

Quick Select Product Guide

Industrial Sensors



Your automation, our passion.

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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

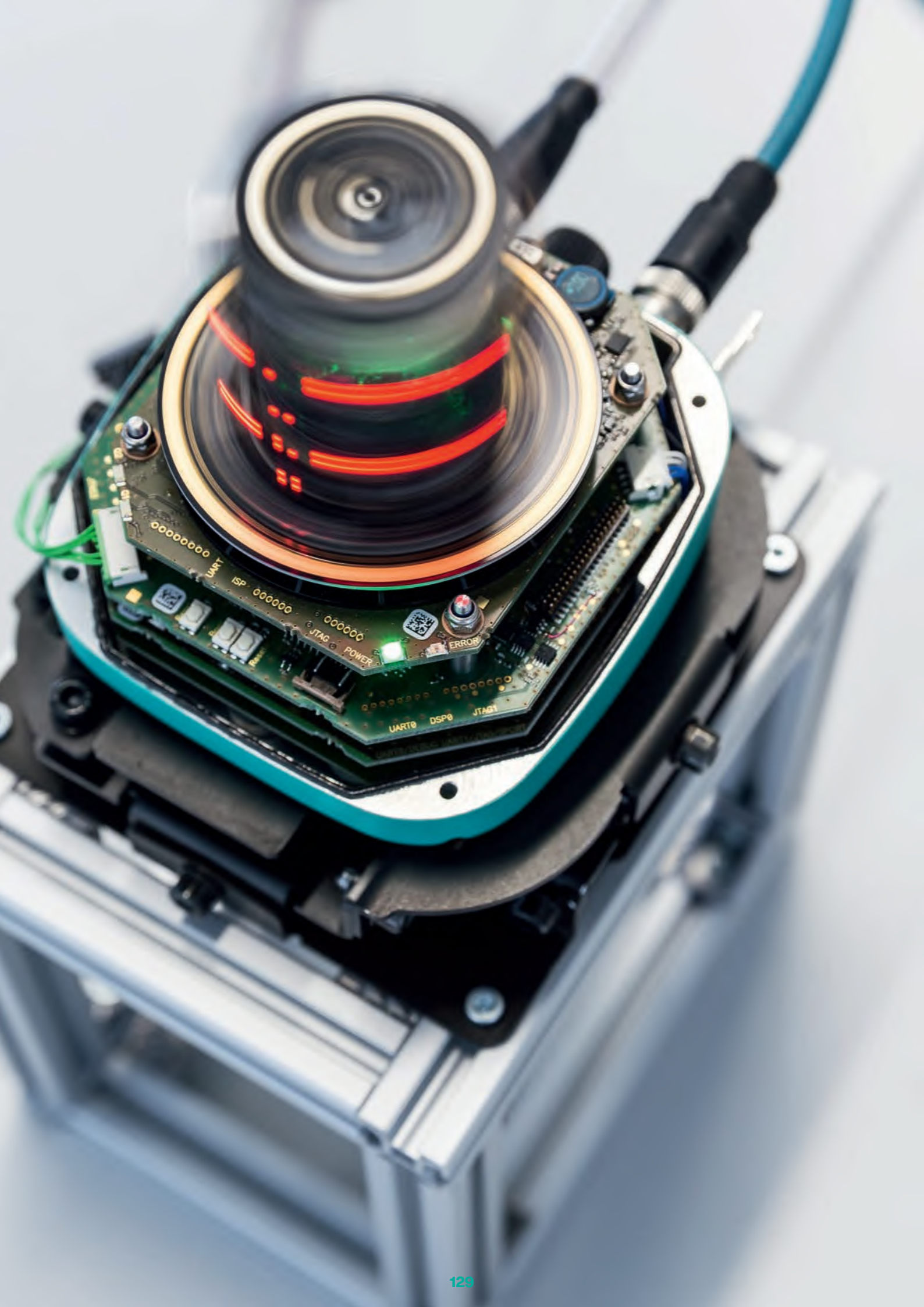
With the development of its Pulse Ranging Technology (PRT), Pepperl+Fuchs unlocked the potential to use direct light runtime measurement in commercial industries for the first time. The world's first 360° 2-D laser scanner R2000 completely revolutionized the navigation of driverless transportation systems. 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 housing designs.



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



Flexibility Redefined



The overarching concept of optoelectronic standard light barriers is to integrate multiple function principles end-to-end into identical standard housing 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 housing designs for outstanding flexibility
- Choice of various cubic and cylindrical standard housing designs
- Innovative DuraBeam laser technology for extra-long service life and increased operating temperature range, even in especially small housing 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 housing 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:
pepperl-fuchs.com/fa-mpt



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Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2 Series Thru-Beam Sensors

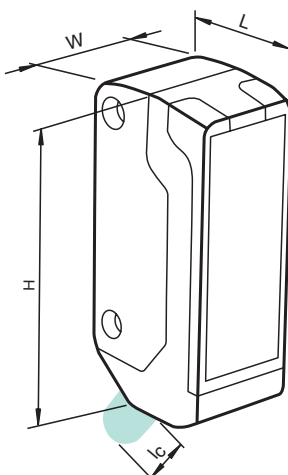


Common Technical Data

Function principle	Thru-beam sensor
Type of voltage	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBE1000-R2-SE0-L	1000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE1000-R2-SE2-0,2M-V31-L	1000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE1000-R2-SE2-L	1000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBE2000-R2-SE0	2000 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBE2000-R2-SE0-0,2M-V31	2000 mm	Red LED	NPN	10 V	30 V	Fixed cable with M8 plug
OBE2000-R2-SE2	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBE2000-R2-SE2-0,2M-V31	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBE2000-R2-SE3	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBE10M-R2-SE0-L	10,000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE10M-R2-SE2-0,2M-V31-L	10,000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE10M-R2-SE2-L	10,000 mm	Red laser diode	PNP	12 V	24 V	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-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2 Series Retroreflective Sensors

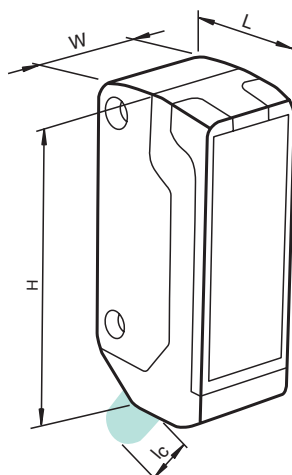


Common Technical Data

Function principle	Retroreflective sensor with polarization filter
Type of voltage	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBR1000-R2-E0	1000 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBR1000-R2-E0-0,4M-V3	1000 mm	Red LED	NPN	10 V	30 V	Other
OBR1000-R2-E2	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBR1000-R2-E2-0,2M-V3	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBR1000-R2-E2-0,2M-V31	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBR2000-R2-E0-L	2000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBR2000-R2-E2-0,2M-V31-L	2000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBR2000-R2-E2-L	2000 mm	Red laser diode	PNP	12 V	24 V	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
REF-H23	Reflector with mounting holes
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
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2 Series

Diffuse Mode Sensors



Common Technical Data

Type of voltage	DC
Housing length L	11.2 mm
Housing width W	7.5 mm
Housing height H	24 mm
EAC	■
UL	■
UKCA	■

