
ML300-8-100-RT/79a/115/122	Energetic	100	Red LED		Analog output	15	Fixed cable
ML300-8-100-RT/79a/95/122	Energetic	100	Red LED		Analog output	15	M8 connector plug
ML300-8-H-200-RT/59/98/103	With background suppression	200	Red LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-H-200-RT/25/115/120	With background suppression	200	Red LED	Potentiometer	PNP	10	Fixed cable
ML300-8-H-200-RT/25/115/127	With background suppression	200	Red LED	Potentiometer	NPN	10	Fixed cable
ML300-8-H-200-RT/25/95/120	With background suppression	200	Red LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-H-200-RT/25/95/127	With background suppression	200	Red LED	Potentiometer	NPN	10	M8 connector plug
ML300-8-H-200-RT/25/98/102	With background suppression	200	Red LED	Potentiometer	NPN	10	M8 connector plug
ML300-8-H-200-RT/25/98/103	With background suppression	200	Red LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-600-RT/59/98/103	Energetic	600	Red LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-600-RT/25/102/115	Energetic	600	Red LED	Potentiometer	NPN	10	Fixed cable
ML300-8-600-RT/25/103/115	Energetic	600	Red LED	Potentiometer	PNP	10	Fixed cable
ML300-8-600-RT/25/98/102	Energetic	600	Red LED	Potentiometer	NPN	10	M8 connector plug
ML300-8-600-RT/25/98/103	Energetic	600	Red LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-600-RT/59/102/115	Energetic	600	Red LED	Potentiometer	NPN	10	Fixed cable
ML300-8-600-RT/59/103/115	Energetic	600	Red LED	Potentiometer	PNP	10	Fixed cable
ML300-8-600-RT/59/98/102	Energetic	600	Red LED	Potentiometer	NPN	10	M8 connector plug
ML300-8-1200-IR/25/115/120	Energetic	1200	Infrared LED	Potentiometer	PNP	10	Fixed cable
ML300-8-1200-IR/25/115/127	Energetic	1200	Infrared LED	Potentiometer	NPN	10	Fixed cable
ML300-8-1200-IR/25/82d/103/115	Energetic	1200	Infrared LED	Potentiometer	PNP	10	Fixed cable
ML300-8-1200-IR/25/82d/95/103	Energetic	1200	Infrared LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-1200-IR/25/95/120	Energetic	1200	Infrared LED	Potentiometer	PNP	10	M8 connector plug
ML300-8-1200-IR/25/95/127	Energetic	1200	Infrared LED	Potentiometer	NPN	10	M8 connector plug



Accessories

OMH-ML300-01	Mounting bracket
OMH-ML300-02	Mounting bracket on 35 mm DIN mounting rail
V3-GM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PVC	Single-ended female cordset, M8, 3-pin, PVC cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PVC	Single-ended female cordset, M8, 4-pin, PVC cable

BB10 Series

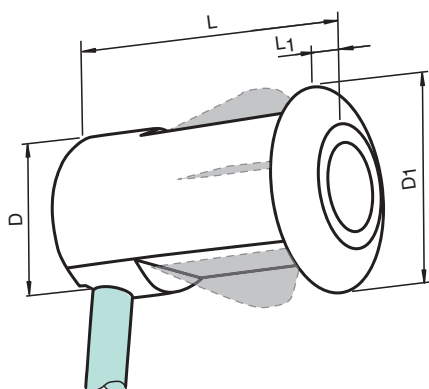


Standard Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	22 mm
Housing diameter D	12.5 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type	Connection type	E1 type approval
BB10-P-F1/25/33/35/102/115-7m	3000	NPN	Fixed cable	■
BB10-P-F1/25/33/35/103/115-7m	3000	PNP	Fixed cable	■
BB10-P-F1/33/35/59/102/115-7m	3000	NPN	Fixed cable	■
BB10-P-F1/33/35/59/103/115-7m	3000	PNP	Fixed cable	■
BB10-P-F2/25/33/35/102/115-7m	3000	NPN	Fixed cable	■
BB10-P-F2/25/33/35/103/115-7m	3000	PNP	Fixed cable	■
BB10-P-F2/33/35/59/102/115-7m	3000	NPN	Fixed cable	■
BB10-P-F2/33/35/59/103/115-7m	3000	PNP	Fixed cable	■
BB10-P/25/33/76b/102/115-7m	6000	NPN	Fixed cable	■
BB10-P/25/33/76b/102/115e	6000	NPN	Fixed cable with JST plug	■
BB10-P/25/33/76b/103/115-10m	6000	PNP	Fixed cable	■
BB10-P/25/33/76b/103/115-7m	6000	PNP	Fixed cable	■
BB10-P/25/33/76b/103/115a	6000	PNP	Fixed cable with M8 plug	
BB10-P/25/33/76b/103/115e	6000	PNP	Fixed cable with JST plug	■
BB10-P/33/59/76b/102/115-7m	6000	NPN	Fixed cable	■
BB10-P/33/59/76b/103/115-7m	6000	PNP	Fixed cable	■



GLV18 Series

Thru-Beam Sensors

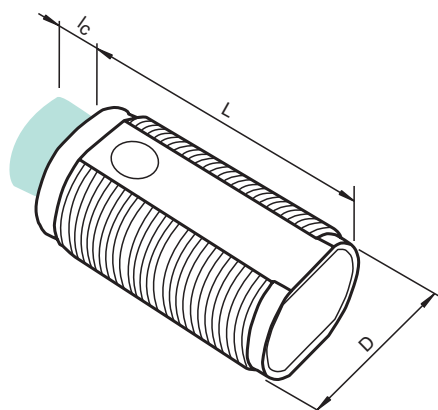


Standard Technical Data

Function principle	Thru-beam sensor
Light type	Red LED
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC
GA18-S/GK18-S/25/115/161	12000	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GA18-S/GK18-S/59/115/161	12000	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GA18-S/GK18-S/59/161/166	12000	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GD18-S/GV18-S/115/120	12000	PNP	DC	10	30	Fixed cable	39.8		
GD18-S/GV18-S/25/102/115	12000	NPN	DC	10	30	Fixed cable	39.8		
GD18-S/GV18-S/59/102/115	12000	NPN	DC	10	30	Fixed cable	39.8		
GD18-S/GV18-S/59/102/159	12000	NPN	DC	10	30	M12 connector plug	43.9		
GD18-S/GV18-S/73/120	12000	PNP	DC	10	30	M12 connector plug	43.9		
GA18/GK18/25/115/161	20000	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GA18/GK18/25/161/166	20000	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GA18/GK18/59/115/161	20000	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GA18/GK18/59/161/166	20000	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GD18/GV18/115/120	20000	PNP	DC	10	30	Fixed cable	39.8		
GD18/GV18/25/102/115	20000	NPN	DC	10	30	Fixed cable	39.8		
GD18/GV18/25/102/159	20000	NPN	DC	10	30	M12 connector plug	43.9		
GD18/GV18/25/103/115	20000	PNP	DC	10	30	Fixed cable	39.8		
GD18/GV18/25/103/159	20000	PNP	DC	10	30	M12 connector plug	43.9		
GD18/GV18/59/102/115	20000	NPN	DC	10	30	Fixed cable	39.8		
GD18/GV18/59/102/159	20000	NPN	DC	10	30	M12 connector plug	43.9		
GD18/GV18/73/120	20000	PNP	DC	10	30	M12 connector plug	43.9		



Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
CPZ18B03	Mounting aid with swivel nut



GLV18 Series

Retroreflective Sensors



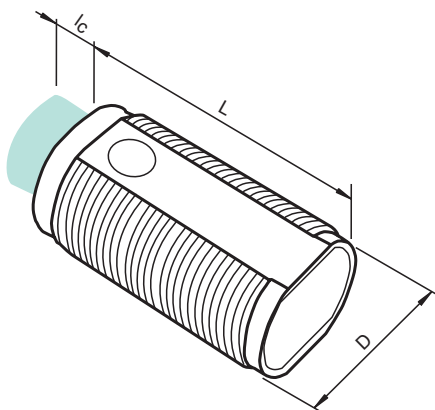
Standard Technical Data

Light type	Red LED
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC
GLV18-55-G/115/120	With polarization filter	2500	PNP	DC	10	30	Fixed cable	39.8		
GLV18-55-G/25/102/115	With polarization filter	2500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55-G/25/102/159	With polarization filter	2500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55-G/59/102/115	With polarization filter	2500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55-G/59/102/159	With polarization filter	2500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55-G/73/120	With polarization filter	2500	PNP	DC	10	30	M12 connector plug	43.9		
GLK18-55-S/25/115/161	With polarization filter	3500	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-55-S/25/161/166	With polarization filter	3500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-55-S/59/115/161	With polarization filter	3500	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-55-S/59/161/166	With polarization filter	3500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-55/25/115/161	With polarization filter	4000	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-55/25/161/166	With polarization filter	4000	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-55/59/115/161	With polarization filter	4000	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-55/59/161/166	With polarization filter	4000	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-6-S/25/115/161	Without polarization filter	5500	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-6-S/25/161/166	Without polarization filter	5500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-6-S/59/115/161	Without polarization filter	5500	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-6-S/59/161/166	Without polarization filter	5500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-6/25/115/161	Without polarization filter	6500	N-MOSFET	AC/DC	20	250	Fixed cable	60	■	■
GLK18-6/25/161/166	Without polarization filter	6500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-6/59/115/161	Without polarization filter	6500	N-MOSFET	AC/DC	20	250	Fixed cable	60	■	■
GLK18-6/59/161/166	Without polarization filter	6500	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLV18-55-S/115/120	With polarization filter	3500	PNP	DC	10	30	Fixed cable	39.8		
GLV18-55-S/25/102/115	With polarization filter	3500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55-S/25/102/159	With polarization filter	3500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55-S/25/103/159	With polarization filter	3500	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-55-S/59/102/115	With polarization filter	3500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55-S/59/102/159	With polarization filter	3500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55-S/73/120	With polarization filter	3500	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-55/115/120	With polarization filter	4000	PNP	DC	10	30	Fixed cable	39.8		
GLV18-55/115b/120	With polarization filter	4000	PNP	DC	10	30	Fixed cable with M12 plug	39.8		
GLV18-55/25/102/115	With polarization filter	4000	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55/25/102/159	With polarization filter	4000	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55/25/103/115	With polarization filter	4000	PNP	DC	10	30	Fixed cable	39.8		
GLV18-55/25/103/159	With polarization filter	4000	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-55/33/115/120 C=3,5m	With polarization filter	4000	PNP	DC	10	30	Fixed cable	39.8		
GLV18-55/59/102/115	With polarization filter	4000	NPN	DC	10	30	Fixed cable	39.8		
GLV18-55/59/102/159	With polarization filter	4000	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-55/59/103/159	With polarization filter	4000	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-55/73/120	With polarization filter	4000	PNP	DC	10	30	M12 connector plug	43.9		

Model number	Function principle	Detection range [mm]	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC
GLV18-6-S/115/120	Without polarization filter	5500	PNP	DC	10	30	Fixed cable	39.8		
GLV18-6-S/25/102/115	Without polarization filter	5500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-6-S/59/102/115	Without polarization filter	5500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-6-S/59/102/159	Without polarization filter	5500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-6-S/73/120	Without polarization filter	5500	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-6/115/120	Without polarization filter	6500	PNP	DC	10	30	Fixed cable	39.8		
GLV18-6/25/102/115	Without polarization filter	6500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-6/25/102/159	Without polarization filter	6500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-6/25/103/115	Without polarization filter	6500	PNP	DC	10	30	Fixed cable	39.8		
GLV18-6/25/103/159	Without polarization filter	6500	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-6/59/102/115	Without polarization filter	6500	NPN	DC	10	30	Fixed cable	39.8		
GLV18-6/59/102/159	Without polarization filter	6500	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-6/73/120	Without polarization filter	6500	PNP	DC	10	30	M12 connector plug	43.9		



Accessories	
BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
CPZ18B03	Mounting aid with swivel nut
REF-C110-2	Round reflector ø 84 mm, mounting hole in center
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes, retaining tab
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V11-G-2M-PUR	Single-ended female cordset, M12, 3-pin, PUR cable

GLV18 Series

Diffuse Mode Sensors



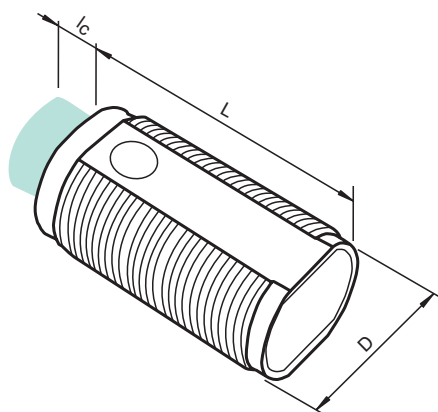
Standard Technical Data

Operating elements	Potentiometer
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC
GLV18-8-H-120/73/120	With background suppression	120	Red LED	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-8-H-120/115/120	With background suppression	120	Red LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-H-120/25/102/115	With background suppression	120	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-H-120/25/102/159	With background suppression	120	Red LED	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-8-H-120/59/102/115	With background suppression	120	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-H-120/59/102/159	With background suppression	120	Red LED	NPN	DC	10	30	M12 connector plug	43.9		
GLK18-8-200-S/25/115/161	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-8-200-S/25/161/166	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-8-200-S/59/115/161	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-8-200/25/115/161	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-8-200/25/161/166	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-8-200/59/115/161	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-8-200/59/161/166	Energetic	200	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-8-400-S/25/115/161	Energetic	400	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	69	■	■
GLK18-8-400-S/25/161/166	Energetic	400	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	73	■	■
GLK18-8-450/25/115/161	Energetic	450	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-8-450/25/161/166	Energetic	450	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLK18-8-450/59/115/161	Energetic	450	Red LED	N-MOSFET	AC/DC	20	250	Fixed cable	56	■	■
GLK18-8-450/59/161/166	Energetic	450	Red LED	N-MOSFET	AC/DC	20	250	Micro AC connector plug	60	■	■
GLV18-8-200-S/115/120	Energetic	200	Red LED	PNP	DC	10	30	Fixed cable	53.2		
GLV18-8-200-S/25/102/115	Energetic	200	Red LED	NPN	DC	10	30	Fixed cable	53.2		
GLV18-8-200-S/25/102/159	Energetic	200	Red LED	NPN	DC	10	30	M12 connector plug	57.3		
GLV18-8-200-S/73/120	Energetic	200	Red LED	PNP	DC	10	30	M12 connector plug	57.3		
GLV18-8-200/115/120	Energetic	200	Red LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-200/25/102/115	Energetic	200	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-200/25/102/159	Energetic	200	Red LED	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-8-200/25/33/102/115 K=5m	Energetic	200	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-200/33/115/120 C=5m	Energetic	200	Red LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-200/59/102/115	Energetic	200	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-200/59/103/115	Energetic	200	Red LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-200/59/103/159	Energetic	200	Red LED	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-8-200/73/120	Energetic	200	Red LED	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-8-400-S/115/120	Energetic	400	Red LED	PNP	DC	10	30	Fixed cable	53.2		
GLV18-8-400-S/25/102/115	Energetic	400	Red LED	NPN	DC	10	30	Fixed cable	53.2		
GLV18-8-400-S/25/102/159	Energetic	400	Red LED	NPN	DC	10	30	M12 connector plug	57.3		
GLV18-8-400-S/59/102/159	Energetic	400	Red LED	NPN	DC	10	30	M12 connector plug	57.3		
GLV18-8-400-S/73/120	Energetic	400	Red LED	PNP	DC	10	30	M12 connector plug	57.3		
GLV18-8-450/115/120	Energetic	450	Red LED	PNP	DC	10	30	Fixed cable	39.8		