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	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBT15-R2-E0	with background suppression	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R2-E0-1T	with background evaluation	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R2-E0-L	with background suppression	15 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT15-R2-E2	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R2-E2-0,2M-V3	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R2-E2-0,2M-V31	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R2-E2-0,2M-V31-L	with background suppression	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT15-R2-E2-1T	with background evaluation	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R2-E2-L	with background suppression	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT20-R2-E0	with background suppression	20 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT20-R2-E2-0,2M-V31	with background suppression	20 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R2-E0	with background suppression	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R2-E0-0,4M-V3	with background suppression	30 mm	Red LED	NPN	10 V	30 V	Other
OBT30-R2-E0-1T	with background evaluation	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R2-E0-L	with background suppression	30 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT30-R2-E2	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R2-E2-0,2M-V3	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R2-E2-0,2M-V31	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R2-E2-0,2M-V31-L	with background suppression	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT30-R2-E2-1T	with background evaluation	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R2-E2-L	with background suppression	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT40-R2-E0	with background suppression	40 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT40-R2-E2-0,2M-V31	with background suppression	40 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT50-R2-E0	with background suppression	50 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT50-R2-E0-1T	with background evaluation	50 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT50-R2-E0-L	with background suppression	50 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT50-R2-E2	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R2-E2-0,2M-V3	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT50-R2-E2-0,2M-V31	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT50-R2-E2-0,2M-V31-L	with background suppression	50 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT50-R2-E2-1T	with background evaluation	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R2-E2-L	with background suppression	50 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT50-R2-E3-0,2M-V31	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT80-R2-E0	with background suppression	80 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT80-R2-E0-L	with background suppression	80 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT80-R2-E2	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT80-R2-E2-0,2M-V3	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT80-R2-E2-0,2M-V31	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT80-R2-E2-0,2M-V31-L	with background suppression	80 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT80-R2-E2-L	with background suppression	80 mm	Red laser diode	PNP	12 V	24 V	Fixed cable

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2F Series Thru-Beam Sensors



Common Technical Data

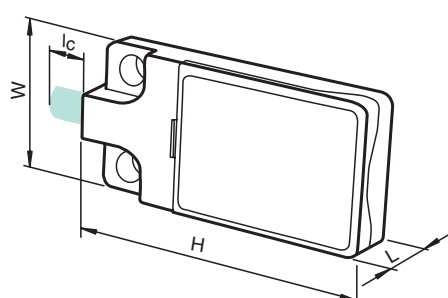
Function principle	Thru-beam sensor
Type of voltage	DC
Housing length L	4.1 mm
Housing width W	12 mm
Housing height H	25.5 mm
UL	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBE500-R2F-SE0	500 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBE500-R2F-SE0-L	500 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE500-R2F-SE2	500 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBE500-R2F-SE2-0.2M-V31	500 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBE500-R2F-SE2-0.2M-V31-L	500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE500-R2F-SE2-L	500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBE1500-R2F-SE0-L	1500 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE1500-R2F-SE2-0.2M-V31-L	1500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE1500-R2F-SE2-L	1500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable

Accessories

V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2F Series

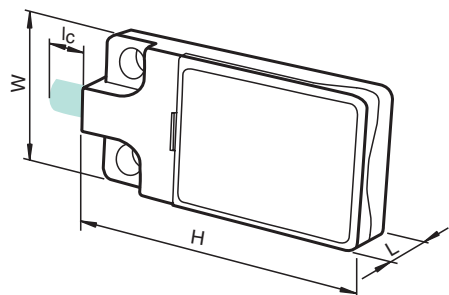
Retroreflective Sensors



Common Technical Data	
Function principle	Retroreflective sensor with polarization filter
Detection range	1500 mm
Light type	Red laser diode
Type of voltage	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	Type of Output	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-H23	Reflector with mounting holes
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, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R2F Series

Diffuse Mode Sensors



Common Technical Data

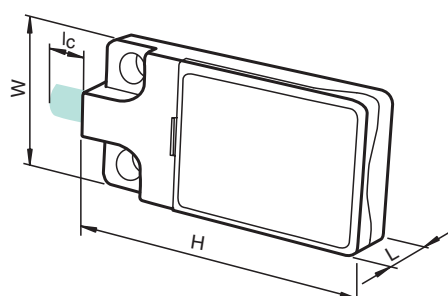
Function principle	Triangulation sensor with background suppression
Type of voltage	DC
Housing length L	4.1 mm
Housing width W	12 mm
Housing height H	25.5 mm

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBT15-R2F-E0	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R2F-E0-L	15 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT15-R2F-E2	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R2F-E2-0,2M-V31	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R2F-E2-0,2M-V31-L	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT15-R2F-E2-L	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT30-R2F-E0	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R2F-E0-L	30 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT30-R2F-E2	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R2F-E2-0,2M-V31	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R2F-E2-0,2M-V31-L	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT30-R2F-E2-L	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable

Accessories

V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3 Series Thru-Beam Sensors

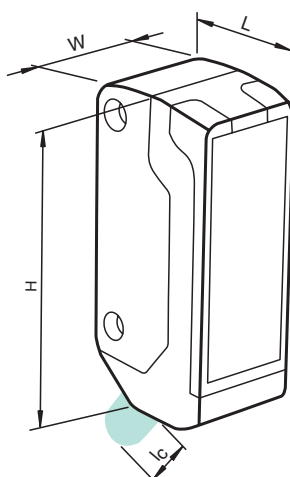


Common Technical Data

Function principle	Thru-beam sensor
Type of voltage	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBE1000-R3-SE0-L	1000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE1000-R3-SE2-0,2M-V31-L	1000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE1000-R3-SE2-L	1000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBE2000-R3-SE0	2000 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBE2000-R3-SE2	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBE2000-R3-SE2-0,2M-V3	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBE2000-R3-SE2-0,2M-V31	2000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBE10M-R3-SE0-L	10,000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE10M-R3-SE2-0,2M-V31-L	10,000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE10M-R3-SE2-L	10,000 mm	Red laser diode	PNP	12 V	24 V	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
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3 Series Retroreflective Sensors

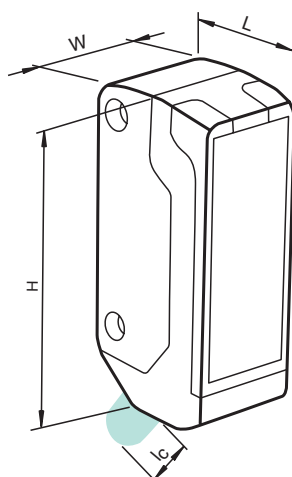


Common Technical Data

Function principle	Retroreflective sensor with polarization filter
Type of voltage	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBR1000-R3-E0	1000 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBR1000-R3-E2	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBR1000-R3-E2-0,2M-V3	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBR1000-R3-E2-0,2M-V31	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBR1000-R3-E3	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBR1000-R3-E3-0,2M-V31	1000 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBR2000-R3-E0-L	2000 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBR2000-R3-E2-0,2M-V31-L	2000 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBR2000-R3-E2-L	2000 mm	Red laser diode	PNP	12 V	24 V	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-H23	Reflector with mounting holes
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
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3 Series Diffuse Mode Sensors



Common Technical Data

Type of voltage	DC
Housing length L	13.8 mm
Housing width W	7.5 mm
Housing height H	26 mm
EAC	■
UL	■
UKCA	■