Model number	Function principle	Detection range [mm]	Light type	Output type	Voltage type	UB (min)	UB (max)	Connection type	Length L	CCC	EAC
GLV18-8-450/25/102/115	Energetic	450	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-450/25/102/159	Energetic	450	Red LED	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-8-450/59/102/115	Energetic	450	Red LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-450/59/102/159	Energetic	450	Red LED	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-8-450/59/103/115	Energetic	450	Red LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-450/59/103/159	Energetic	450	Red LED	PNP	DC	10	30	M12 connector plug	43.9		
GLV18-8-450/73/120	Energetic	450	Red LED	PNP	DC	10	30	M12 connector plug	43.9		■
GLV18-8-600-IR/115/120	Energetic	600	Infrared LED	PNP	DC	10	30	Fixed cable	39.8		
GLV18-8-600-IR/25/102/115	Energetic	600	Infrared LED	NPN	DC	10	30	Fixed cable	39.8		
GLV18-8-600-IR/25/102/159	Energetic	600	Infrared LED	NPN	DC	10	30	M12 connector plug	43.9		
GLV18-8-600-IR/73/120	Energetic	600	Infrared LED	PNP	DC	10	30	M12 connector plug	43.9		



Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
CPZ18B03	Mounting aid with swivel nut
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V11-G-2M-PUR	Single-ended female cordset, M12, 3-pin, PUR cable



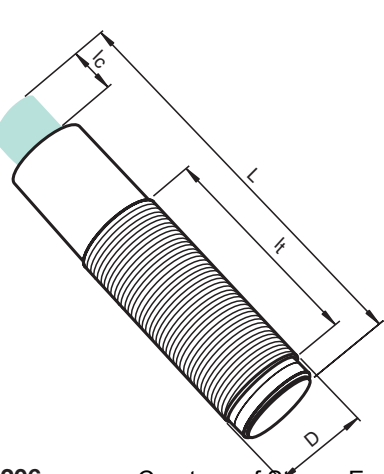
12GM Series



Standard Technical Data	
Light type	Red LED
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing diameter D	12 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Output type	Connection type	Length L
OBD300-12GM40-E4	Diffuse mode sensor, energetic	300	NPN	Fixed cable	45
OBD300-12GM40-E4-V1	Diffuse mode sensor, energetic	300	NPN	M12 connector plug	55
OBD300-12GM40-E5	Diffuse mode sensor, energetic	300	PNP	Fixed cable	45
OBD300-12GM40-E5-V1	Diffuse mode sensor, energetic	300	PNP	M12 connector plug	55
OBR2500-12GM40-E5-V1	Retroreflective sensor with polarization filter	2500	PNP	M12 connector plug	55
OBR2500-12GM40-E4	Retroreflective sensor with polarization filter	2500	NPN	Fixed cable	45
OBR2500-12GM40-E4-V1	Retroreflective sensor with polarization filter	2500	NPN	M12 connector plug	55
OBR2500-12GM40-E5	Retroreflective sensor with polarization filter	2500	PNP	Fixed cable	45
OBE6000-12GM40-SE4	Thru-beam sensor	6000	NPN	Fixed cable	45
OBE6000-12GM40-SE4-V1	Thru-beam sensor	6000	NPN	M12 connector plug	55
OBE6000-12GM40-SE5	Thru-beam sensor	6000	PNP	Fixed cable	45
OBE6000-12GM40-SE5-V1	Thru-beam sensor	6000	PNP	M12 connector plug	55



Accessories	
BF 12	Mounting adapter, 12 mm
BF 12-F	Plastic mounting adapter, 12 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes, retaining tab
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
REF-VR10	Rectangular reflector, 60 mm x 19 mm, mounting holes
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

18GM Series



Standard Technical Data

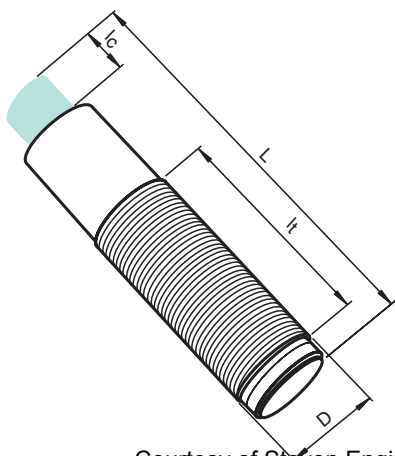
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	60 mm
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Output type	Connection type	EAC
OBT200-18GM60-E4	Diffuse mode sensor, energetic	200	Infrared LED	NPN	Fixed cable	
OBT200-18GM60-E4-V1	Diffuse mode sensor, energetic	200	Infrared LED	NPN	M12 connector plug	
OBT200-18GM60-E5	Diffuse mode sensor, energetic	200	Infrared LED	PNP	Fixed cable	
OBT200-18GM60-E5-V1	Diffuse mode sensor, energetic	200	Infrared LED	PNP	M12 connector plug	
OBT500-18GM60-E4	Diffuse mode sensor, energetic	500	Infrared LED	NPN	Fixed cable	
OBT500-18GM60-E4-V1	Diffuse mode sensor, energetic	500	Infrared LED	NPN	M12 connector plug	
OBT500-18GM60-E5	Diffuse mode sensor, energetic	500	Infrared LED	PNP	Fixed cable	
OBT500-18GM60-E5-V1	Diffuse mode sensor, energetic	500	Infrared LED	PNP	M12 connector plug	■
OBS4000-18GM60-E5-V1	Retroreflective sensor with polarization filter	4000	Red LED	PNP	M12 connector plug	■
OBS4000-18GM60-E4	Retroreflective sensor with polarization filter	4000	Red LED	NPN	Fixed cable	
OBS4000-18GM60-E4-V1	Retroreflective sensor with polarization filter	4000	Red LED	NPN	M12 connector plug	
OBS4000-18GM60-E5	Retroreflective sensor with polarization filter	4000	Red LED	PNP	Fixed cable	
OBE10M-18GM60-RT-SE4	Thru-beam sensor	10000	Red LED	NPN	Fixed cable	
OBE10M-18GM60-RT-SE4-V1	Thru-beam sensor	10000	Red LED	NPN	M12 connector plug	
OBE10M-18GM60-RT-SE5-V1	Thru-beam sensor	10000	Red LED	PNP	M12 connector plug	
OBE10M-18GM60-SE4	Thru-beam sensor	10000	Infrared LED	NPN	Fixed cable	
OBE10M-18GM60-SE4-V1	Thru-beam sensor	10000	Infrared LED	NPN	M12 connector plug	
OBE10M-18GM60-SE5	Thru-beam sensor	10000	Infrared LED	PNP	Fixed cable	
OBE10M-18GM60-SE5-V1	Thru-beam sensor	10000	Infrared LED	PNP	M12 connector plug	

Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
CPZ18B03	Mounting aid with swivel nut
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable



VL18 Series

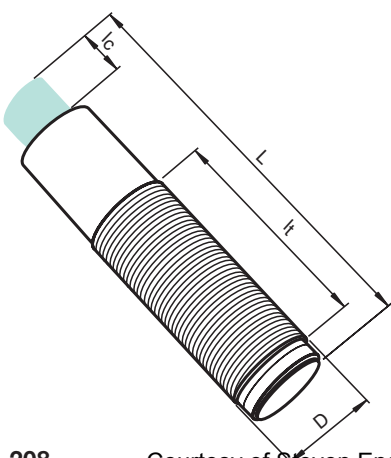


Standard Technical Data

Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing diameter D	18 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Function principle	Detection range [mm]	Light type	Operating elements	Output type	Length L	UL
VT18-8-H-120-M/40a/65b/118/128	Triangulation sensor with background suppression	120	Red LED	Potentiometer	1 x push-pull	65	■
VT18-8-H-120-M/30/40a/65b/118	Triangulation sensor with background suppression	120	Red LED	Potentiometer	NPN	65	■
VT18-8-H-120-M/32/40a/65b/118	Triangulation sensor with background suppression	120	Red LED	Potentiometer	PNP	65	■
VT18-8-400-M/40a/118/128	Diffuse mode sensor, energetic	400	Red LED	Potentiometer	1 x push-pull	65	■
VT18-8-400-M-LAS/30/40a/118	Diffuse mode sensor, energetic	400	Red laser diode	Potentiometer	NPN	65	■
VT18-8-400-M-LAS/32/40a/118	Diffuse mode sensor, energetic	400	Red laser diode	Potentiometer	PNP	65	■
VT18-8-400-M-LAS/40a/118/128	Diffuse mode sensor, energetic	400	Red laser diode	Potentiometer	1 x push-pull	65	■
VT18-8-400-M/30/40a/118	Diffuse mode sensor, energetic	400	Red LED	Potentiometer	NPN	65	■
VT18-8-400-M/32/40a/118	Diffuse mode sensor, energetic	400	Red LED	Potentiometer	PNP	65	■
VL18-54-MS/40a/118/128	Retroreflective sensor with polarization filter	3500	Red LED	Potentiometer	1 x push-pull	65	■
VL18-54-M/32/40a/82b/118	Retroreflective sensor with polarization filter	3500	Red LED	Potentiometer	PNP	65	■
VL18-54-M/40a/118/128	Retroreflective sensor with polarization filter	3500	Red LED	Potentiometer	1 x push-pull	65	■
VL18-54-MS/32/40a/82b/118	Retroreflective sensor with polarization filter	3500	Red LED	Potentiometer	PNP	65	■
E18-LAS/EV18-LAS/25/32/76a/92	Thru-beam sensor	10000	Red laser diode		PNP	80	
E18/EV18-LAS/32/59/76a/92	Thru-beam sensor	10000	Red laser diode		PNP	80	
VL18-54-M-LAS/30/40a/118/126b	Retroreflective sensor with polarization filter	18000	Red laser diode	Potentiometer	NPN	65	■
VL18-54-M-LAS/32/40a/82b/118	Retroreflective sensor with polarization filter	18000	Red laser diode	Potentiometer	PNP	65	■
VL18-54-M-LAS/40a/118/128	Retroreflective sensor with polarization filter	18000	Red laser diode	Potentiometer	1 x push-pull	65	■
VS18/VSE18-M-LAS/32/40a/76a/82b/118	Thru-beam sensor	60000	Red laser diode	Potentiometer	PNP	65	■
VS18/VSE18-M-LAS/40a/76a/118/128	Thru-beam sensor	60000	Red laser diode	Potentiometer	1 x push-pull	65	■



Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 mm ... 30 mm
OMH-VL18	Mounting aid with swivel nut
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable



Photoelectric Distance Sensors

Intelligent Functionality for Incredible Precision

Extensive knowledge of engineering enables Pepperl+Fuchs to produce distance-based photoelectric sensors that use the innovative PRT (Pulse Ranging Technology) and MPT (Multi Pixel Technology) measuring principles. This integrated intelligence ensures the highest levels of precision and safety during object detection.



2-D LiDAR Sensors

The R2000 series 2-D laser scanners with 360° measuring angle achieve maximum power in the most compact housing design. The R2100 multi-ray LED scanner guarantees maximum robustness and cost efficiency. The optimized portfolio of 2-D LiDAR sensors from Pepperl+Fuchs thus offers solutions from basic to high-end applications.

Typical Applications

- Navigation of driverless transport systems
- Profile detection in robotics applications
- Collision avoidance in automated storage and retrieval systems or suspended conveyor systems
- Detection of overhangs, e.g., for pallets
- Highly precise monitoring of large areas

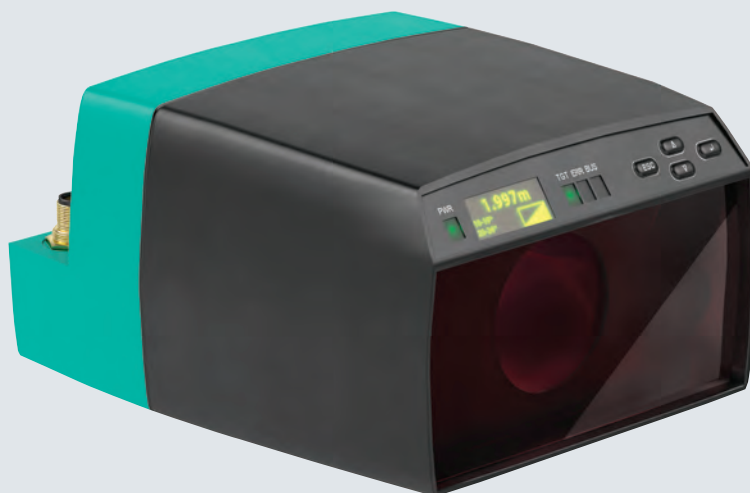
The Benefits of Selected 2-D LiDAR Sensors at a Glance

R2000 UHD 2-D laser scanner:

- Small light spot for detecting the smallest of objects and precise edge detection
- All-round visibility thanks to 360° measuring angle and up to 100 m detection range
- Optimized for quick measurement applications with a high scan rate of 100 Hz
- Highest angular resolution of 0.014° for highly precise navigation and positioning tasks

R2100 multi-ray LED scanner:

- LED measurement guarantees a long service life
- Ideal for mechanically demanding applications as there are no moving parts in the sensor
- 2-D measurement over 11 individual beams
- Large light spots tolerate different surface structures



Pulse Ranging Technology (PRT) for Medium to Very Long Ranges

Equipped with the innovative Pulse ranging Technology (PRT), the distance sensors from Pepperl+Fuchs detect objects at distances from a few centimeters to several hundred meters with millimeter precision. Thanks to intelligent sensor electronics, PRT allows highly accurate, reliable, and clear measurements with high repeatability and fast response times, even with difficult environmental conditions and object properties. The VDM28 series offers stable production processes thanks to high immunity and resistance to environmental influences. It offers a wide range of applications thanks to the availability of switching and measuring sensors, including with IO-Link. The VDM100 distance measurement devices offer increased productivity with ultra-fast, continuous measurement and high reliability with a measuring range of up to 300 m and an accuracy of 0.5 mm.

Typical Applications

- Positioning of automated storage and retrieval systems, portal cranes, or moving carriages
- Level measurement
- Compartment occupied check in high-bay warehouses
- Stack height control
- Thickness measurement of coils

Multi Pixel Technology (MPT) for Near-Range Applications

Multi Pixel Technology from Pepperl+Fuchs uses the proven triangulation principle for the precise measurement of distances to shorter distances. Target objects are clearly distinguished from the background, while adjustable operating modes allow interfering objects in the foreground or background to be reliably suppressed. No other technology provides greater reliability in object detection at short distances.

The R10x and R20x series offer an end-to-end solution of photoelectric functional principles and innovative technologies in an identical housing. Equipped with IO-Link, the series meet all the requirements of Sensorik4.0.