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	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBT15-R3-E0	with background suppression	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R3-E0-1T	with background evaluation	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R3-E0-L	with background suppression	15 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT15-R3-E2	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R3-E2-0,2M-V3	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R3-E2-0,2M-V31	with background suppression	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R3-E2-0,2M-V31-L	with background suppression	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT15-R3-E2-1T	with background evaluation	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R3-E2-L	with background suppression	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT30-R3-E0	with background suppression	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R3-E0-1T	with background evaluation	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R3-E0-L	with background suppression	30 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT30-R3-E2	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R3-E2-0,2M-V3	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R3-E2-0,2M-V31	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R3-E2-0,2M-V31-L	with background suppression	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT30-R3-E2-1T	with background evaluation	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R3-E2-2,5M-V3-L	with background suppression	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT30-R3-E2-5M	with background suppression	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R3-E2-L	with background suppression	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT50-R3-E0	with background suppression	50 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT50-R3-E0-1T	with background evaluation	50 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT50-R3-E0-L	with background suppression	50 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT50-R3-E2	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R3-E2-0,2M-V3	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT50-R3-E2-0,2M-V31	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT50-R3-E2-0,2M-V31-L	with background suppression	50 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT50-R3-E2-1T	with background evaluation	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R3-E2-3M	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R3-E2-5M	with background suppression	50 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT50-R3-E2-L	with background suppression	50 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT80-R3-E0	with background suppression	80 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT80-R3-E0-L	with background suppression	80 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT80-R3-E2	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT80-R3-E2-0,2M-V3	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT80-R3-E2-0,2M-V31	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT80-R3-E2-0,2M-V31-L	with background suppression	80 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT80-R3-E2-L	with background suppression	80 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT80-R3-E3-0,2M-V31	with background suppression	80 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3F Series Thru-Beam Sensors

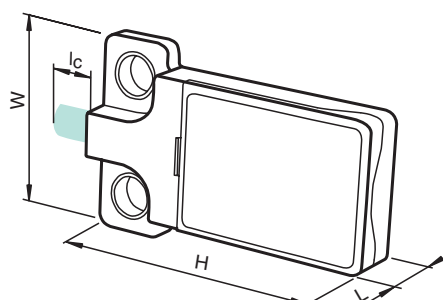


Common Technical Data

Function principle	Thru-beam sensor
Type of voltage	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	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBE500-R3F-SE0	500 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBE500-R3F-SE0-L	500 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE500-R3F-SE2	500 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBE500-R3F-SE2-0,2M-V31	500 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBE500-R3F-SE2-0,2M-V31-L	500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE500-R3F-SE2-L	500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBE1500-R3F-SE0-L	1500 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBE1500-R3F-SE2-0,2M-V31-L	1500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBE1500-R3F-SE2-L	1500 mm	Red laser diode	PNP	12 V	24 V	Fixed cable



Accessories

V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3F Series

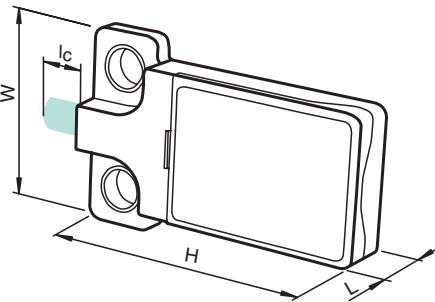
Retroreflective Sensors



Common Technical Data	
Function principle	Retroreflective sensor with polarization filter
Detection range	1500 mm
Light type	Red laser diode
Type of voltage	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	Type of Output	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, 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, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R3F Series Diffuse Mode Sensors



Common Technical Data

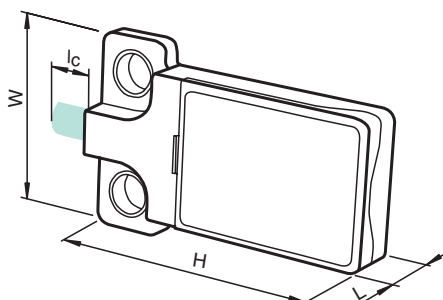
Function principle	Triangulation sensor with background suppression
Type of voltage	DC
Housing length L	4.1 mm
Housing width W	16 mm
Housing height H	25.5 mm

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	UB (Max)	Connection Type
OBT15-R3F-E0	15 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT15-R3F-E0-L	15 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT15-R3F-E2	15 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT15-R3F-E2-0,2M-V31	15 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT15-R3F-E2-0,2M-V31-L	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT15-R3F-E2-L	15 mm	Red laser diode	PNP	12 V	24 V	Fixed cable
OBT30-R3F-E0	30 mm	Red LED	NPN	10 V	30 V	Fixed cable
OBT30-R3F-E0-L	30 mm	Red laser diode	NPN	12 V	24 V	Fixed cable
OBT30-R3F-E2	30 mm	Red LED	PNP	10 V	30 V	Fixed cable
OBT30-R3F-E2-0,2M-V31	30 mm	Red LED	PNP	10 V	30 V	Fixed cable with M8 plug
OBT30-R3F-E2-0,2M-V31-L	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable with M8 plug
OBT30-R3F-E2-L	30 mm	Red laser diode	PNP	12 V	24 V	Fixed cable

Accessories

V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R100 Series Thru-Beam Sensors

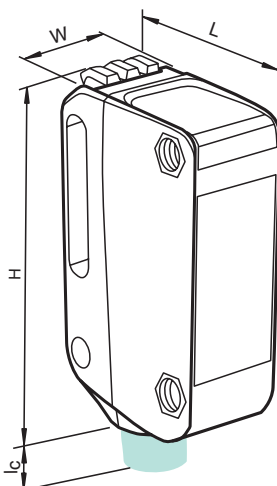


Common Technical Data

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

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

Model Number	Detection Range	Light Type	Type of Output	Connection Type	Height H
OBE12M-R100-S2EP-IO	12,000 mm	Red LED	2 x push-pull	Fixed cable	37.1 mm
OBE12M-R100-S2EP-IO-0,3M-V1	12,000 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBE12M-R100-S2EP-IO-0,3M-V31	12,000 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBE12M-R100-S2EP-IO-V31	12,000 mm	Red LED	2 x push-pull	M8 connector plug	44.5 mm
OBE12M-R100-SEP-IO-0,3M-V3	12,000 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBE12M-R100-SEP-IO-V3	12,000 mm	Red LED	1 x push-pull	M8 connector plug	37.1 mm
OBE20M-R100-S2EP-IO-0,3M-V1-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBE20M-R100-S2EP-IO-0,3M-V31-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBE20M-R100-S2EP-IO-IR	20,000 mm	Infrared LED	2 x push-pull	Fixed cable	37.1 mm
OBE20M-R100-S2EP-IO-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable	37.1 mm
OBE20M-R100-S2EP-IO-V31-IR	20,000 mm	Infrared LED	2 x push-pull	M8 connector plug	44.5 mm
OBE20M-R100-S2EP-IO-V31-L	20,000 mm	Red laser diode	2 x push-pull	M8 connector plug	44.5 mm
OBE20M-R100-SEP-IO-0,3M-V3-L	20,000 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBE20M-R100-SEP-IO-V3-L	20,000 mm	Red laser diode	1 x push-pull	M8 connector plug	37.1 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R100 Series Retroreflective Sensors



Common Technical Data

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

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	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OBG5000-R100-2EP-IO	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable	37.1 mm
OBG5000-R100-2EP-IO-0,3M-V1	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBG5000-R100-2EP-IO-0,3M-V31	for glass detection	3500 mm	Red LED	Sensor	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBG5000-R100-2EP-IO-V31	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	M8 connector plug	44.5 mm
OBG5000-R100-2EP1-IO	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable	37.1 mm
OBG5000-R100-2EP1-IO-0,3M-V1	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBG5000-R100-2EP1-IO-V31	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	M8 connector plug	44.5 mm
OBG5000-R100-E5-IO-V3	for glass detection	3500 mm	Red LED	Push-button	PNP	M8 connector plug	44.5 mm
OBG5000-R100-EP-IO-0,3M-V3	for glass detection	3500 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBG5000-R100-EP-IO-V3	for glass detection	3500 mm	Red LED	Push-button	1 x push-pull	M8 connector plug	44.5 mm
OBR7500-R100-EP-IO-V3	with polarization filter	7500 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBR7000-R100-2EP-IO-1R-IR	without polarization filter	7000 mm	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBR7000-R100-2EP-IO-V31-1R-IR	without polarization filter	7000 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR7000-R100-2EP1-IO-V31-1R-IR	without polarization filter	7000 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR7500-R100-2EP-IO	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBR7500-R100-2EP-IO-0,3M-V1	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBR7500-R100-2EP-IO-0,3M-V31	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBR7500-R100-2EP-IO-V31	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR7500-R100-2EP1-IO	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBR7500-R100-2EP1-IO-0,3M-V1	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBR7500-R100-2EP1-IO-0,3M-V31	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBR7500-R100-2EP1-IO-V31	with polarization filter	7500 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR7500-R100-E2-IO-V31	with polarization filter	7500 mm	Red LED		PNP	M8 connector plug	44.5 mm
OBR7500-R100-EP-IO-0,3M-V3	with polarization filter	7500 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBR10M-R100-2EP-IO-1R-IR	without polarization filter	10,000 mm	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBR10M-R100-2EP-IO-V31-1R-IR	without polarization filter	10,000 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR12M-R100-2EP-IO-0,3M-V1-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBR12M-R100-2EP-IO-0,3M-V31-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBR12M-R100-2EP-IO-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBR12M-R100-2EP-IO-V31-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBR12M-R100-EP-IO-0,3M-V3-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBR12M-R100-EP-IO-V3-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R100 Series Diffuse Mode Sensors



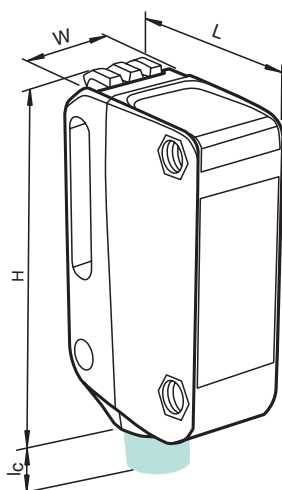
Common Technical Data

Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	21.5 mm
Housing width W	11 mm
EAC	■
UL	■
UKCA	■

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	Light Type	Interface	Operating Elements	Type of Output	Connection Type	Height H
OBT100-R100-2EP-IO-0,3M-V1-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT100-R100-2EP-IO-0,3M-V31-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT100-R100-2EP-IO-1T-L	with background evaluation	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT100-R100-2EP-IO-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT100-R100-2EP-IO-V31-1T-L	with background evaluation	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT100-R100-2EP-IO-V31-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT100-R100-EP-IO-0,3M-V3-1T-L	with background evaluation	100 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT100-R100-EP-IO-0,3M-V3-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT100-R100-EP-IO-V3-1T-L	with background evaluation	100 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBT100-R100-EP-IO-V3-L	with background suppression	100 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBT150-R100-2EP-IO	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT150-R100-2EP-IO-0,3M-V1	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT150-R100-2EP-IO	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT150-R100-2EP1-IO-0,3M-V1	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT150-R100-2EP1-IO-0,3M-V1-IR	with background suppression	150 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	44.5 mm
OBT150-R100-2EP1-IO-0,3M-V31	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT150-R100-2EP1-IO-IR	with background suppression	150 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT150-R100-2EP1-IO-V31	with background suppression	150 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT150-R100-2EP1-IO-V31-IR	with background suppression	150 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OQT150-R100-2EP-IO	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable	37.1 mm
OQT150-R100-2EP-IO-0,3M-V1	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OQT150-R100-2EP-IO-0,3M-V1-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OQT150-R100-2EP-IO-0,3M-V31	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OQT150-R100-2EP-IO-0,3M-V31-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OQT150-R100-2EP-IO-IR	with multiple switch points	150 mm	Infrared LED	IO-Link	Push-button	2 x push-pull	Fixed cable	37.1 mm
OQT150-R100-2EP-IO-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	2 x push-pull	Fixed cable	37.1 mm
OQT150-R100-2EP-IO-V31	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	2 x push-pull	M8 connector plug	44.5 mm
OQT150-R100-2EP-IO-V31-IR	with multiple switch points	150 mm	Infrared LED	IO-Link	Push-button	2 x push-pull	M8 connector plug	44.5 mm
OQT150-R100-2EP-IO-V31-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	2 x push-pull	M8 connector plug	44.5 mm
OQT150-R100-EP-IO-0,3M-V3	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OQT150-R100-EP-IO-0,3M-V3-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OQT150-R100-EP-IO-V3	with multiple switch points	150 mm	Red LED	IO-Link	Push-button	1 x push-pull	M8 connector plug	44.5 mm
OQT150-R100-EP-IO-V3-L	with multiple switch points	150 mm	Red laser diode	IO-Link	Push-button	1 x push-pull	M8 connector plug	44.5 mm
OBT300-R100-2EP-IO-0,3M-V1-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT300-R100-2EP-IO-0,3M-V31-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT300-R100-2EP-IO-1T-L	with background evaluation	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT300-R100-2EP-IO-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm

Model Number	Function Principle	Detection Range	Light Type	Interface	Operating Elements	Type of Output	Connection Type	Height H
OBT300-R100-2EP-IO-V31-1T-L	with background evaluation	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT300-R100-2EP-IO-V31-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT300-R100-E5-IO-0,3M-V3-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	PNP	Fixed cable with M8 plug	37.1 mm
OBT300-R100-E5-IO-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	PNP	Fixed cable	37.1 mm
OBT300-R100-E5-V31-L	with background suppression	300 mm	Red laser diode		Potentiometer	PNP	M8 connector plug	44.5 mm
OBT300-R100-EP-IO-0,3M-V3-1T-L	with background evaluation	300 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT300-R100-EP-IO-0,3M-V3-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT300-R100-EP-IO-V3-1T-L	with background evaluation	300 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBT300-R100-EP-IO-V3-L	with background suppression	300 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-2EP-IO	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT350-R100-2EP-IO-0,3M-V1	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT350-R100-2EP-IO-0,3M-V1-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT350-R100-2EP-IO-0,3M-V1-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBT350-R100-2EP-IO-0,3M-V31	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT350-R100-2EP-IO-0,3M-V31-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT350-R100-2EP-IO-0,3M-V31-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT350-R100-2EP-IO-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT350-R100-2EP-IO-1T-IR	with background evaluation	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT350-R100-2EP-IO-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT350-R100-2EP-IO-V31	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-2EP-IO-V31-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-2EP-IO-V31-1T-IR	with background evaluation	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-2EP-IO-V31-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-2EP1-IO-0,3M-V1-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	44.5 mm
OBT350-R100-2EP1-IO-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBT350-R100-2EP1-IO-V31-IR	with background suppression	350 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-EP-IO-0,3M-V3	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT350-R100-EP-IO-0,3M-V3-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBT350-R100-EP-IO-V3	with background suppression	350 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBT350-R100-EP-IO-V3-1T	with background evaluation	350 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	44.5 mm
OBD1000-R100-2EP-IO	energetic	1000 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBD1000-R100-2EP-IO-0,3M-V1	energetic	1000 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	37.1 mm
OBD1000-R100-2EP-IO-0,3M-V31	energetic	1000 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	37.1 mm
OBD1000-R100-2EP-IO-V31	energetic	1000 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm
OBD1000-R100-EP-IO-0,3M-V3	energetic	1000 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	37.1 mm
OBD1000-R100-EP-IO-V3	energetic	1000 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	37.1 mm
OBD1100-R100-2EP-IO-IR	energetic	1100 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	37.1 mm
OBD1100-R100-2EP-IO-V31-IR	energetic	1100 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	44.5 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R101 Series Thru-Beam Sensors