Typical Applications

- Well suited for simple and complex applications
- Detection of objects with changing object surface and structure
- Evaluation of multiple switching thresholds or switching windows
- Suitable for applications in highly fluctuating ambient conditions

Distance Sensors

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R100 Series



Standard Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	21.5 mm
Housing width W	11 mm
Housing height H	44.5 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type
OMT50-R100-2EP-IO	50	Red LED	2 x push-pull	Fixed cable
OMT50-R100-2EP-IO-0,3M-V1	50	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT50-R100-2EP-IO-0,3M-V1-L	50	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT50-R100-2EP-IO-0,3M-V31	50	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT50-R100-2EP-IO-0,3M-V31-L	50	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT50-R100-2EP-IO-L	50	Red laser diode	2 x push-pull	Fixed cable
OMT50-R100-2EP-IO-V31	50	Red LED	2 x push-pull	M8 connector plug
OMT50-R100-2EP-IO-V31-L	50	Red laser diode	2 x push-pull	M8 connector plug
OMT50-R100-EP-IO-0,3M-V3	50	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT50-R100-EP-IO-0,3M-V3-L	50	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT50-R100-EP-IO-V3	50	Red LED	1 x push-pull	M8 connector plug
OMT50-R100-EP-IO-V3-L	50	Red laser diode	1 x push-pull	M8 connector plug
OMT100-R100-2EP-IO	100	Red LED	2 x push-pull	Fixed cable
OMT100-R100-2EP-IO-0,3M-V1	100	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT100-R100-2EP-IO-0,3M-V1-L	100	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT100-R100-2EP-IO-0,3M-V31	100	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT100-R100-2EP-IO-0,3M-V31-L	100	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT100-R100-2EP-IO-L	100	Red laser diode	2 x push-pull	Fixed cable
OMT100-R100-2EP-IO-V31	100	Red LED	2 x push-pull	M8 connector plug
OMT100-R100-2EP-IO-V31-L	100	Red laser diode	2 x push-pull	M8 connector plug
OMT100-R100-EP-IO-0,3M-V3	100	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT100-R100-EP-IO-0,3M-V3-L	100	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT100-R100-EP-IO-V3	100	Red LED	1 x push-pull	M8 connector plug
OMT100-R100-EP-IO-V3-L	100	Red laser diode	1 x push-pull	M8 connector plug
OMT150-R100-2EP-IO-0,3M-V1-L	150	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT150-R100-2EP-IO-0,3M-V31-L	150	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT150-R100-2EP-IO-L	150	Red laser diode	2 x push-pull	Fixed cable
OMT150-R100-2EP-IO-V31-L	150	Red laser diode	2 x push-pull	M8 connector plug
OMT150-R100-EP-IO-0,3M-V3-L	150	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT150-R100-EP-IO-V3-L	150	Red laser diode	1 x push-pull	M8 connector plug
OMT200-R100-2EP-IO	200	Red LED	2 x push-pull	Fixed cable
OMT200-R100-2EP-IO-0,3M-V1	200	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT200-R100-2EP-IO-0,3M-V31	200	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT200-R100-2EP-IO-V31	200	Red LED	2 x push-pull	M8 connector plug
OMT200-R100-EP-IO-0,3M-V3	200	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT200-R100-EP-IO-V3	200	Red LED	1 x push-pull	M8 connector plug

R101 Series



Standard Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
Housing height H	41.4 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type
OMT50-R101-2EP-IO	50	Red LED	2 x push-pull	Fixed cable
OMT50-R101-2EP-IO-0,3M-V1	50	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT50-R101-2EP-IO-0,3M-V1-L	50	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT50-R101-2EP-IO-0,3M-V31	50	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT50-R101-2EP-IO-0,3M-V31-L	50	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT50-R101-2EP-IO-L	50	Red laser diode	2 x push-pull	Fixed cable
OMT50-R101-2EP-IO-V31	50	Red LED	2 x push-pull	M8 connector plug
OMT50-R101-2EP-IO-V31-L	50	Red laser diode	2 x push-pull	M8 connector plug
OMT50-R101-EP-IO-0,3M-V3	50	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT50-R101-EP-IO-0,3M-V3-L	50	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT50-R101-EP-IO-V3	50	Red LED	1 x push-pull	M8 connector plug
OMT50-R101-EP-IO-V3-L	50	Red laser diode	1 x push-pull	M8 connector plug
OMT100-R101-2EP-IO	100	Red LED	2 x push-pull	Fixed cable
OMT100-R101-2EP-IO-0,3M-V1	100	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT100-R101-2EP-IO-0,3M-V1-L	100	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT100-R101-2EP-IO-0,3M-V31	100	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT100-R101-2EP-IO-0,3M-V31-L	100	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT100-R101-2EP-IO-L	100	Red laser diode	2 x push-pull	Fixed cable
OMT100-R101-2EP-IO-V31	100	Red LED	2 x push-pull	M8 connector plug
OMT100-R101-2EP-IO-V31-L	100	Red laser diode	2 x push-pull	M8 connector plug
OMT100-R101-EP-IO-0,3M-V3	100	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT100-R101-EP-IO-0,3M-V3-L	100	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT100-R101-EP-IO-V3	100	Red LED	1 x push-pull	M8 connector plug
OMT100-R101-EP-IO-V3-L	100	Red laser diode	1 x push-pull	M8 connector plug
OMT150-R101-2EP-IO-0,3M-V1-L	150	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT150-R101-2EP-IO-0,3M-V31-L	150	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT150-R101-2EP-IO-L	150	Red laser diode	2 x push-pull	Fixed cable
OMT150-R101-2EP-IO-V31-L	150	Red laser diode	2 x push-pull	M8 connector plug
OMT150-R101-EP-IO-0,3M-V3-L	150	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT150-R101-EP-IO-V3-L	150	Red laser diode	1 x push-pull	M8 connector plug
OMT200-R101-2EP-IO	200	Red LED	2 x push-pull	Fixed cable
OMT200-R101-2EP-IO-0,3M-V1	200	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT200-R101-2EP-IO-0,3M-V31	200	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT200-R101-2EP-IO-V31	200	Red LED	2 x push-pull	M8 connector plug
OMT200-R101-EP-IO-0,3M-V3	200	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT200-R101-EP-IO-V3	200	Red LED	1 x push-pull	M8 connector plug

R103 Series

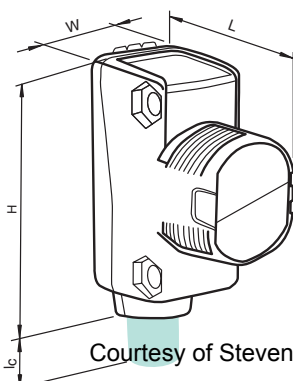


Standard Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	26.7 mm
Housing width W	15 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	Connection type	Height H
OMT45-R103-EP-IO-V3-L	45	Red laser diode	1 x push-pull	M8 connector plug	43.9
OMT45-R103-2EP-IO	45	Red LED	2 x push-pull	Fixed cable	36.5
OMT45-R103-2EP-IO-0,3M-V1	45	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5
OMT45-R103-2EP-IO-0,3M-V1-L	45	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5
OMT45-R103-2EP-IO-0,3M-V31	45	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5
OMT45-R103-2EP-IO-0,3M-V31-L	45	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5
OMT45-R103-2EP-IO-L	45	Red laser diode	2 x push-pull	Fixed cable	36.5
OMT45-R103-2EP-IO-V31	45	Red LED	2 x push-pull	M8 connector plug	43.9
OMT45-R103-2EP-IO-V31-L	45	Red laser diode	2 x push-pull	M8 connector plug	43.9
OMT45-R103-EP-IO-0,3M-V3	45	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5
OMT45-R103-EP-IO-0,3M-V3-L	45	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5
OMT45-R103-EP-IO-V3	45	Red LED	1 x push-pull	M8 connector plug	43.9
OMT100-R103-2EP-IO	100	Red LED	2 x push-pull	Fixed cable	36.5
OMT100-R103-2EP-IO-0,3M-V1	100	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5
OMT100-R103-2EP-IO-0,3M-V31	100	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5
OMT100-R103-2EP-IO-V31	100	Red LED	2 x push-pull	M8 connector plug	43.9
OMT100-R103-EP-IO-0,3M-V3	100	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5
OMT100-R103-EP-IO-V3	100	Red LED	1 x push-pull	M8 connector plug	43.9
OMT120-R103-2EP-IO-0,3M-V1-L	120	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5
OMT120-R103-2EP-IO-0,3M-V31-L	120	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5
OMT120-R103-2EP-IO-L	120	Red laser diode	2 x push-pull	Fixed cable	36.5
OMT120-R103-2EP-IO-V31-L	120	Red laser diode	2 x push-pull	M8 connector plug	43.9
OMT120-R103-EP-IO-0,3M-V3-L	120	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5
OMT120-R103-EP-IO-V3-L	120	Red laser diode	1 x push-pull	M8 connector plug	43.9
OMT150-R103-2EP-IO	150	Red LED	2 x push-pull	Fixed cable	36.5
OMT150-R103-2EP-IO-0,3M-V1	150	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5
OMT150-R103-2EP-IO-0,3M-V31	150	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5
OMT150-R103-2EP-IO-V31	150	Red LED	2 x push-pull	M8 connector plug	43.9
OMT150-R103-EP-IO-0,3M-V3	150	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5
OMT150-R103-EP-IO-V3	150	Red LED	1 x push-pull	M8 connector plug	43.9



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Accessories

IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-ML100-031	Mounting aid for circular profiles, $\varnothing$ 10 mm ... 14 mm or flat profiles 1 mm ... 5 mm
OMH-ML100-09	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R200 Series



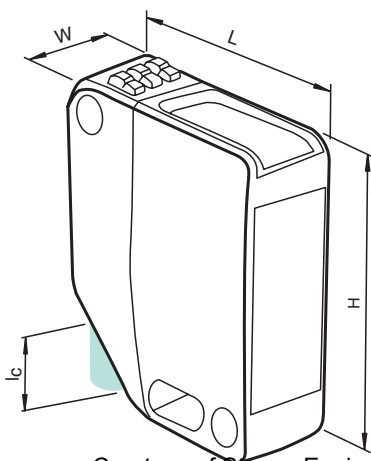
Standard Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	50.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	Connection type
OMT300-R200-2EP-IO	300	Red LED	2 x push-pull	10	Fixed cable
OMT300-R200-2EP-IO-0,3M-V1	300	Red LED	2 x push-pull	10	Fixed cable with M12 plug
OMT300-R200-2EP-IO-0,3M-V1-L	300	Red laser diode	2 x push-pull	10	Fixed cable with M12 plug
OMT300-R200-2EP-IO-0,3M-V31	300	Red LED	2 x push-pull	10	Fixed cable with M8 plug
OMT300-R200-2EP-IO-0,3M-V31-L	300	Red laser diode	2 x push-pull	10	Fixed cable with M8 plug
OMT300-R200-2EP-IO-L	300	Red laser diode	2 x push-pull	10	Fixed cable
OMT300-R200-2EP-IO-V1	300	Red LED	2 x push-pull	10	M12 connector plug
OMT300-R200-2EP-IO-V1-L	300	Red laser diode	2 x push-pull	10	M12 connector plug
OMT300-R200-2EP-IO-V31	300	Red LED	2 x push-pull	10	M8 connector plug
OMT300-R200-2EP-IO-V31-L	300	Red laser diode	2 x push-pull	10	M8 connector plug
OMT300-R200-EP-IO-0,3M-V3	300	Red LED	1 x push-pull	10	Fixed cable with M8 plug
OMT300-R200-EP-IO-0,3M-V3-L	300	Red laser diode	1 x push-pull	10	Fixed cable with M8 plug
OMT300-R200-EP-IO-V3	300	Red LED	1 x push-pull	10	M8 connector plug
OMT300-R200-EP-IO-V3-L	300	Red laser diode	1 x push-pull	10	M8 connector plug
OMT300-R200-IEP-IO-0,3M-V1	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R200-IEP-IO-0,3M-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R200-IEP-IO-0,3M-V31	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R200-IEP-IO-0,3M-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R200-IEP-IO-V1	300	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R200-IEP-IO-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R200-IEP-IO-V31	300	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R200-IEP-IO-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R200-UEP-IO-0,3M-V1	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R200-UEP-IO-0,3M-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R200-UEP-IO-0,3M-V31	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R200-UEP-IO-0,3M-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R200-UEP-IO-V1	300	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R200-UEP-IO-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R200-UEP-IO-V31	300	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R200-UEP-IO-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT550-R200-2EP-IO	550	Red LED	2 x push-pull	10	Fixed cable
OMT550-R200-2EP-IO-0,3M-V1	550	Red LED	2 x push-pull	10	Fixed cable with M12 plug
OMT550-R200-2EP-IO-0,3M-V31	550	Red LED	2 x push-pull	10	Fixed cable with M8 plug
OMT550-R200-2EP-IO-V1	550	Red LED	2 x push-pull	10	M12 connector plug
OMT550-R200-2EP-IO-V31	550	Red LED	2 x push-pull	10	M8 connector plug
OMT550-R200-EP-IO-0,3M-V3	550	Red LED	1 x push-pull	10	Fixed cable with M8 plug
OMT550-R200-EP-IO-V3	550	Red LED	1 x push-pull	10	M8 connector plug
OMT550-R200-IEP-IO-0,3M-V1	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT550-R200-IEP-IO-0,3M-V31	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT550-R200-IEP-IO-V1	550	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug

Model number	Detection range [mm]	Light type	Output type	UB (min)	Connection type
OMT550-R200-IEP-IO-V31	550	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT550-R200-UEP-IO-0,3M-V1	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT550-R200-UEP-IO-0,3M-V31	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT550-R200-UEP-IO-V1	550	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT550-R200-UEP-IO-V31	550	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT600-R200-2EP-IO-0,3M-V1-L	600	Red laser diode	2 x push-pull	10	Fixed cable with M12 plug
OMT600-R200-2EP-IO-0,3M-V31-L	600	Red laser diode	2 x push-pull	10	Fixed cable with M8 plug
OMT600-R200-2EP-IO-L	600	Red laser diode	2 x push-pull	10	Fixed cable
OMT600-R200-2EP-IO-V1-L	600	Red laser diode	2 x push-pull	10	M12 connector plug
OMT600-R200-2EP-IO-V31-L	600	Red laser diode	2 x push-pull	10	M8 connector plug
OMT600-R200-EP-IO-0,3M-V3-L	600	Red laser diode	1 x push-pull	10	Fixed cable with M8 plug
OMT600-R200-EP-IO-V3-L	600	Red laser diode	1 x push-pull	10	M8 connector plug
OMT600-R200-IEP-IO-0,3M-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT600-R200-IEP-IO-0,3M-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT600-R200-IEP-IO-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT600-R200-IEP-IO-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT600-R200-UEP-IO-0,3M-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT600-R200-UEP-IO-0,3M-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT600-R200-UEP-IO-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT600-R200-UEP-IO-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug



Accessories	
IO-Link-Master02-USB	IO-Link master, power supply via USB port
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick-mounting aid
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