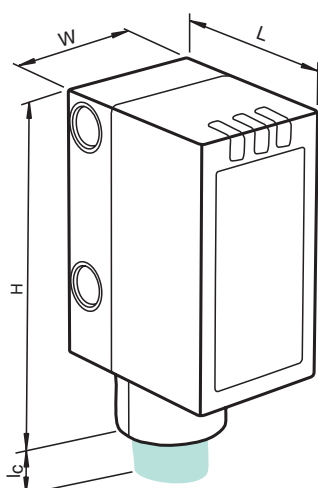


Common Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type	Height H
OBE12M-R101-S2EP-IO	12,000 mm	Red LED	2 x push-pull	Fixed cable	33.8 mm
OBE12M-R101-S2EP-IO-0,3M-V1	12,000 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBE12M-R101-S2EP-IO-0,3M-V31	12,000 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBE12M-R101-S2EP-IO-V31	12,000 mm	Red LED	2 x push-pull	M8 connector plug	41.4 mm
OBE12M-R101-SEP-IO-0,3M-V3	12,000 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBE12M-R101-SEP-IO-V3	12,000 mm	Red LED	1 x push-pull	M8 connector plug	33.8 mm
OBE20M-R101-S2EP-IO-0,3M-V1-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBE20M-R101-S2EP-IO-0,3M-V31-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBE20M-R101-S2EP-IO-IR	20,000 mm	Infrared LED	2 x push-pull	Fixed cable	33.8 mm
OBE20M-R101-S2EP-IO-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable	33.8 mm
OBE20M-R101-S2EP-IO-V31-IR	20,000 mm	Infrared LED	2 x push-pull	M8 connector plug	41.4 mm
OBE20M-R101-S2EP-IO-V31-L	20,000 mm	Red laser diode	2 x push-pull	M8 connector plug	41.4 mm
OBE20M-R101-SEP-IO-0,3M-V3-L	20,000 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBE20M-R101-SEP-IO-V3-L	20,000 mm	Red laser diode	1 x push-pull	M8 connector plug	33.8 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage 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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R101 Series Retroreflective Sensors



Common Technical Data

Type of voltage	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	Light Type	Interface	Operating Elements	Type of Output	Connection Type	Height H
OBG5000-R101-2EP-IO	for glass detection	3500 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable	33.8 mm
OBG5000-R101-2EP-IO-0,3M-V1	for glass detection	3500 mm	Red LED	IO-Link	Sensor	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBG5000-R101-2EP-IO-0,3M-V31	for glass detection	3500 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBG5000-R101-2EP-IO-V31	for glass detection	3500 mm	Red LED	IO-Link	Push-button	2 x push-pull	M8 connector plug	41.4 mm
OBG5000-R101-2EP1-IO	for glass detection	3500 mm	Red LED	IO-Link	Push-button	2 x push-pull	Fixed cable	33.8 mm
OBG5000-R101-2EP1-IO-V31	for glass detection	3500 mm	Red LED	IO-Link	Push-button	2 x push-pull	M8 connector plug	41.4 mm
OBG5000-R101-2P1-IO	with polarization filter	5000 mm	Red LED	IO-Link		2 x push-pull	Fixed cable	31.9 mm
OBG5000-R101-2P1-IO-V31	with polarization filter	5000 mm	Red LED	IO-Link		2 x push-pull	M8 connector plug	39.5 mm
OBG5000-R101-EP-IO-0,3M-V3	for glass detection	3500 mm	Red LED	IO-Link	Push-button	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBG5000-R101-EP-IO-V3	for glass detection	3500 mm	Red LED	IO-Link	Push-button	1 x push-pull	M8 connector plug	41.4 mm
OBR7000-R101-2EP-IO-1R-IR	without polarization filter	7000 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBR7000-R101-2EP-IO-V31-1R-IR	without polarization filter	7000 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBR7500-R101-2EP-IO	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBR7500-R101-2EP-IO-0,3M-V1	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBR7500-R101-2EP-IO-0,3M-V31	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBR7500-R101-2EP-IO-V31	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBR7500-R101-E5-0,3M-V1	with polarization filter	7500 mm	Red LED		Potentiometer	PNP	Fixed cable with M12 plug	33.8 mm
OBR7500-R101-EP-IO-0,3M-V3	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBR7500-R101-EP-IO-V3	with polarization filter	7500 mm	Red LED	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBR7500-R101-P1-Y0447	with polarization filter	7500 mm	Red LED			1 x push-pull	M8 connector plug	39.5 mm
OBR10M-R101-2EP-IO-1R-IR	without polarization filter	10,000 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBR10M-R101-2EP-IO-V31-1R-IR	without polarization filter	10,000 mm	Infrared LED	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBR12M-R101-2EP-IO-0,3M-V1-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBR12M-R101-2EP-IO-0,3M-V31-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBR12M-R101-2EP-IO-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBR12M-R101-2EP-IO-V31-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBR12M-R101-EP-IO-0,3M-V3-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBR12M-R101-EP-IO-V3-L	with polarization filter	12,000 mm	Red laser diode	IO-Link	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm

Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
REF-H33	Reflector with screw mounting
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-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R101 Series Diffuse Mode Sensors



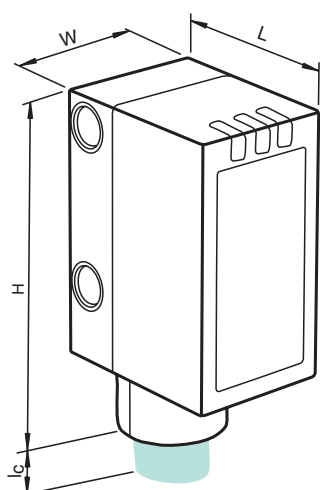
Common Technical Data

Interface	IO-Link
Type of voltage	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	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OBT20-R101-2P1-IO	with background suppression	20 mm	Red LED		2 x push-pull	Fixed cable	31.9 mm
OBT20-R101-2P1-IO-0,3M-V1	with background suppression	20 mm	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9 mm
OBT20-R101-2P1-IO-0,3M-V31	with background suppression	20 mm	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9 mm
OBT20-R101-2P1-IO-V31	with background suppression	20 mm	Red LED		2 x push-pull	M8 connector plug	31.9 mm
OBT20-R101-2P1-IO-V31-IR	with background suppression	20 mm	Infrared LED		2 x push-pull	M8 connector plug	31.9 mm
OBT40-R101-2P1-IO	with background suppression	40 mm	Red LED		2 x push-pull	Fixed cable	31.9 mm
OBT40-R101-2P1-IO-0,3M-V1	with background suppression	40 mm	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9 mm
OBT40-R101-2P1-IO-V31	with background suppression	40 mm	Red LED		2 x push-pull	M8 connector plug	31.9 mm
OBT40-R101-2P1-IO-V31-IR	with background suppression	40 mm	Infrared LED		2 x push-pull	M8 connector plug	31.9 mm
OBT60-R101-2P1-IO	with background suppression	60 mm	Red LED		2 x push-pull	Fixed cable	31.9 mm
OBT60-R101-2P1-IO-0,3M-V1	with background suppression	60 mm	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9 mm
OBT60-R101-2P1-IO-0,3M-V31	with background suppression	60 mm	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9 mm
OBT60-R101-2P1-IO-IR	with background suppression	60 mm	Infrared LED		2 x push-pull	Fixed cable	31.9 mm
OBT60-R101-2P1-IO-V31	with background suppression	60 mm	Red LED		2 x push-pull	M8 connector plug	31.9 mm
OBT60-R101-2P1-IO-V31-IR	with background suppression	60 mm	Infrared LED		2 x push-pull	M8 connector plug	31.9 mm
OBT80-R101-2P1-IO	with background suppression	80 mm	Red LED		2 x push-pull	Fixed cable	31.9 mm
OBT80-R101-2P1-IO-0,3M-V1	with background suppression	80 mm	Red LED		2 x push-pull	Fixed cable with M12 plug	31.9 mm
OBT80-R101-2P1-IO-0,3M-V31	with background suppression	80 mm	Red LED		2 x push-pull	Fixed cable with M8 plug	31.9 mm
OBT80-R101-2P1-IO-V31	with background suppression	80 mm	Red LED		2 x push-pull	M8 connector plug	31.9 mm
OBT80-R101-2P1-IO-V31-IR	with background suppression	80 mm	Infrared LED		2 x push-pull	M8 connector plug	31.9 mm
OBT100-R101-2EP-IO-0,3M-V1-L	with background suppression	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT100-R101-2EP-IO-0,3M-V31-L	with background suppression	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT100-R101-2EP-IO-1T-L	with background evaluation	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT100-R101-2EP-IO-1T-L-Y0244	with background evaluation	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT100-R101-2EP-IO-1T-L-Y0245	with background evaluation	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT100-R101-2EP-IO-L	with background suppression	100 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT100-R101-2EP-IO-V31-1T-L	with background evaluation	100 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT100-R101-2EP-IO-V31-L	with background suppression	100 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT100-R101-EP-IO-0,3M-V3-1T-L	with background evaluation	100 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT100-R101-EP-IO-0,3M-V3-L	with background suppression	100 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT100-R101-EP-IO-V3-1T-L	with background evaluation	100 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBT100-R101-EP-IO-V3-L	with background suppression	100 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBT150-R101-2EP1-IO	with background suppression	150 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT150-R101-2EP1-IO-0,3M-V1	with background suppression	150 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT150-R101-2EP1-IO-V31	with background suppression	150 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	33.8 mm
OBT150-R101-2EP1-IO-V31-IR	with background suppression	150 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	33.8 mm
OQT150-R101-2EP-IO	with multiple switch points	150 mm	Red LED	Push-button	2 x push-pull	Fixed cable	33.8 mm
OQT150-R101-2EP-IO-0,3M-V1	with multiple switch points	150 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OQT150-R101-2EP-IO-0,3M-V1-L	with multiple switch points	150 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OQT150-R101-2EP-IO-0,3M-V31	with multiple switch points	150 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OQT150-R101-2EP-IO-0,3M-V31-L	with multiple switch points	150 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M8 plug	33.8 mm