R201 Series



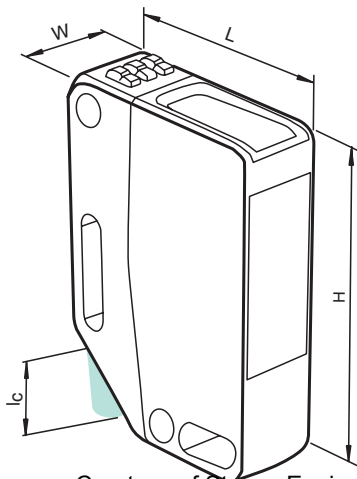
Standard Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	61.7 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UB (min)	Connection type
OMT300-R201-2EP-IO	300	Red LED	2 x push-pull	10	Fixed cable
OMT300-R201-2EP-IO-L	300	Red laser diode	2 x push-pull	10	Fixed cable
OMT300-R201-2EP-IO-V1	300	Red LED	2 x push-pull	10	M12 connector plug
OMT300-R201-2EP-IO-0,3M-V1	300	Red LED	2 x push-pull	10	Fixed cable with M12 plug
OMT300-R201-2EP-IO-V31	300	Red LED	2 x push-pull	10	M8 connector plug
OMT300-R201-2EP-IO-0,3M-V31	300	Red LED	2 x push-pull	10	Fixed cable with M8 plug
OMT300-R201-EP-IO-V3	300	Red LED	1 x push-pull	10	M8 connector plug
OMT300-R201-EP-IO-0,3M-V3	300	Red LED	1 x push-pull	10	Fixed cable with M8 plug
OMT300-R201-IEP-IO-V1	300	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R201-IEP-IO-0,3M-V1	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R201-IEP-IO-V31	300	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R201-IEP-IO-0,3M-V31	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R201-UEP-IO-V1	300	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R201-UEP-IO-0,3M-V1	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R201-UEP-IO-V31	300	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R201-UEP-IO-0,3M-V31	300	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R201-2EP-IO-V1-L	300	Red laser diode	2 x push-pull	10	M12 connector plug
OMT300-R201-2EP-IO-0,3M-V1-L	300	Red laser diode	2 x push-pull	10	Fixed cable with M12 plug
OMT300-R201-2EP-IO-0,3M-V31-L	300	Red laser diode	2 x push-pull	10	Fixed cable with M8 plug
OMT300-R201-2EP-IO-V31-L	300	Red laser diode	2 x push-pull	10	M8 connector plug
OMT300-R201-EP-IO-0,3M-V3-L	300	Red laser diode	1 x push-pull	10	Fixed cable with M8 plug
OMT300-R201-EP-IO-V3-L	300	Red laser diode	1 x push-pull	10	M8 connector plug
OMT300-R201-IEP-IO-0,3M-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R201-IEP-IO-0,3M-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R201-IEP-IO-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R201-IEP-IO-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT300-R201-UEP-IO-0,3M-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT300-R201-UEP-IO-0,3M-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT300-R201-UEP-IO-V1-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT300-R201-UEP-IO-V31-L	300	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT550-R201-2EP-IO	550	Red LED	2 x push-pull	10	Fixed cable
OMT550-R201-2EP-IO-V1	550	Red LED	2 x push-pull	10	M12 connector plug
OMT550-R201-2EP-IO-0,3M-V1	550	Red LED	2 x push-pull	10	Fixed cable with M12 plug
OMT550-R201-2EP-IO-V31	550	Red LED	2 x push-pull	10	M8 connector plug
OMT550-R201-2EP-IO-0,3M-V31	550	Red LED	2 x push-pull	10	Fixed cable with M8 plug
OMT550-R201-EP-IO-V3	550	Red LED	1 x push-pull	10	M8 connector plug
OMT550-R201-EP-IO-0,3M-V3	550	Red LED	1 x push-pull	10	Fixed cable with M8 plug
OMT550-R201-IEP-IO-V1	550	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT550-R201-IEP-IO-0,3M-V1	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT550-R201-IEP-IO-V31	550	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug

Model number	Detection range [mm]	Light type	Output type	UB (min)	Connection type
OMT550-R201-IEP-IO-0,3M-V31	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT550-R201-UEP-IO-V1	550	Red LED	1 x push-pull, 1 x analog	18	M12 connector plug
OMT550-R201-UEP-IO-0,3M-V1	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT550-R201-UEP-IO-V31	550	Red LED	1 x push-pull, 1 x analog	18	M8 connector plug
OMT550-R201-UEP-IO-0,3M-V31	550	Red LED	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT600-R201-2EP-IO-0,3M-V1-L	600	Red laser diode	2 x push-pull	10	Fixed cable with M12 plug
OMT600-R201-2EP-IO-0,3M-V31-L	600	Red laser diode	2 x push-pull	10	Fixed cable with M8 plug
OMT600-R201-2EP-IO-L	600	Red laser diode	2 x push-pull	10	Fixed cable
OMT600-R201-2EP-IO-V1-L	600	Red laser diode	2 x push-pull	10	M12 connector plug
OMT600-R201-2EP-IO-V31-L	600	Red laser diode	2 x push-pull	10	M8 connector plug
OMT600-R201-EP-IO-0,3M-V3-L	600	Red laser diode	1 x push-pull	10	Fixed cable with M8 plug
OMT600-R201-EP-IO-V3-L	600	Red laser diode	1 x push-pull	10	M8 connector plug
OMT600-R201-IEP-IO-0,3M-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT600-R201-IEP-IO-0,3M-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT600-R201-IEP-IO-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT600-R201-IEP-IO-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug
OMT600-R201-UEP-IO-0,3M-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M12 plug
OMT600-R201-UEP-IO-0,3M-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	Fixed cable with M8 plug
OMT600-R201-UEP-IO-V1-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M12 connector plug
OMT600-R201-UEP-IO-V31-L	600	Red laser diode	1 x push-pull, 1 x analog	18	M8 connector plug



Accessories	
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-R20x-Quick-Mount	Quick-mounting aid
OMH-RL31-02	Narrow mounting bracket
OMH-RL31-03	Narrow mounting bracket
OMH-RL31-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-RL31-07	Mounting bracket complete with adjustment component
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable

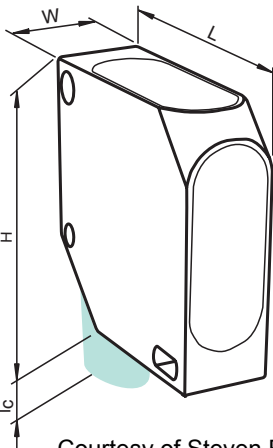
VDM18 Series



Standard Technical Data	
Function principle	Distance sensor
Light type	Red laser diode
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	50 mm
Housing width W	17 mm
Housing height H	50 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type
VDM18-100/20/122/151	100	PNP
VDM18-100/20/88/122/151	100	PNP
VDM18-100/32/105/122	100	PNP
VDM18-300/20/122/151	300	PNP
VDM18-300/20/88/122/151	300	PNP
VDM18-300/21/122/151	300	NPN
VDM18-300/32/105/122	300	PNP



Accessories	
OMH-VDM18-01	Mounting aid for series VDM18 distance measurement devices
OMH-VDM18-02	Mounting aid for series VDM18 distance measurement devices

VDM28 Series

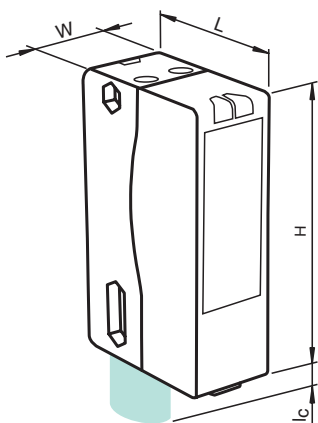


Standard Technical Data

Function principle	Distance sensor
Operating elements	Potentiometer, push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing width W	25.8 mm
Housing height H	88 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Interface	Output type	Connection type	Length L	EAC
VDM28-8-L1-IO/110/115b/122	8000	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6	
VDM28-8-L1-IO/115b/136	8000	Red laser diode	IO-Link	2 x push-pull	Fixed cable with M12 plug	54.6	
VDM28-8-L1-IO/33/110/115b/122	8000	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6	
VDM28-8-L1-IO/73c/110/122	8000	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6	
VDM28-8-L1-IO/73c/136	8000	Red laser diode	IO-Link	2 x push-pull	M12 connector plug	54.6	
VDM28-8-L1-IR-IO/73C/110/122	8000	Infrared laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6	
VDM28-8-L1/73c/136	8000	Red laser diode		2 x push-pull	M12 connector plug	54.3	
VDM28-15-L1-IO/110/115b/122	15000	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6	
VDM28-15-L1-IO/73c/110/122	15000	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6	■
VDM28-15-L1/73c/136	15000	Red laser diode		2 x push-pull	M12 connector plug	54.3	
VDM28-50-R1-IO/73c/110/122	50000	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6	
VDM28-50-R1-IO/73c/136	50000	Red laser diode		2 x push-pull	M12 connector plug	54.6	
VDM28-50-R1-IR-IO/73c/110/122	50000	Infrared laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6	
VDM28-50-R1/73c/136	50000	Red laser diode		2 x push-pull	M12 connector plug	54.6	



Accessories

IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Optical reflective film, 100 mm x 100 mm
OMH-05	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-07-01	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-K01	Mounting clamp for sensors with dovetail groove
OMH-K03	Mounting clamp for sensors with dovetail groove
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29-HW	Mounting bracket for rear wall mounting

VDM100 Series

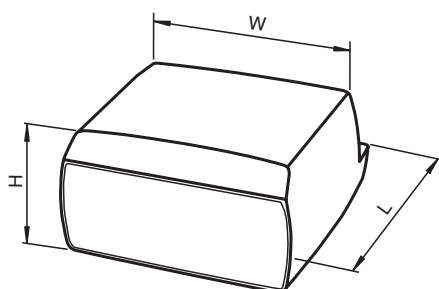


Standard Technical Data

Function principle	Distance sensor
Light type	Infrared laser diode, red laser diode
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	170 mm
Housing width W	140 mm
Housing height H	100 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Interface	EAC
VDM100-50-EIP/G2	50000	Ethernet	
VDM100-50-IBS/G2	50000	INTERBUS	
VDM100-50-P/G2	50000	PROFIBUS	
VDM100-50-P/G2/146	50000	PROFIBUS	
VDM100-50-SSI/G2	50000	RS-422, SSI	
VDM100-50-SSI/G2/146	50000	RS-422, SSI	
VDM100-150-EIP/G2	150000	Ethernet	
VDM100-150-IBS/G2	150000	INTERBUS	
VDM100-150-P/G2	150000	PROFIBUS	
VDM100-150-P/G2/146	150000	PROFIBUS	
VDM100-150-SSI/G2	150000	RS-422, SSI	
VDM100-150-SSI/G2/146	150000	RS-422, SSI	
VDM100-300-EIP/G2	300000	Ethernet	
VDM100-300-IBS/G2	300000	INTERBUS	
VDM100-300-P/G2	300000	PROFIBUS	
VDM100-300-SSI/G2	300000	RS-422, SSI	



Accessories

Funktionserdung	Functional grounding for LS610/LS611/VDM100 series
ICZ-TR-V15B	Terminator for PROFIBUS
OFR-500/500	Optical reflective film
OMH-LS610-01	Mounting bracket for optical data couplers
OMH-LS610-02	Direct mounting set consisting of four M4 threaded inserts
OMH-LS610-03	Mounting bracket with deviation mirror for optical data couplers
OMH-VDM100-01	Mounting bracket with deviation mirror for distance measurement devices
REF-VDM02	Reflector for distance measurement devices
Schutzkappe	M12 protective cap set (plug + socket) for LS610/LS611 series
V15-G-PG9	Single-ended female cordset, M12, 5-pin, field-attachable

R2100 Series



Standard Technical Data	
Function principle	2-D LIDAR sensor
Detection range	8000 mm
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	157 mm
Housing width W	81 mm
Housing height H	45 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

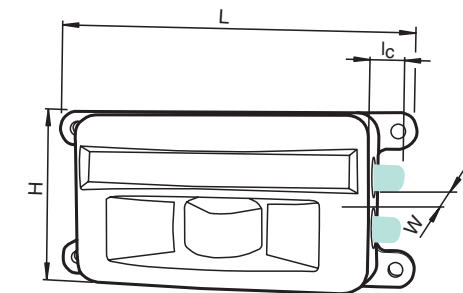
Model number	Interface
OMD8000-R2100-B16-2V15	CAN
OMD8000-R2100-R2-2V15	

Highlights

- Development of the PRT ensures reliable and clear measurement
- Long service life due to measurement using LEDs
- Ideal for mechanically demanding applications as there are no moving parts in the sensor
- 2D measurement using 11 individual rays
- Large light spots tolerate different surface textures
- Reduced energy consumption for greater cost efficiency
- High speed of response for faster processes

Brief Description

The unique development of PRT offers the user unprecedented flexibility. Impressive sensor performance and durability make the R2100 a cost-effective solution with an outstanding performance.



Accessories	
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, 4-pin, PUR cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

R2000 Series



Standard Technical Data

Function principle	2-D LIDAR sensor
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	106 mm
Housing width W	106 mm
Housing height H	116.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

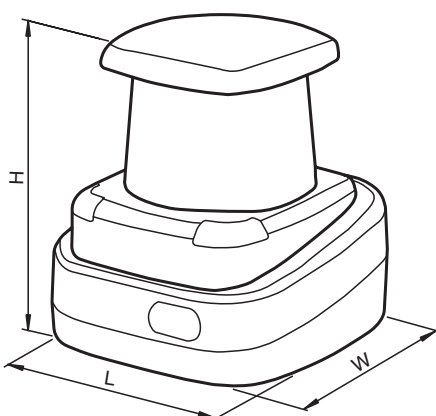
Model number	Detection range [mm]	Light type	Repeat rate [kHz]	Resolution
OBD10M-R2000-4EP-V1V17	10000	Red laser diode	54	
OMD10M-R2000-B23-V1V1D	10000	Red laser diode	250	1 mm
OMD12M-R2000-B23-V1V1D-HD-1L	12000	Infrared laser diode	84	1 mm
OBD30M-R2000-4EP-V1V17-1L	30000	Infrared laser diode	54	
OBD30M-R2000-4EP-V1V17-T-1L	30000	Infrared laser diode	54	
OMD30M-R2000-B23-V1V1D-1L	30000	Infrared laser diode	250	1 mm
OMD30M-R2000-B23-V1V1D-HD-1L	30000	Infrared laser diode	84	1 mm
OMD30M-R2000-B23-V1V1D-T-1L	30000	Infrared laser diode	250	1 mm
OMD60M-R2000-B23-V1V1D-1L	60000	Infrared laser diode	250	1 mm
OMD60M-R2000-B23-V1V1D-T-1L	60000	Infrared laser diode	250	1 mm

Highlights

- Innovative Pulse Ranging Technology (PRT) ensures reliable and clear measurements
- Sharp light spot for small-object detection and precise edge detection
- All-round visibility with 360° measuring angle
- Compact design for simple mechanical integration
- Interactive wrap-around display facilitates commissioning

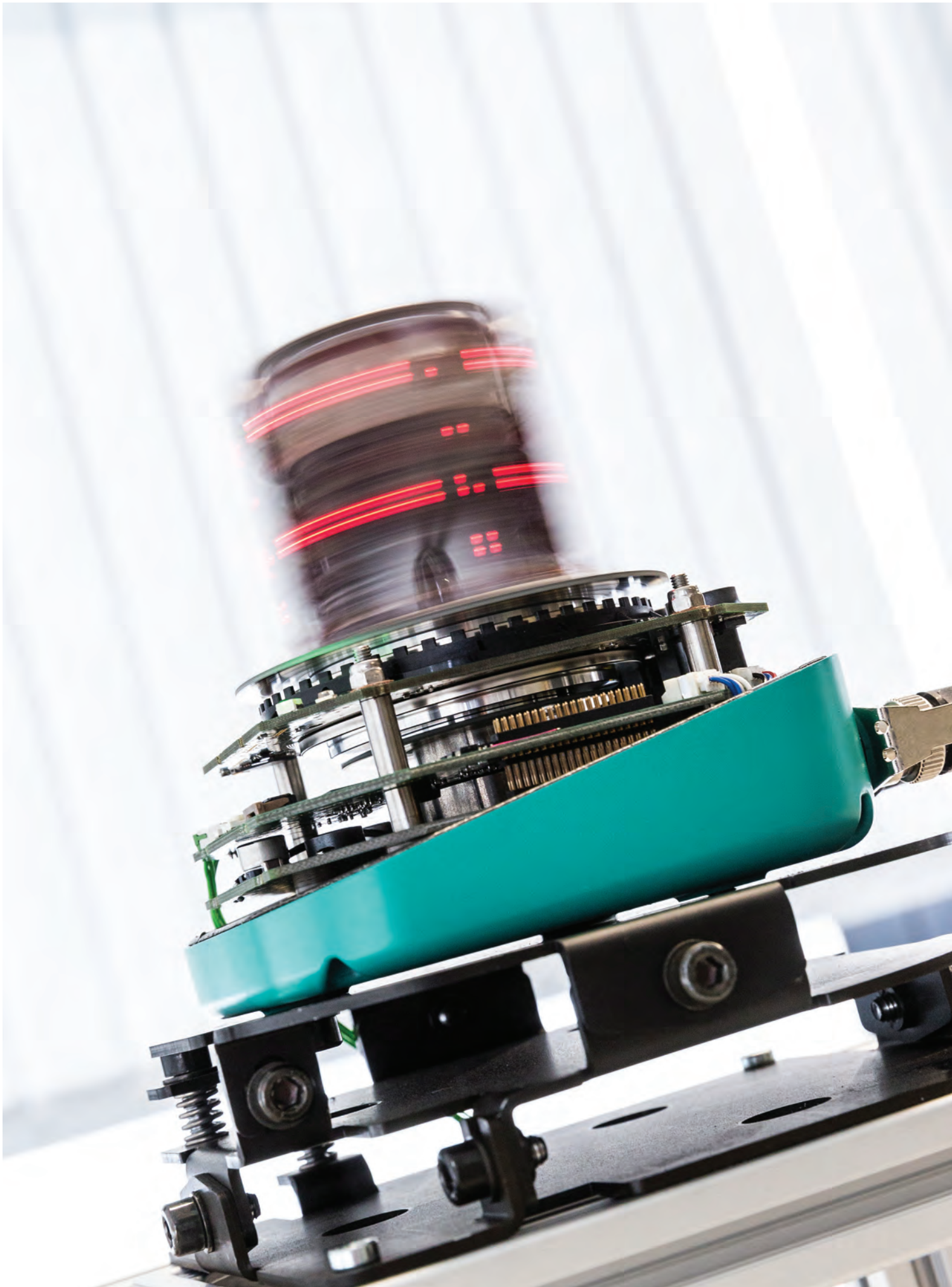
Brief Description

The R2000 series offers a wide range of unique functionalities that make object detection safer than ever before, even under the most challenging of conditions. A small light spot combined with a high angular resolution makes it possible to detect even the smallest of objects. The all-round visibility and measuring angle of 360° eliminate the need for multiple sensors. The R2000 series is very compact, for straightforward and space-saving integration into the application. The interactive display makes it possible to show text and graphic messages. Basic settings can be configured directly on the device.



Accessories

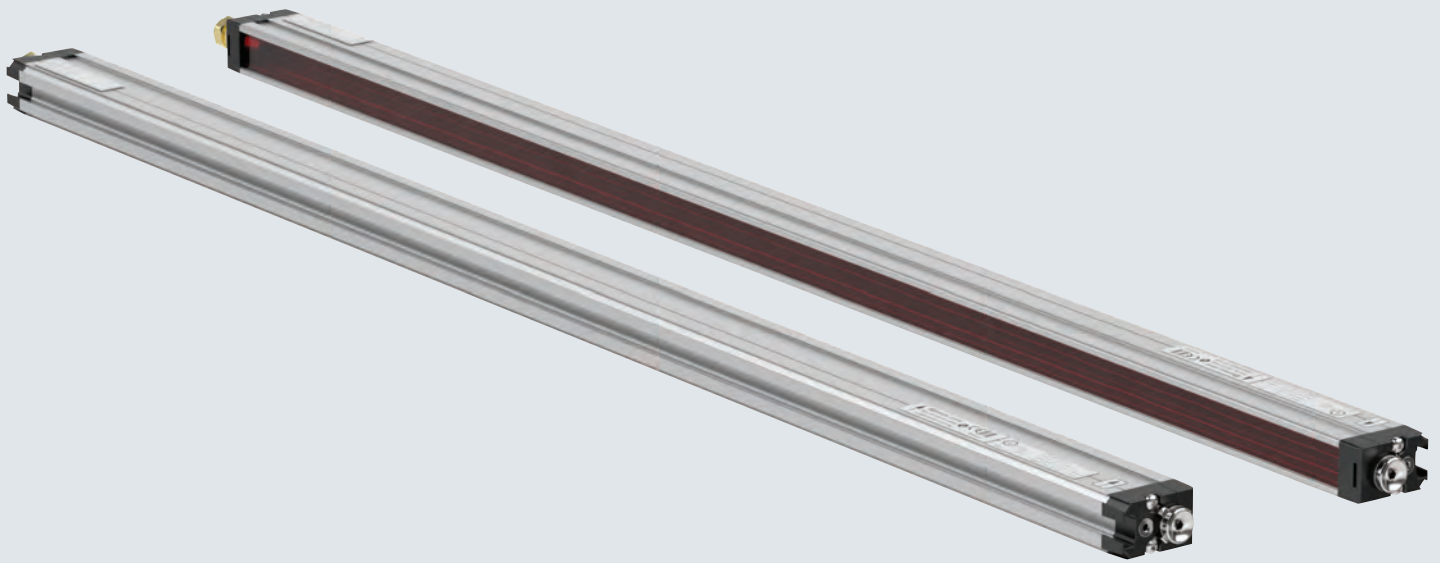
Funktionserdung	Functional grounding for LS610/LS611/VDM100 series
MH-R2000	Mounting aid for R2000 series sensors, quick-lock and adjustment device
Schutzkappe	M12 protective cap set (plug + socket) for LS610/LS611 series
V1-G-5M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, 4-pin, PUR cable
V1SD-G-2M-PUR-ABG-V45-G	Cordset, M12 to RJ-45, PUR cable, 4-pin, CAT5e
V1SD-G-5M-PUR-ABG-V45-G	Cordset, M12 to RJ-45, PUR cable, 4-pin, CAT5e
V1SD-G-ABG-PG9	Single-ended male cordset, M12, 4-pin, D-coded, shielded, field-attachable



Light Grid

Easy Integration of Object Detection

Light grids from Pepperl+Fuchs are supremely user-friendly thanks to simple plug-and-play installation and commissioning. The software-free parameterization via touch field and the free choice of 16 integrated measuring functions (LGM) make integration simpler than ever before.



Typical Applications

- Height and object detection in the packaging industry and in warehousing and material handling
- Detecting and counting irregular objects
- Positioning and object measurement
- Detects any shape of object
- Object identification

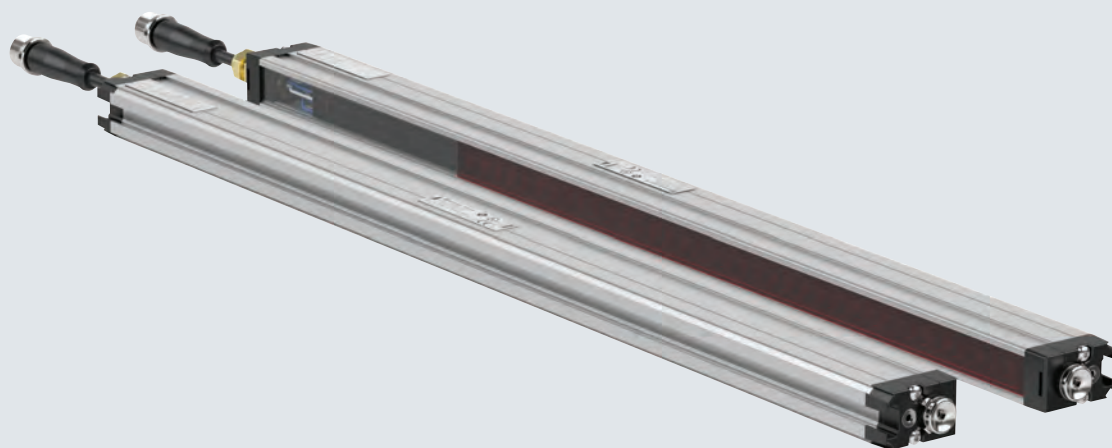
The Benefits of Selected Products at a Glance

LGS light grid:

- Simple, software-free parameterization via touchpad or external input
- Extremely fast object detection—even with three-way crossover
- IO-Link interface for servicing and process data
- Object identification through integrated object detection

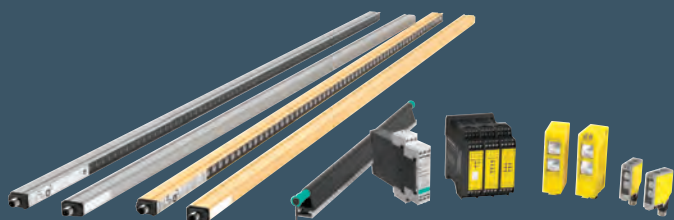
LGM measuring light grid:

- Very user-friendly thanks to 16 integrated, freely selectable measuring functions
- Convenient integration by direct measured value output in millimeters—without complex single-beam evaluation
- Simple adjustment and evaluation via IO-Link standard interface
- Especially robust due to IP67 degree of protection



Sensors for Safety Applications

Safety-certified Pepperl+Fuchs sensors offer the highest quality standards and reliability for protecting people and machines. The portfolio, which has been specifically tailored to functional safety requirements, also offers excellent investment security and outstanding plant availability.



More information is available at
www.pepperl-fuchs.com/fa-safety



Light Grids

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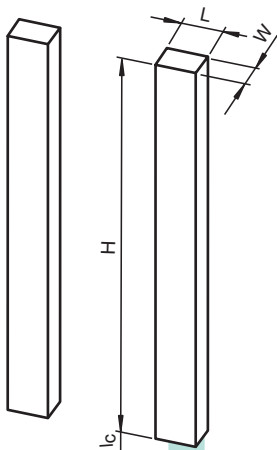
LGM Series



Standard Technical Data	
Function principle	Thru-beam sensor
Detection range	6000 mm
Light type	Infrared LED
Interface	IO-Link
Output type	1 x push-pull
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Connection type	Fixed cable with M12 plug
Housing length L	30.5 mm
Housing width W	20 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Beam spacing
LGM8	8 mm
LGM17	17 mm
LGM25	25 mm
LGM50	50 mm



Accessories	
AA SLCT-01	Profile alignment aid; simplified alignment of the SLCS and SLCT safety light curtains
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
OMH-SLCT-01	Quick-release and adjustment device
OMH-SLCT-03	Mounting bracket complete with adjustment component
OMH-SLCT-05	Mounting bracket complete with adjustment component
V1-G-BK10M-PUR-U	Single-ended female cordset, M12, 4-pin, PUR cable
V19-G-EMV-BK0,3M-PVC-V19-G	Cordset, M12 to M12, with EMC filter, 8-pin, PVC cable



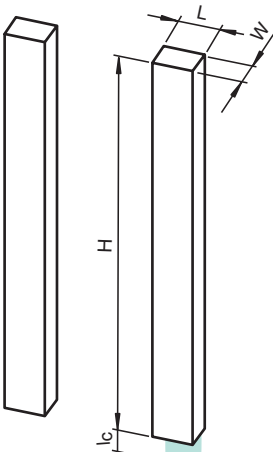
LGS Series



Standard Technical Data	
Function principle	Thru-beam sensor
Detection range	6000 mm
Light type	Infrared LED
Interface	IO-Link
Output type	1 x push-pull
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Connection type	Fixed cable with M12 plug
Housing length L	30.5 mm
Housing width W	20 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Beam spacing
LGS8	8 mm
LGS17	17 mm
LGS25	25 mm
LGS50	50 mm
LGS100	100 mm



Accessories	
AA SLCT-01	Profile alignment aid; simplified alignment of the SLCS and SLCT safety light curtains
OMH-LGS-01	Mounting aid for LGS/LGM series light grids
OMH-SLCT-03	Mounting bracket complete with adjustment component
V1-G-BK0,6M-PUR-U-V1-G-LGS25T	Cordset, LGS25 light grids to ICE modules/WIS 2, M12 to M12, PUR cable, 4-pin
V1-G-BK10M-PUR-U	Single-ended female cordset, M12, 4-pin, PUR cable
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, 4-pin, PUR cable
V19-G-BK2M-PUR-U-V1-G	Cordset, M12 to M12, 8/4-pin, PUR cable
V19-G-BK5M-PUR-IEC	Single-ended female cordset, M12, 8-pin, PUR cable
V19-G-EMV-BK0,3M-PVC-V19-G	Cordset, M12 to M12, with EMC filter, 8-pin, PVC cable

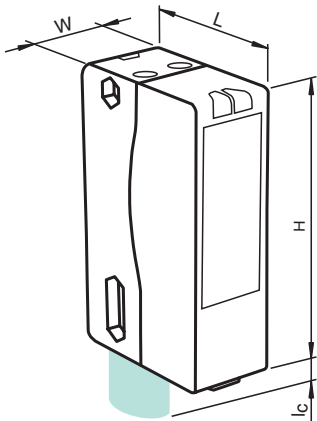
RLG28 Series



Standard Technical Data	
Function principle	Retroreflective sensor with polarization filter
Light type	Red LED
Voltage type	DC
Operating voltage (min)	12 V
Operating voltage (max)	30 V
Housing length L	54.3 mm
Housing width W	25.8 mm
Housing height H	88 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Operating elements	Output type	Connection type
RLG28-55-7226	600	Push-button	2 x push-pull	Fixed cable with M12 plug
RLG28-55-7462	4000	Potentiometer, push-button	1 x push-pull	M12 connector plug
RLG28-55/115b/136	4000	Push-button	2 x push-pull	Fixed cable with M12 plug
RLG28-55/40a/115b/136	4000	Potentiometer, push-button	2 x push-pull	Fixed cable with M12 plug
RLG28-55/40a/73c/136	4000	Potentiometer, push-button	2 x push-pull	M12 connector plug



Accessories	
OMH-21	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
REF-A80	Rectangular reflector, 80 mm x 50 mm, self-adhesive
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-G-2M-PVC	Single-ended female cordset, M12, 4-pin, PVC cable
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable

Special Photoelectric Sensors

Optimized for Specific Applications

In addition to standard applications, the Pepperl+Fuchs portfolio also offers highly specialized sensors. These are designed for specific applications, so you can benefit from an optimal solution in the usual high quality.