Model Number	Function Principle	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OQT150-R101-2EP-IO-IR	with multiple switch points	150 mm	Infrared LED	Push-button	2 x push-pull	Fixed cable	33.8 mm
OQT150-R101-2EP-IO-L	with multiple switch points	150 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable	33.8 mm
OQT150-R101-2EP-IO-V31	with multiple switch points	150 mm	Red LED	Push-button	2 x push-pull	M8 connector plug	41.4 mm
OQT150-R101-2EP-IO-V31-IR	with multiple switch points	150 mm	Infrared LED	Push-button	2 x push-pull	M8 connector plug	41.4 mm
OQT150-R101-2EP-IO-V31-L	with multiple switch points	150 mm	Red laser diode	Push-button	2 x push-pull	M8 connector plug	41.4 mm
OQT150-R101-EP-IO-0,3M-V3	with multiple switch points	150 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OQT150-R101-EP-IO-0,3M-V3-L	with multiple switch points	150 mm	Red laser diode	Push-button	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OQT150-R101-EP-IO-V3	with multiple switch points	150 mm	Red LED	Push-button	1 x push-pull	M8 connector plug	41.4 mm
OQT150-R101-EP-IO-V3-L	with multiple switch points	150 mm	Red laser diode	Push-button	1 x push-pull	M8 connector plug	41.4 mm
OBT300-R101-2EP-IO-0,3M-V1-L	with background suppression	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT300-R101-2EP-IO-0,3M-V31-L	with background suppression	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT300-R101-2EP-IO-1T-L	with background evaluation	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT300-R101-2EP-IO-1T-L-Y0112	with background evaluation	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT300-R101-2EP-IO-1T-L-Y0113	with background evaluation	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT300-R101-2EP-IO-L	with background suppression	300 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT300-R101-2EP-IO-V31-1T-L	with background evaluation	300 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT300-R101-2EP-IO-V31-L	with background suppression	300 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT300-R101-EP-IO-0,3M-V3-1T-L	with background evaluation	300 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT300-R101-EP-IO-0,3M-V3-L	with background suppression	300 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT300-R101-EP-IO-V3-1T-L	with background evaluation	300 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBT300-R101-EP-IO-V3-L	with background suppression	300 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-2EP-IO	with background suppression	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT350-R101-2EP-IO-0,3M-V1	with background suppression	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT350-R101-2EP-IO-0,3M-V1-1T	with background evaluation	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBT350-R101-2EP-IO-0,3M-V31	with background suppression	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT350-R101-2EP-IO-0,3M-V31-1T	with background evaluation	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT350-R101-2EP-IO-1T	with background evaluation	350 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT350-R101-2EP-IO-1T-IR	with background evaluation	350 mm	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT350-R101-2EP-IO-IR	with background suppression	350 mm	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBT350-R101-2EP-IO-V31	with background suppression	350 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-2EP-IO-V31-1T	with background evaluation	350 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-2EP-IO-V31-1T-IR	with background evaluation	350 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-2EP-IO-V31-IR	with background suppression	350 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-EP-IO-0,3M-V3	with background suppression	350 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT350-R101-EP-IO-0,3M-V3-1T	with background evaluation	350 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBT350-R101-EP-IO-V3	with background suppression	350 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBT350-R101-EP-IO-V3-1T	with background evaluation	350 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBD1000-R101-2EP-IO	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBD1000-R101-2EP-IO-0,3M-V1	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	33.8 mm
OBD1000-R101-2EP-IO-0,3M-V31	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	33.8 mm
OBD1000-R101-2EP-IO-V31	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm
OBD1000-R101-EP-IO-0,3M-V3	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	33.8 mm
OBD1000-R101-EP-IO-V3	Diffuse mode sensor, energetic	1000 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	41.4 mm
OBD1100-R101-2EP-IO-IR	Diffuse mode sensor, energetic	1100 mm	Infrared LED	Potentiometer	2 x push-pull	Fixed cable	33.8 mm
OBD1100-R101-2EP-IO-V31-IR	Diffuse mode sensor, energetic	1100 mm	Infrared LED	Potentiometer	2 x push-pull	M8 connector plug	41.4 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage 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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R102 Series Thru-Beam Sensors

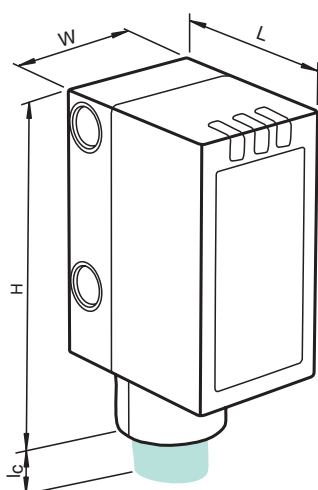


Common Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type
OBE12M-R102-S2EP-IO	12,000 mm	Red LED	2 x push-pull	Fixed cable
OBE12M-R102-S2EP-IO-V31	12,000 mm	Red LED	2 x push-pull	M8 connector plug
OBE12M-R102-SEP-IO-V31	12,000 mm	Red LED	1 x push-pull	M8 connector plug
OBE20M-R102-S2EP-IO-V31-L	20,000 mm	Red laser diode	2 x push-pull	M8 connector plug



Accessories

ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-4.1	Mounting clamp
OMH-R101	Mounting clamp
OMH-R101-Front	Mounting clamp
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R102 Series Retroreflective Sensors