Fiber Optic Sensors

Typical Applications

- Detection of objects in very harsh ambient conditions, such as high temperatures, mechanical vibrations or contact with highly corrosive cleaning agents
- Object detection in particularly cramped mounting conditions

Your Benefits at a Glance

- Reliable operation under all ambient conditions
- Simple commissioning: choice of teach-in or potentiometer
- IO-Link interface available for user-friendly parameterization (MLV41)
- Fiber optic sensors with particularly high power (High Power versions)

Technical Features

- Degree of protection of up to IP67
- Suitable for plastic and glass fiber optics
- Narrow designs available for DIN rail mounting

Print Mark Contrast Sensor

Typical Applications

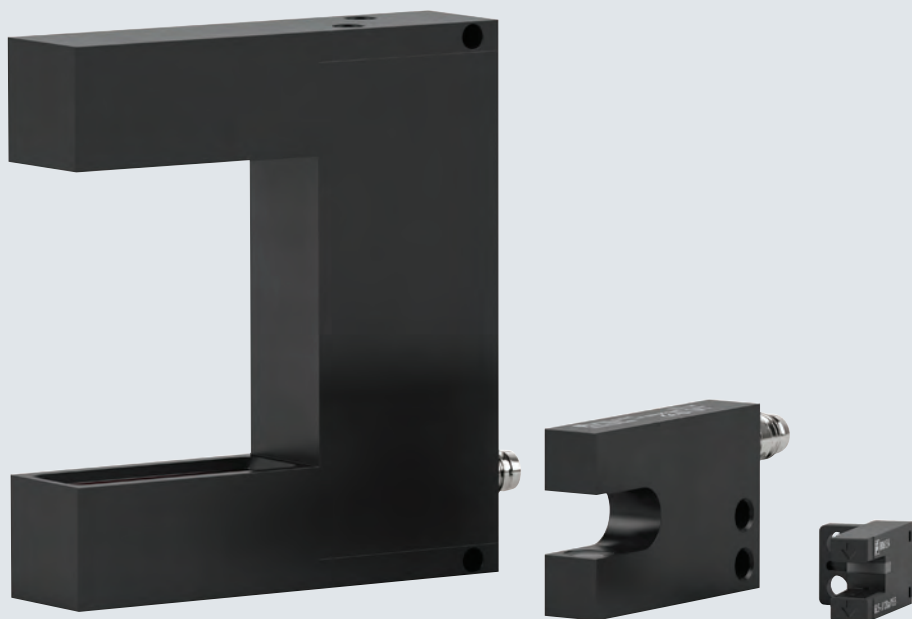
- Detection of contrast marks for controlling printing, labeling, or packaging plants
- Applications in the printing, packaging, and food industries

Your Benefits at a Glance

- Reliable detection of even weak contrast marks by active three-range method with three emitters (R, G, B) or separate teach-in for mark and background
- High switching point accuracy thanks to light spot that is aligned to contrast marks
- Suitable for extremely fast scanning processes due to short response time

Technical Features

- IO-Link interface available for service and process data
- Contrast sensors available in standard industrial housings
- Static or dynamic teach-in



Slot and Slot Grid Sensors

Typical Applications

- Presence monitoring on feed devices
- Ejection control of small parts
- Counting of bulk material on vibration conveyors
- Small part detection

Your Benefits at a Glance

- Fast mounting through adjustment of the optical axes at the factory
- Easier mounting with a single connection
- Flexible product choice thanks to a variety of designs
- High switch point accuracy for the most precise positioning tasks

Technical Features

- Miniature designs available—optimized for small part detection to 0.8 mm
- Slot widths up to 220 mm
- Rugged metal versions available
- Degree of protection of up to IP67

Special Photoelectric Sensors

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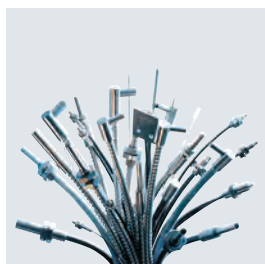
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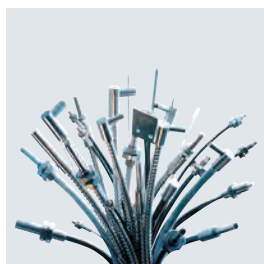
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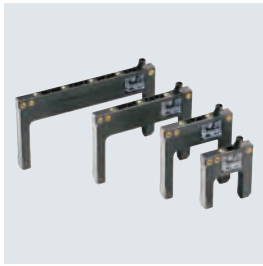
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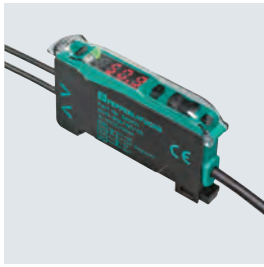
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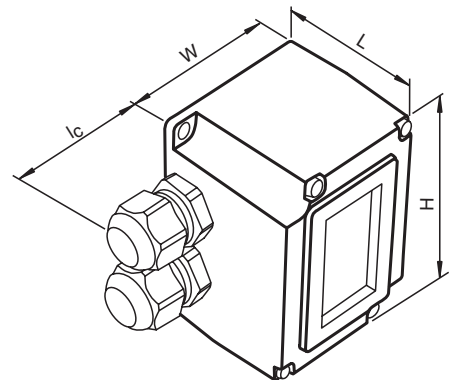


Standard Technical Data	
Function principle	Thru-beam sensor
Light type	Infrared LED
Interface	8-bit parallel
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Connection type	Terminal compartment
Housing length L	76 mm
Housing width W	53 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	UB (max)
DAD15-8P	1500	60
DAD15-8P-R-2388	1500	60
DAD15-8P-NPN	1500	30
DAD15-8P/35	2500	60
DAD15-8P-NPN/35	2500	30

Accessories	
OMH-DAD10	Mounting bracket





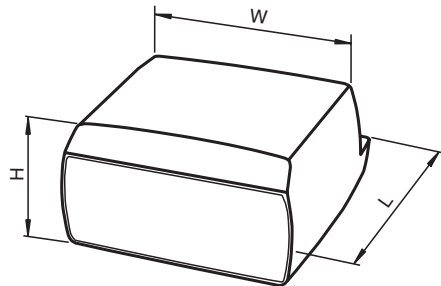
LS610 Series



Standard Technical Data	
Function principle	Thru-beam sensor
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Interface	Operating elements
LS610-DA-P/F1	120000	PROFIBUS	Push-button
LS610-DA-P/F2	120000	PROFIBUS	Push-button
LS610-DA-P/F1/35	240000	PROFIBUS	Push-button
LS610-DA-P/F2/35	240000	PROFIBUS	Push-button
LS610-DA-P/F1/146	120000	PROFIBUS	Push-button
LS610-DA-P/F2/146	120000	PROFIBUS	Push-button
LS610-DA-IBS/F1	120000	RS-422	
LS610-DA-IBS/F2	120000	RS-422	
LS610-DA-IBS/F1/35	240000	RS-422	
LS610-DA-IBS/F2/35	240000	RS-422	
LS610-DA-IBS/F1/146	120000	RS-422	
LS610-DA-IBS/F2/146	120000	RS-422	
LS610-DA-IBS/F1/35/146	240000	RS-422	
LS610-DA-IBS/F2/35/146	240000	RS-422	



Accessories	
ICZ-TR-V15B	Terminator for PROFIBUS
OMH-LS610-01	Mounting bracket for optical data couplers
OMH-LS610-02	Direct mounting set consisting of four M4 threaded inserts
OMH-LS610-03	Mounting bracket with deviation mirror for optical data couplers
OMH-LS610-32	Mounting bracket for optical data couplers and distance measurement devices
V15-G-PG9	Single-ended female cordset, M12, 5-pin, field-attachable

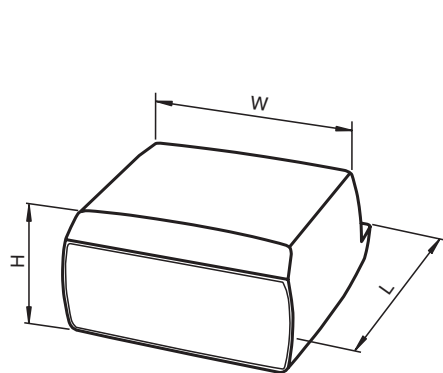
LS682 Series



Standard Technical Data	
Function principle	Thru-beam sensor
Interface	Ethernet
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type
LS682-DA-EN/F1	150000	Infrared laser diode
LS682-DA-EN/F2	150000	Red laser diode
LS682-DA-EN/F1/146	150000	Infrared laser diode
LS682-DA-EN/F2/146	150000	Red laser diode
LS682-DA-EN/F1/35	300000	Infrared laser diode
LS682-DA-EN/F2/35	300000	Red laser diode
LS682-DA-EN/F1/35/146	300000	Infrared laser diode
LS682-DA-EN/F2/35/146	300000	Red laser diode



Accessories	
OMH-LS610-01	Mounting bracket for optical data couplers
OMH-LS610-02	Direct mounting set consisting of four M4 threaded inserts
OMH-LS610-03	Mounting bracket with deviation mirror for optical data couplers

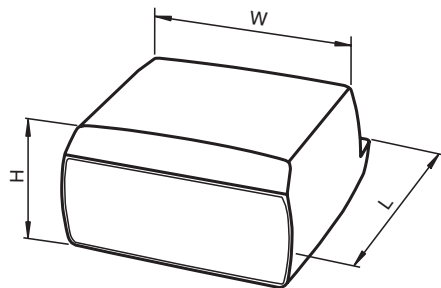
LS684 Series



Standard Technical Data	
Function principle	Thru-beam sensor
Interface	Ethernet
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type
LS684-DA-EN/F1	150000	Infrared laser diode
LS684-DA-EN/F2	150000	Red laser diode
LS684-DA-EN/F2/146	150000	Red laser diode
LS684-DA-EN/F1/146	150000	Infrared laser diode
LS684-DA-EN/F1/35	300000	Infrared laser diode
LS684-DA-EN/F2/35	300000	Red laser diode
LS684-DA-EN/F1/35/146	300000	Infrared laser diode
LS684-DA-EN/F2/35/146	300000	Red laser diode



Accessories	
OMH-LS610-01	Mounting bracket for optical data couplers
OMH-LS610-02	Direct mounting set consisting of four M4 threaded inserts
OMH-LS610-03	Mounting bracket with deviation mirror for optical data couplers

GL2/GL3/GL5 Series



Standard Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	5 V

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type	UB (max)	Connection type	Length L	Width W	Height H	EAC	UL
GL2-P/153	1.8	NPN	30	Fixed cable	9.1	6.3	15.2		
GL3-L/153	3.1	NPN	30	Fixed cable	18.4	6.3	15.9		
GL3-P/153	3.1	NPN	30	Fixed cable	15.9	6.3	18.4		
GL3-T/153	3.1	NPN	30	Fixed cable	15.9	23.6	12.9		
GL3-U/153	3.1	NPN	30	Fixed cable	24.7	6.3	15.9		
GL5-F/28a/115	5	NPN	24	Fixed cable	26.2	13.2	13.4		■
GL5-F/43a/115	5	PNP	24	Fixed cable	26.2	13.2	13.4		■
GL5-F/43a/155	5	PNP	24	Plug connector	27.2	13.2	13.4		■
GL5-J/28a/155	5	NPN	24	Plug connector	27.2	13.2	13.4		■
GL5-J/43a/115	5	PNP	24	Fixed cable	26.2	13.2	13.4		■
GL5-J/43a/155	5	PNP	24	Plug connector	27.2	13.2	13.4		■
GL5-L/28a/115	5	NPN	24	Fixed cable	15.5	18.5	26		■
GL5-L/28a/155	5	NPN	24	Plug connector	15.5	19.5	26		■
GL5-L/43a/115	5	PNP	24	Fixed cable	15.5	18.5	26		■
GL5-L/43a/115-5M	5	PNP	24	Fixed cable	15.5	18.5	26		■
GL5-L/43a/115a	5	PNP	24	Fixed cable with M8 plug	15.5	18.5	26		■
GL5-L/43a/155	5	PNP	24	Plug connector	15.5	19.5	26	■	■
GL5-R/28a/115	5	NPN	24	Fixed cable	26.2	13.2	13.4		■
GL5-R/43a/115	5	PNP	24	Fixed cable	26.2	13.2	13.4		■
GL5-R/43a/115-5M	5	PNP	24	Fixed cable	26.2	13.2	13.4		■
GL5-R/43a/155	5	PNP	24	Plug connector	27.2	13.2	13.4		■
GL5-T/28a/115	5	NPN	24	Fixed cable	26.2	26	13.4		■
GL5-T/28a/155	5	NPN	24	Plug connector	27.2	26	13.4		■
GL5-T/43a/115	5	PNP	24	Fixed cable	26.2	26	13.4		■
GL5-T/43a/155	5	PNP	24	Plug connector	27.2	26	13.4		■
GL5-U/28a/115	5	NPN	24	Fixed cable	26.2	7	25.4		■
GL5-U/28a/155	5	NPN	24	Plug connector	27.2	7	25.4		■
GL5-U/43a/115	5	PNP	24	Fixed cable	26.2	7	25.4		■
GL5-U/43a/155	5	PNP	24	Plug connector	27.2	7	25.4		■
GL5-Y/25/46a/115e	5	PNP	24	Fixed cable with JST plug	15.5	25.5	13.4		■
GL5-Y/28a/115	5	NPN	24	Fixed cable	15.5	25.5	13.4		■
GL5-Y/28a/155	5	NPN	24	Plug connector	15.5	26.6	13.4		■
GL5-Y/43a/115	5	PNP	24	Fixed cable	15.5	25.5	13.4		■
GL5-Y/43a/115-5M	5	PNP	24	Fixed cable	15.5	25.5	13.4		■
GL5-Y/43a/155	5	PNP	24	Plug connector	15.5	26.6	13.4		■

GL Series

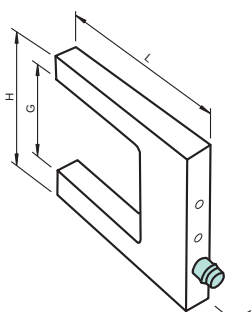


Standard Technical Data

Function principle	Thru-beam sensor
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M8 connector plug

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type	UL
GL10-IR/32/40a/98a	10	Infrared LED	PNP	■
GL10-RT/30/40a/98a	10	Red LED	NPN	■
GL10-RT/32/40a/98a	10	Red LED	PNP	■
GL20-IR/32/40a/98a	20	Infrared LED	PNP	■
GL20-LAS/32/40a/98a	20	Red laser diode	PNP	
GL20-RT/30/40a/98a	20	Red LED	NPN	■
GL20-RT/32/40a/98a	20	Red LED	PNP	■
GL30-IR/32/40a/98a	30	Infrared LED	PNP	■
GL30-LAS/32/40a/98a	30	Red laser diode	PNP	
GL30-RT/30/40a/98a	30	Red LED	NPN	■
GL30-RT/32/40a/95	30	Red LED	PNP	■
GL30-RT/32/40a/98a	30	Red LED	PNP	■
GL40-IR/32/40a/98a	40	Infrared LED	PNP	■
GL40-RT/32/40a/98a	40	Red LED	PNP	■
GL50-IR/32/40a/98a	50	Infrared LED	PNP	■
GL50-LAS/32/40a/98a	50	Red laser diode	PNP	
GL50-RT/30/40a/98a	50	Red LED	NPN	■
GL50-RT/32/40a/98a	50	Red LED	PNP	■
GL80-IR/32/40a/98a	80	Infrared LED	PNP	■
GL80-LAS/32/40a/98a	80	Red laser diode	PNP	
GL80-RT/30/40a/98a	80	Red LED	NPN	■
GL80-RT/32/40a/98a	80	Red LED	PNP	■
GL120-LAS/32/40a/98a	120	Red laser diode	PNP	
GL121-IR/32/40a/98a	121	Infrared LED	PNP	■
GL121-RT/30/40a/98a	121	Red LED	NPN	■
GL121-RT/32/40a/98a	121	Red LED	PNP	■
GL220-IR/32/40a/98a	220	Infrared LED	PNP	■
GL220-LAS/32/40a/98a	220	Red laser diode	PNP	
GL220-RT/30/40a/98a	220	Red LED	NPN	■
GL220-RT/32/40a/98a	220	Red LED	PNP	■





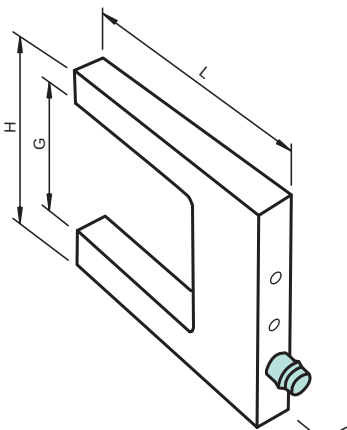
GLP Series



Standard Technical Data	
Function principle	Thru-beam sensor
Light type	Red LED
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M8 connector plug
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type
GLP30-RT/40b/102/123/143	30	NPN
GLP30-RT/40b/102/156	30	NPN
GLP30-RT/40b/103/123/143	30	PNP
GLP30-RT/40b/103/156	30	PNP
GLP50-RT/40b/102/123/143	50	NPN
GLP50-RT/40b/102/156	50	NPN
GLP50-RT/40b/103/123/143	50	PNP
GLP50-RT/40b/103/156	50	PNP
GLP80-RT/40b/102/123/143	80	NPN
GLP80-RT/40b/102/156	80	NPN
GLP80-RT/40b/103/123/143	80	PNP
GLP80-RT/40b/103/156	80	PNP
GLP120-RT/40b/102/123/143	120	NPN
GLP120-RT/40b/102/156	120	NPN
GLP120-RT/40b/103/123/143	120	PNP
GLP120-RT/40b/103/156	120	PNP