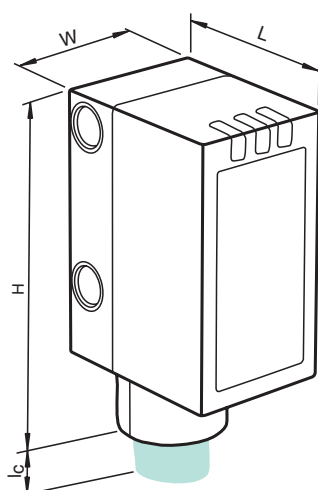
Common Technical Data

Function principle	Retroreflective sensor for glass detection
Detection range	3500 mm
Light type	Red LED
Interface	IO-Link
Operating elements	Push-button
Type of voltage	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	■

Model Number

Type of Output

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

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
REF-H33	Reflector with screw mounting
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
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R102 Series Diffuse Mode Sensors



Common Technical Data

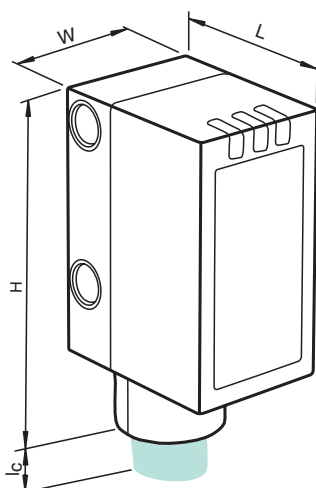
Function principle	Triangulation sensor with background suppression
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
Housing height H	31.9 mm
UL	■

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

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

Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R103 Series Thru-Beam Sensors

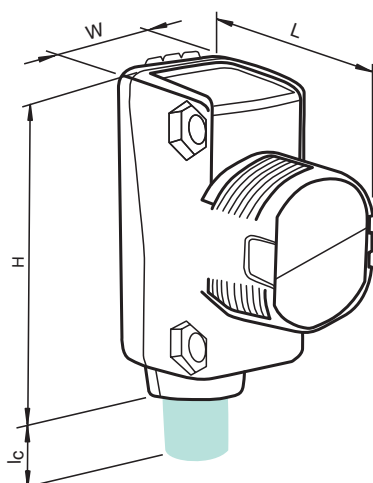


Common Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type	Height H
OBE10M-R103-S2EP-IO	10,000 mm	Red LED	2 x push-pull	Fixed cable	36.5 mm
OBE10M-R103-S2EP-IO-0,3M-V1	10,000 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBE10M-R103-S2EP-IO-0,3M-V31	10,000 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBE10M-R103-S2EP-IO-V31	10,000 mm	Red LED	2 x push-pull	M8 connector plug	43.9 mm
OBE10M-R103-SEP-IO-0,3M-V3	10,000 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBE10M-R103-SEP-IO-V3	10,000 mm	Red LED	1 x push-pull	M8 connector plug	43.9 mm
OBE20M-R103-S2EP-IO-0,3M-V1-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBE20M-R103-S2EP-IO-0,3M-V31-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBE20M-R103-S2EP-IO-L	20,000 mm	Red laser diode	2 x push-pull	Fixed cable	36.5 mm
OBE20M-R103-S2EP-IO-V31-L	20,000 mm	Red laser diode	2 x push-pull	M8 connector plug	43.9 mm
OBE20M-R103-SEP-IO-0,3M-V3-L	20,000 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBE20M-R103-SEP-IO-V3-L	20,000 mm	Red laser diode	1 x push-pull	M8 connector plug	43.9 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-R103-01	Mounting bracket
OMH-R10X-01	Mounting bracket
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R103 Series Retroreflective Sensors

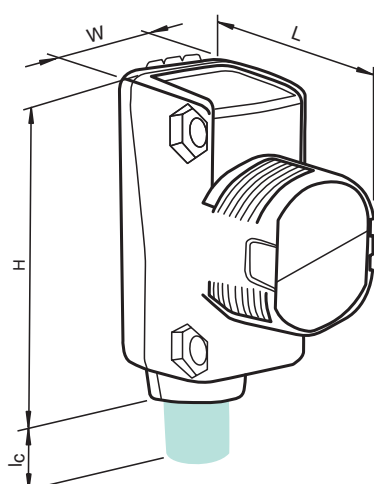


Common Technical Data

Interface	IO-Link
Type of voltage	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	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OBG4000-R103-2EP-IO	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable	36.5 mm
OBG4000-R103-2EP-IO-0,3M-V1	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBG4000-R103-2EP-IO-0,3M-V31	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBG4000-R103-2EP-IO-V31	for glass detection	3500 mm	Red LED	Push-button	2 x push-pull	M8 connector plug	43.9 mm
OBG4000-R103-EP-IO-0,3M-V3	for glass detection	3500 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBG4000-R103-EP-IO-V3	for glass detection	3500 mm	Red LED	Push-button	1 x push-pull	M8 connector plug	43.9 mm
OBR6000-R103-EP-IO-V3	with polarization filter	6000 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBR6000-R103-2EP-IO	with polarization filter	6000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBR6000-R103-2EP-IO-0,3M-V1	with polarization filter	6000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBR6000-R103-2EP-IO-0,3M-V31	with polarization filter	6000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBR6000-R103-2EP-IO-V31	with polarization filter	6000 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBR6000-R103-EP-IO-0,3M-V3	with polarization filter	6000 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBR12M-R103-2EP-IO-0,3M-V1-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBR12M-R103-2EP-IO-0,3M-V31-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBR12M-R103-2EP-IO-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBR12M-R103-2EP-IO-V31-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBR12M-R103-EP-IO-0,3M-V3-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBR12M-R103-EP-IO-V3-L	with polarization filter	12,000 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-R103-01	Mounting bracket
OMH-R10X-01	Mounting bracket
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
REF-H33	Reflector with screw mounting
REF-H50	Rectangular reflector, 51 mm x 61 mm, mounting holes, retaining tab



66307 Mannheim, Germany

PEPPERL+FUCHS

PN 267075-0127
OBD1000-R100
-2EP-IO-V31

$U_B=10-30\text{ V DC}$

Class 2



Type 1 enclosure



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R103 Series Diffuse Mode Sensors