Accessories	
OMH-K03	Mounting clamp for sensors with dovetail groove
V3-GM-BK2M-PUR-U	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable
V3-WM-BK2M-PUR-U	Single-ended female cordset, M8, 3-pin, PUR cable
V31-GM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-GM-BK2M-PUR-U	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-2M-PUR	Single-ended female cordset, M8, 4-pin, PUR cable
V31-WM-BK2M-PUR-U	Single-ended female cordset, M8, 4-pin, PUR cable



GL-ES Series



Standard Technical Data	
Function principle	Thru-beam sensor
Detection range	24 mm
Light type	Infrared LED
Output type	PNP
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	Fixed cable

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	
GL-ES-IR/115/120	



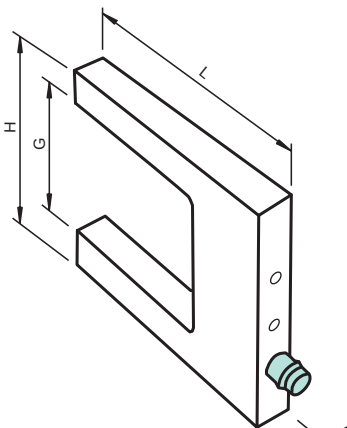
RAL Series



Standard Technical Data	
Function principle	Thru-beam sensor
Light type	Infrared LED
Output type	PNP
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	19.2 V
Operating voltage (max)	28.8 V
Connection type	M8 connector plug
Housing width W	20 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Length L	Height H
RAL50-IR/32/98	50	81	90
RAL70-IR/32/98	70	105	110
RAL100-IR/32/98	100	135	140
RAL150-IR/32/98	150	185	190



Accessories	
V3-WM-2M-PUR	Single-ended female cordset, M8, 3-pin, PUR cable

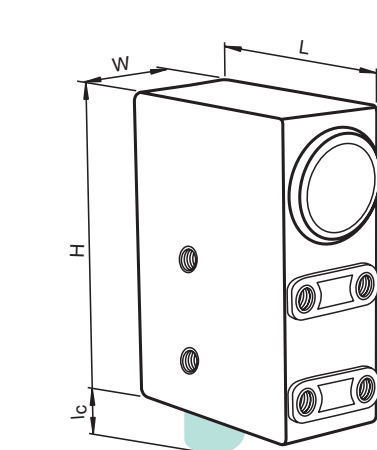
DK10 Series



Standard Technical Data	
Light type	Red laser diode
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing height H	85.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Output type
DK10-LAS/9S50/76a/110/124	300	1 x push-pull
DK10-LAS/49	300	PNP/NPN
DK10-LAS/76a/110/124	300	1 x push-pull
DK10-LAS/76a/79b/110/124	300	1 x push-pull
DK10-LAS/9S20	300	1 x push-pull
DK10-LAS/35/79b	800	1 x push-pull
DK10-LAS/35/49	800	PNP/NPN
DK10-LAS-54/76/110/124	10000	1 x push-pull



Accessories	
OMH-DK	Right-angled mounting bracket
OMH-DK-1	Flat mounting bracket
V15-G-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable
V15-W-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable

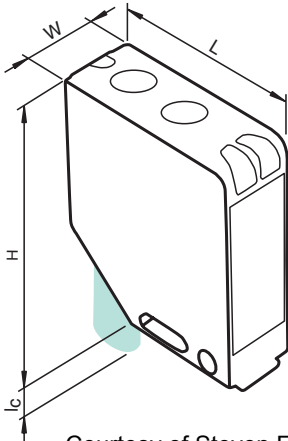
DK12 Series



Standard Technical Data	
Detection range	11 mm
Light type	Green/red/blue LED
Output type	2 x push-pull
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	15 mm
Housing width W	41.5 mm
Housing height H	49 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Interface
DK12-11-IO/92/136	IO-Link
DK12-11-IO/A/92/136	IO-Link
DK12-11/124/136	
DK12-11/A/124/136	



Accessories	
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

DK20 Series

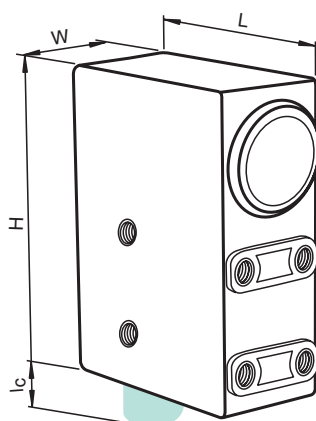


Standard Technical Data

Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing height H	85.6 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Output type
DK20/9S50	9.5	Green/red/blue LED	1 x push-pull
DK20/49	9.5	Green/red/blue LED	PNP/NPN
DK20-9,5/B/110/124	9.5	Green/red/blue LED	1 x push-pull
DK20-9,5/A/110/124	9.5	Green/red/blue LED	1 x push-pull
DK20-9,5/9S20/110/124	9.5	Green/red/blue LED	1 x push-pull
DK20-9,5/79B/110/124	9.5	Green/red/blue LED	1 x push-pull
DK20-9,5/110/124	9.5	Green/red/blue LED	1 x push-pull
DK20-25/110/124	25	Green/red/blue LED	1 x push-pull
DK20-25/A/110/124	25	Green/red/blue LED	1 x push-pull
DK20/35A/9S20	25	Green/red/blue LED	1 x push-pull
DK20/35B	50	Red LED	1 x push-pull
DK20/35B/79B	50	Red LED	1 x push-pull



Accessories

OMH-DK	Right-angled mounting bracket
OMH-DK-1	Flat mounting bracket
V15-G-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable
V15-W-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable



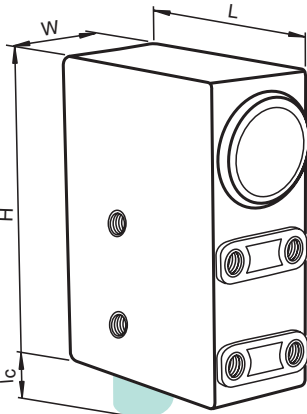
DK21 Series



Standard Technical Data	
Light type	Green/red/blue LED
Output type	1 x push-pull
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing height H	85.6 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]
DK21-9,5/A/110/124	9.5
DK21-9,5/110/124	9.5
DK21-9,5/9S50/110/124	9.5
DK21-25/110/124	25



Accessories	
OMH-DK	Right-angled mounting bracket
OMH-DK-1	Flat mounting bracket
V15-W-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable



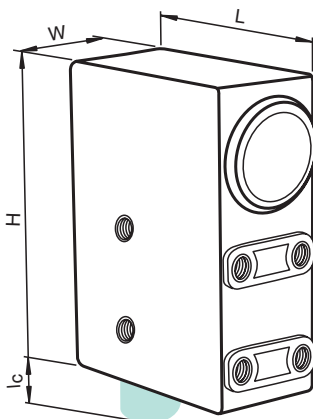
DK34 Series



Standard Technical Data	
Detection range	9.5 mm
Light type	Green/red/blue LED
Output type	1 x push-pull
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing height H	85.6 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	
DK34-9,5/110/124	



Accessories	
V15-W-5M-PVC	Single-ended female cordset, M12, 5-pin, PVC cable

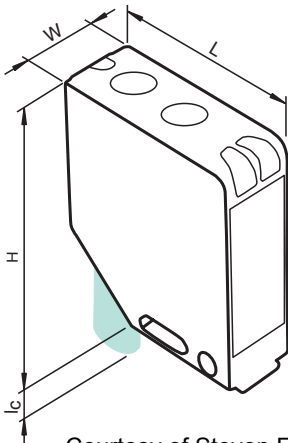
DF12 Series



Standard Technical Data	
Detection range	11 mm
Light type	Green/red/blue LED
Output type	3 x push-pull
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	15 mm
Housing width W	41.5 mm
Housing height H	49 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Timer function
DF12-11-3K/145/151	
DF12-11-3K/9s20/145/151	Impulse-type switch-off delay time relay, 20 ms



Accessories	
V19-G-2M-PUR-ABG	Single-ended female cordset, M12, 8-pin, shielded, PUR cable



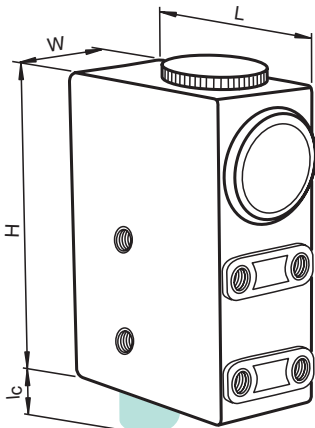
DF20 Series



Standard Technical Data	
Light type	Green/red/blue LED
Output type	PNP/NPN
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing height H	85.5 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]
DF20/B/49/124	9.5
DF20/49/124	9.5
DF20/9S20/49/124	9.5
DF20/35A/49/124	25



Accessories	
V15-G-2M-PUR	Single-ended female cordset, M12, 5-pin, PUR cable



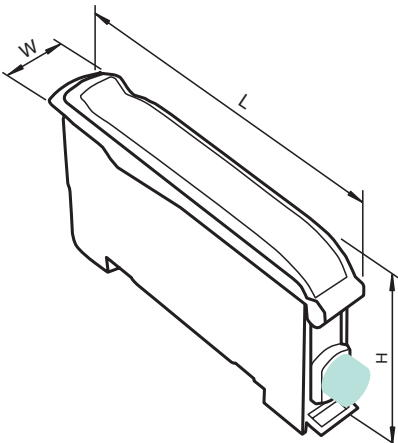
SU18 Series



Standard Technical Data	
Light type	Red LED
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	62.3 mm
Housing width W	9 mm
Housing height H	34.5 mm
UL	■

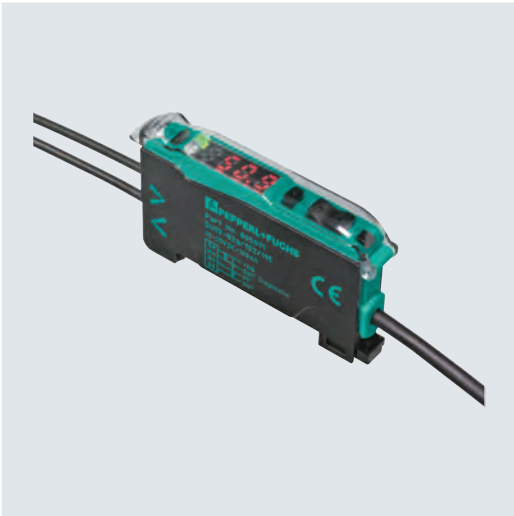
For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Operating elements	Output type	Connection type
SU18-16/40a/102/115/126a	150	Potentiometer	NPN	Fixed cable
SU18-16/40a/102/115a/126a	150	Potentiometer	NPN	Fixed cable with M8 plug
SU18-16/40a/110/115/126a	150	Potentiometer	1 x push-pull	Fixed cable
SU18-16/40a/110/115a	150	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-16/40a/110/115a/126a	150	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-16/40a/115a/120	150	Potentiometer	PNP	Fixed cable with M8 plug
SU18-40a/102/115/123	150	Push-button	NPN	Fixed cable
SU18-40a/102/115/126a	150	Push-button	NPN	Fixed cable
SU18-40a/102/115a/123	150	Push-button	NPN	Fixed cable with M8 plug
SU18-40a/110/115/123	150	Push-button	1 x push-pull	Fixed cable
SU18-40a/110/115/126a	150	Push-button	1 x push-pull	Fixed cable
SU18-40a/110/115a	150	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18-40a/110/115a/123	150	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18-40a/110/115a/126a	150	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18-16/35/40a/102/115/126a	460	Potentiometer	NPN	Fixed cable
SU18-16/35/40a/110/115/126a	460	Potentiometer	1 x push-pull	Fixed cable
SU18-16/35/40a/110/115a	460	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-16/35/40a/110/115a/126a	460	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-35/40a/102/115/123	460	Push-button	NPN	Fixed cable
SU18-35/40a/102/115/126a	460	Push-button	NPN	Fixed cable
SU18-35/40a/110/115/123	460	Push-button	1 x push-pull	Fixed cable
SU18-35/40a/110/115/126a	460	Push-button	1 x push-pull	Fixed cable
SU18-35/40a/110/115a/126a	460	Push-button	1 x push-pull	Fixed cable with M8 plug



Accessories
Suitable optical fibers can be found in the relevant product datasheet

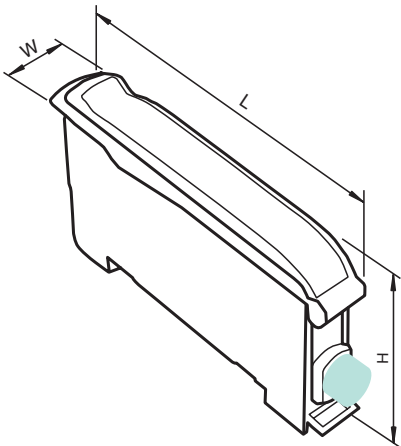
SU19 Series



Standard Technical Data	
Detection range	150 mm
Light type	Red LED
Output type	1 x push-pull
Operating elements	Push-button
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	62.3 mm
Housing width W	9 mm
Housing height H	34.5 mm
UL	

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Connection type
SU19.1/110/115	Fixed cable
SU19.1/110/115a	Fixed cable with M8 plug
SU19/110/115/123	Fixed cable
SU19/110/115a/126a	Fixed cable with M8 plug



Accessories
Suitable optical fibers can be found in the relevant product datasheet

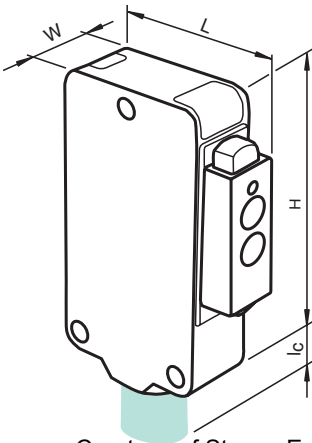
MLV41-LL Series



Standard Technical Data	
Output type	2 x push-pull
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	13.6 mm
Housing width W	31 mm
Housing height H	56.5 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Light type	Interface	Connection type
MLV41-LL-RT/95/136	36	Red LED		M8 connector plug
MLV41-LL-RT-IO/115/136	36	Red LED	IO-Link	Fixed cable
MLV41-LL-RT-IO/92/136	36	Red LED	IO-Link	M12 connector plug
MLV41-LL-RT-IO/95/136	36	Red LED	IO-Link	M8 connector plug
MLV41-LL-RT/115/136	36	Red LED		Fixed cable
MLV41-LL-RT/92/136	36	Red LED		M12 connector plug
MLV41-LL-IR-IO/115/136	55	Infrared LED	IO-Link	Fixed cable
MLV41-LL-IR-IO/92/136	55	Infrared LED	IO-Link	M12 connector plug
MLV41-LL-IR-IO/95/136	55	Infrared LED	IO-Link	M8 connector plug
MLV41-LL-IR/115/136	55	Infrared LED		Fixed cable
MLV41-LL-IR/92/136	55	Infrared LED		M12 connector plug
MLV41-LL-IR/95/136	55	Infrared LED		M8 connector plug
MLV41-LL-IR/70/136	55	Infrared LED		M9 connector plug



Accessories	
Suitable optical fibers can be found in the relevant product datasheet	
V1-G-2M-PUR	Single-ended female cordset
V1-W-2M-PUR	Single-ended female cordset

VL18-LL Series

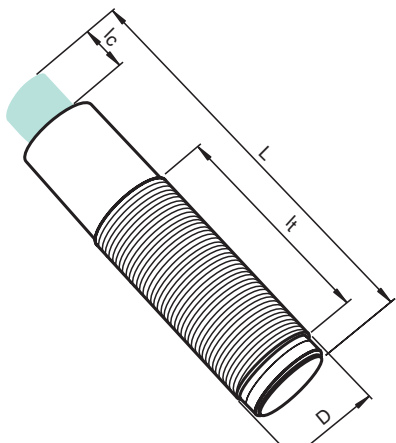


Standard Technical Data	
Detection range	70 mm
Light type	Red LED
Operating elements	Potentiometer
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	65 mm
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

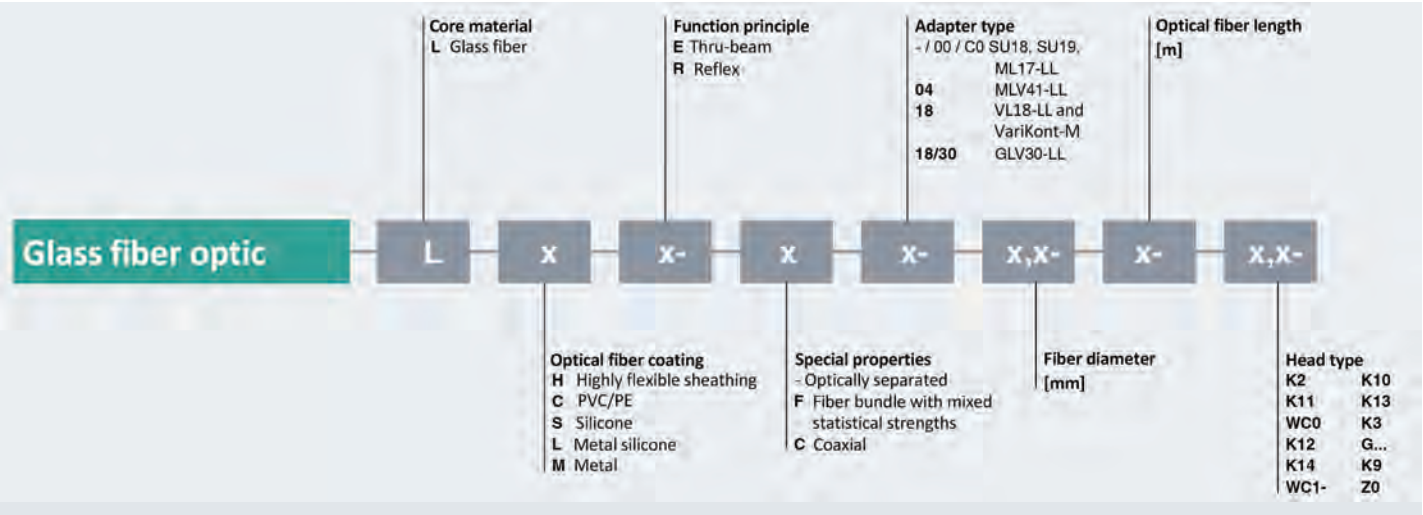
Model number	Output type
VL18LL-M/30/40a/118	NPN
VL18LL-M/32/40a/118	PNP
VL18LL-M/40a/118/128	1 x push-pull

Accessories	
Suitable optical fibers can be found in the relevant product datasheet	
V1-G-2M-PUR	Single-ended female cordset





Glass Fiber Optic



For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

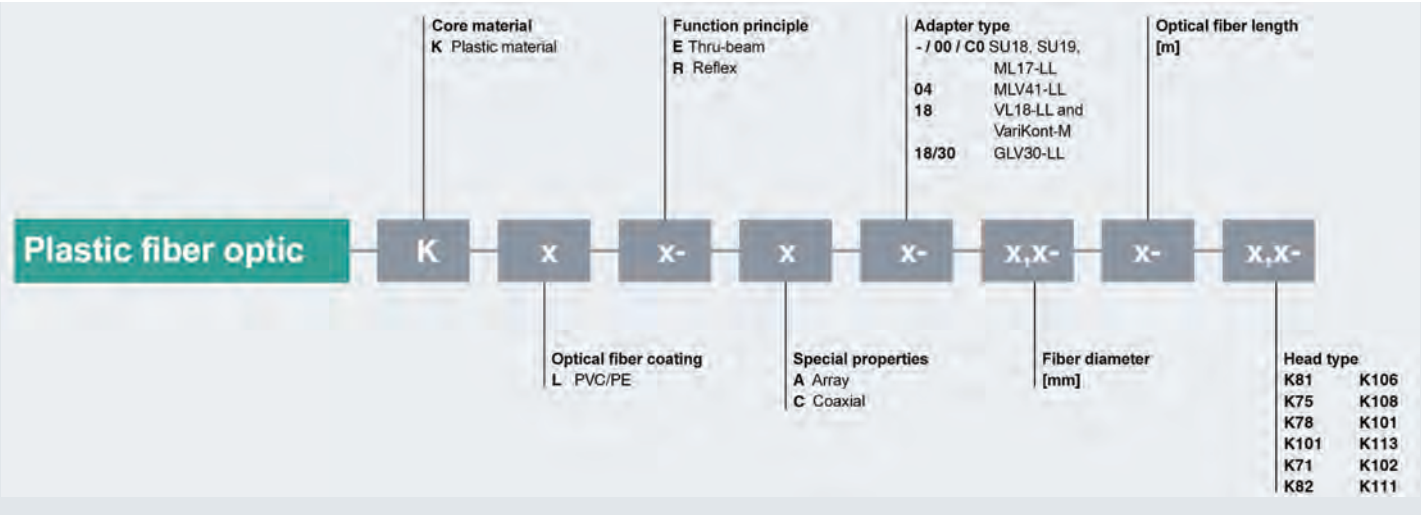
Brief Description

Glass fiber optics are made up of multiple individual fibers with a diameter of approximately 50 µm each. Stainless steel, PVC, metal and silicone, or silicone sheathing can be selected depending on the application. The low optical attenuation of glass fibers compared to plastic fibers enables greater sensing and detection ranges. The rugged mechanical design of the stainless steel sheathing means the cables can be used at temperatures of up to 200 °C.

Accessories	
K-LA01	Collimating lens, up to four times higher detection range, M2.6 thread
K-LA02	Collimating lens, side optical face, M2.6 thread
OMH-LL-M6	Mounting bracket for optical fiber, M6 thread



Plastic Fiber Optic



For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Brief Description

Plastic fiber optics are made up of PVC-sheathed fibers. The fiber optic material is lightweight and very flexible, so it can be used on machines with fast-moving parts. One great advantage is that the fibers can be cut to length individually.

Accessories	
K-LA02	Collimating lens, side optical face, M2.6 thread
K-LA03	Focusing lens, light spot size approx. 0.5 mm at 8 mm, M3 thread
K-LA06	Collimating lens, up to eight times higher detection range, M4 thread
KM4-0,5	Metal protection for plastic fiber optic M4 x 0.5 m.
KM4-1,0	Metal protection for plastic fiber optic M4 x 1.0 m.
KM6-0,5	Metal protection for plastic fiber optic M6 x 0.5 m.
KM6-1,0	Metal protection for plastic fiber optic M6 x 1.0 m.
OMH-LL-M6	Mounting bracket for optical fiber, M6 thread

Sensors for Safety Applications

Application-Oriented with Uncompromising Safety

Safety-certified Pepperl+Fuchs sensors offer the highest quality standards and reliability for protecting people and machines. The portfolio, which has been specifically tailored to functional safety requirements, also offers excellent investment security and outstanding plant availability.

Optimal Protection for over 30 Years

Our optimized product portfolio—which is application oriented and focused on the essentials—is based on more than three decades of experience, a high level of application expertise, and continuous dialog with our customers.

Perfectly coordinated to meet the requirements of automated processes, Pepperl+Fuchs safety sensors always combine safety and productivity. Fast and easy commissioning across the entire portfolio allows for particularly cost-efficient solutions. At the same time, the high reliability of the sensors not only ensures that the operator is optimally protected, but also ensures that processes continue uninterrupted and therefore leads to increased plant availability.

Traditional Connection Technology for Outstanding Investment Security

In the field of safety engineering, Pepperl+Fuchs has consistently focused on solutions with traditional connection technology. This reduces not only potential sources of fault, but also provides for a future-proof supply of spare parts and thus a high level of investment and future security.

Furthermore, Pepperl+Fuchs safety sensors meet the highest safety requirements, up to and including PL e, Cat. 4 and SIL 3. With approvals such as cULus, they are also certified for international use.

Safety Sensors from Pepperl+Fuchs



Single-beam safety light barriers



Multi-beam safety light barriers



Safety control units

Sensors for Safety Applications

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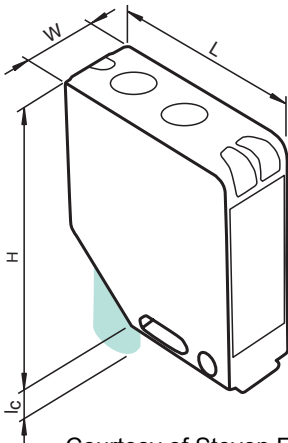
SLA12 Series



Standard Technical Data	
Function principle	Thru-beam sensor
Light type	Red laser diode
SIL	3
Connection type	M12 connector plug
Housing length L	41.5 mm
Housing width W	15 mm
Housing height H	49 mm
TÜV	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]
SLA12-LAS-T/124	12000
SLA12-LAS-T/35/124	30000



Accessories	
OMH-K01	Mounting clamp for sensors with dovetail groove
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
SB4-OR-4CP	Safety control unit
SB4-OR-4CP-4C	Safety control unit
SB4-OR-4CP-4M	Safety control unit

SLA29 Series

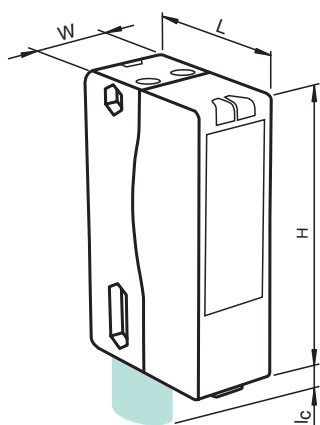


Standard Technical Data

Function principle	Thru-beam sensor
Light type	Red LED
SIL	3
Housing width W	25.8 mm
Housing height H	88 mm
TÜV	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Detection range [mm]	Connection type	Length L	UL
SLA29/105/106	30000	M12 connector plug	54.3	■
SLA29/116	30000	Terminal compartment	65.5	
SLA29/73c	30000	M12 connector plug	54.3	
SLA29/35/105/106	65000	M12 connector plug	54.3	■
SLA29/35/116 R=65m	65000	Terminal compartment	65.5	
SLA29/35/73c R=65m	65000	M12 connector plug	54.3	



Accessories

OMH-05	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-22	Mounting bracket
SB4-OR-4CP	Safety control unit
SB4-OR-4CP-4C	Safety control unit
SB4-OR-4CP-4M	Safety control unit



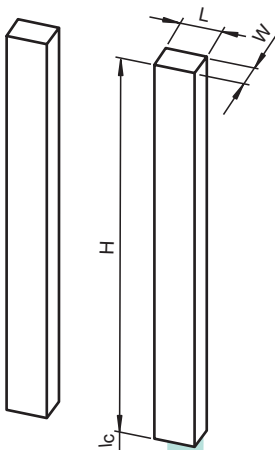
SLCS Series



Standard Technical Data	
Function principle	Thru-beam sensor
Detection range	8000 mm
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	19.2 V
Operating voltage (max)	31.2 V
SIL	3
Connection type	M12 connector plug
Housing length L	30 mm
Housing width W	20 mm
TÜV	■
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Optical resolution	UL
SLCS14	14 mm	■
SLCS30	30 mm	■
SLCS60	60 mm	■
SLCS90	90 mm	■



Accessories	
AA SLCT-01	Alignment aid
OMH-SLCT-03	Mounting aid
OMH-SLCT-05	Mounting aid
OMH-SLCT-10	Mounting aid
OMH-SLCT-11	Mounting aid
OMH-SLCT-120-2100	Safety accessories
SB4-OR-4XP	Safety control unit
SB4-OR-4XP-4M	Safety control unit



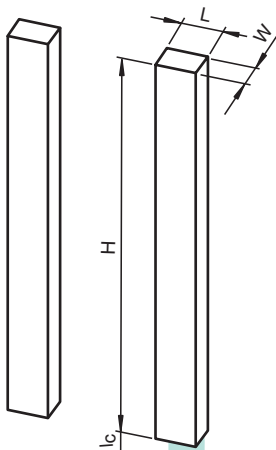
SLCT Series



Standard Technical Data	
Function principle	Thru-beam sensor
Detection range	8000 mm
Light type	Infrared LED
Voltage type	DC
Operating voltage (min)	19.2 V
Operating voltage (max)	31.2 V
SIL	1
Connection type	M12 connector plug
Housing length L	30 mm
Housing width W	20 mm
TÜV	■
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Optical resolution
SLCT14	14 mm
SLCT30	30 mm
SLCT60	60 mm
SLCT90	90 mm



Accessories	
OMH-SLCT-03	Mounting aid
OMH-SLCT-06	Mounting aid
OMH-SLCT-10	Mounting aid
OMH-SLCT-100-2100	Safety accessories
OMH-SLCT-120-2100	Safety accessories
OMH-SLCT-120-2500	Safety accessories
OMH-SLCT-200	Safety accessories
SB4-OR-4XP	Safety control unit

SB4 Series



Standard Technical Data

Voltage type	DC
Operating voltage (min)	19.2 V
Operating voltage (max)	28.8 V
SIL	3
Connection type	Terminal compartment
Housing height H	99 mm
TÜV	■
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Output type	Length L	Width W
SB4 Module 2E	Relay	100.5	22.6
SB4 Module 2E/165	Relay	100.5	22.6
SB4 Module 4C		100.5	22.6
SB4 Module 4C/165		100.5	22.6
SB4 Module 4CO		100.5	22.6
SB4 Module 4COP		100.5	22.6
SB4 Module 4CP		100.5	22.6
SB4 Module 4CP/165		100.5	22.6
SB4 Module 4M		100.5	22.6
SB4 Module 4M/165		100.5	22.6
SB4 Module 4MD		100.5	22.6
SB4 Module 4MD/165		100.5	22.6
SB4 Module 4X		100.5	22.6
SB4 Module 4X/165		100.5	22.6
SB4 Module 4XP		100.5	22.6
SB4 Module 4XP/165		100.5	22.6
SB4 Module 6C		100.5	22.6
SB4 Module OR	Relay	100.5	22.6
SB4 Module OR/165	Relay	100.5	22.6
SB4-OR-4CP	Relay	112.7	45
SB4-OR-4CP-4C	Relay	112.7	45
SB4-OR-4CP-4M	PNP	112.7	45
SB4-OR-4XP	Relay	112.7	45
SB4-OR-4XP-4M	PNP	112.7	45
SB4-OR-4XP-4X	Relay	112.7	45

Accessories

SB4 Cape	Cover
SB4 Housing 2	Empty housing for SB4 control unit
SB4 Housing 3	Empty housing for SB4 control unit
SB4 Housing 6	Empty housing for SB4 control unit
SB4 Housing 8	Empty housing for SB4 control unit
SLA12-LAS-T/124	Safety light barrier with laser light
SLA12-LAS-T/35/124	Safety light barrier with laser light
SLA12/115	Safety light barrier with laser light
SLA12/124	Safety light barrier with laser light
SLA29/105/106	Safety light barrier with laser light