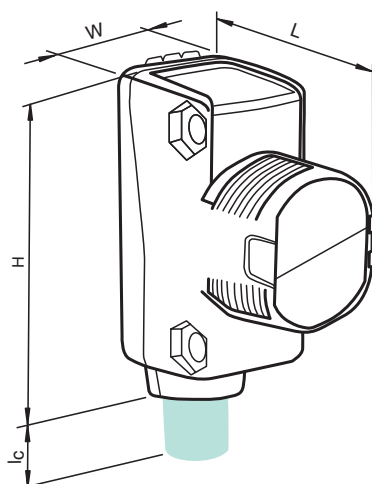
Common Technical Data

Interface	IO-Link
Type of voltage	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	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OBT80-R103-2EP-IO-0,3M-V1-1T-L	with background evaluation	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT80-R103-2EP-IO-0,3M-V1-L	with background suppression	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT80-R103-2EP-IO-0,3M-V31-L	with background suppression	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT80-R103-2EP-IO-1T-L	with background evaluation	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT80-R103-2EP-IO-1T-L-Y0351	with background evaluation	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT80-R103-2EP-IO-L	with background suppression	80 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT80-R103-2EP-IO-V31-1T-L	with background evaluation	80 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT80-R103-2EP-IO-V31-L	with background suppression	80 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT80-R103-EP-IO-0,3M-V3-1T-L	with background evaluation	80 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT80-R103-EP-IO-0,3M-V3-L	with background suppression	80 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT80-R103-EP-IO-V3-1T-L	with background evaluation	80 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBT80-R103-EP-IO-V3-L	with background suppression	80 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OQT120-R103-2EP-IO	with multiple switch points	120 mm	Red LED	Push-button	2 x push-pull	Fixed cable	36.5 mm
OQT120-R103-2EP-IO-0,3M-V1	with multiple switch points	120 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OQT120-R103-2EP-IO-0,3M-V1-L	with multiple switch points	120 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OQT120-R103-2EP-IO-0,3M-V31	with multiple switch points	120 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OQT120-R103-2EP-IO-0,3M-V31-L	with multiple switch points	120 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OQT120-R103-2EP-IO-L	with multiple switch points	120 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable	36.5 mm
OQT120-R103-2EP-IO-V31	with multiple switch points	120 mm	Red LED	Push-button	2 x push-pull	M8 connector plug	43.9 mm
OQT120-R103-2EP-IO-V31-L	with multiple switch points	120 mm	Red laser diode	Push-button	2 x push-pull	M8 connector plug	43.9 mm
OQT120-R103-EP-IO-0,3M-V3	with multiple switch points	120 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OQT120-R103-EP-IO-0,3M-V3-L	with multiple switch points	120 mm	Red laser diode	Push-button	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OQT120-R103-EP-IO-V3	with multiple switch points	120 mm	Red LED	Push-button	1 x push-pull	M8 connector plug	43.9 mm
OQT120-R103-EP-IO-V3-L	with multiple switch points	120 mm	Red laser diode	Push-button	1 x push-pull	M8 connector plug	43.9 mm
OBT250-R103-2EP-IO-0,3M-V1-L	with background suppression	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT250-R103-2EP-IO-0,3M-V31-L	with background suppression	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT250-R103-2EP-IO-1T-L	with background evaluation	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT250-R103-2EP-IO-1T-L-Y0329	with background evaluation	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT250-R103-2EP-IO-1T-L-Y0330	with background evaluation	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT250-R103-2EP-IO-L	with background suppression	250 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT250-R103-2EP-IO-V31-1T-L	with background evaluation	250 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT250-R103-2EP-IO-V31-L	with background suppression	250 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT250-R103-EP-IO-0,3M-V3-1T-L	with background evaluation	250 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT250-R103-EP-IO-0,3M-V3-L	with background suppression	250 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT250-R103-EP-IO-V3-1T-L	with background evaluation	250 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBT250-R103-EP-IO-V3-L	with background suppression	250 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBT300-R103-2EP-IO	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT300-R103-2EP-IO-0,3M-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT300-R103-2EP-IO-0,3M-V1-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT300-R103-2EP-IO-0,3M-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT300-R103-2EP-IO-0,3M-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm

Model Number	Function Principle	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type	Height H
OBT300-R103-2EP-IO-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBT300-R103-2EP-IO-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT300-R103-2EP-IO-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBT300-R103-2EP1-IO-0,3M-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBT300-R103-EP-IO-0,3M-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT300-R103-EP-IO-0,3M-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBT300-R103-EP-IO-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBT300-R103-EP-IO-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm
OBD800-R103-2EP-IO	energetic	800 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable	36.5 mm
OBD800-R103-2EP-IO-0,3M-V1	energetic	800 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OBD800-R103-2EP-IO-0,3M-V31	energetic	800 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OBD800-R103-2EP-IO-V31	energetic	800 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug	43.9 mm
OBD800-R103-EP-IO-0,3M-V3	energetic	800 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OBD800-R103-EP-IO-V3	energetic	800 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug	43.9 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-R103-01	Mounting bracket
OMH-R10X-01	Mounting bracket
OMH-R10X-04	Mounting bracket
OMH-R10X-10	Mounting bracket
REF-H33	Reflector with screw mounting
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

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R200 Series Thru-Beam Sensors

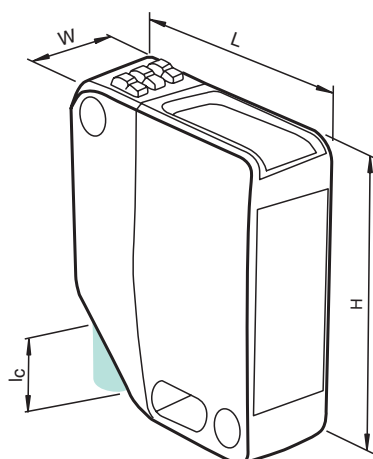


Common Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type
OBE25M-R200-S2EP-IO	25,000 mm	Red LED	2 x push-pull	Fixed cable
OBE25M-R200-S2EP-IO-0,3M-V1	25,000 mm	Red LED	2 x push-pull	Fixed cable with M12 plug
OBE25M-R200-S2EP-IO-0,3M-V31	25,000 mm	Red LED	2 x push-pull	Fixed cable with M8 plug
OBE25M-R200-S2EP-IO-V1	25,000 mm	Red LED	2 x push-pull	M12 connector plug
OBE25M-R200-S2EP-IO-V31	25,000 mm	Red LED	2 x push-pull	M8 connector plug
OBE25M-R200-SEP-IO-0,3M-V3	25,000 mm	Red LED	1 x push-pull	Fixed cable with M8 plug
OBE25M-R200-SEP-IO-0,3M-V3	25,000 mm	Red LED	1 x push-pull	M8 connector plug
OBE40M-R200-S2EP-IO-0,3M-V1-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OBE40M-R200-S2EP-IO-0,3M-V31-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OBE40M-R200-S2EP-IO-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable
OBE40M-R200-S2EP-IO-V1-L	40,000 mm	Red laser diode	2 x push-pull	M12 connector plug
OBE40M-R200-S2EP-IO-V31-L	40,000 mm	Red laser diode	2 x push-pull	M8 connector plug
OBE40M-R200-SEP-IO-0,3M-V3-L	40,000 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OBE40M-R200-SEP-IO-V3-L	40,000 mm	Red laser diode	1 x push-pull	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-MLV12-HWG	Fixing bracket for MLV12 series sensors
OMH-MLV12-HWK	Fixing bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick mounting aid
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R200 Series Retroreflective Sensors



Common Technical Data

Interface	IO-Link
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Type of Output	Connection Type
OBG8000-R200-EP-IO-V3	for glass detection	5600 mm	Red LED	Push-button	1 x push-pull	M8 connector plug
OBG8000-R200-2EP-IO	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable
OBG8000-R200-2EP-IO-0,3M-V1	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R200-2EP-IO-0,3M-V15	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R200-2EP-IO-0,3M-V31	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug
OBG8000-R200-2EP-IO-V1	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OBG8000-R200-2EP-IO-V15	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OBG8000-R200-2EP-IO-V31	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M8 connector plug
OBG8000-R200-EP-IO-0,3M-V3	for glass detection	5600 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug
OBR15M-R200-2EP-IO	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBR15M-R200-2EP-IO-0,3M-V1	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R200-2EP-IO-0,3M-V15	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R200-2EP-IO-0,3M-V31	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR15M-R200-2EP-IO-V1	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R200-2EP-IO-V15	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R200-2EP-IO-V31	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBR15M-R200-EP-IO-0,3M-V3	with polarization filter	15,000 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR15M-R200-EP-IO-V3	with polarization filter	15,000 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBR25M-R200-2EP-IO-0,3M-V1-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R200-2EP-IO-0,3M-V15-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R200-2EP-IO-0,3M-V31-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR25M-R200-2EP-IO-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBR25M-R200-2EP-IO-V1-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R200-2EP-IO-V15-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R200-2EP-IO-V31-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBR25M-R200-A5-IO-V1-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	PNP	M12 connector plug
OBR25M-R200-EP-IO-0,3M-V3-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR25M-R200-EP-IO-V3-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug

Accessories

FE-RR1	Round reflector ø 80.87 mm, mounting hole in center
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-MLV12-HWG	Fixing bracket for MLV12 series sensors
OMH-MLV12-HWK	Fixing bracket for MLV12 series sensors
OMH-R20x-Quick-Mount	Quick mounting aid
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
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
REF-MH20	Rectangular reflector with microstructure, 32 mm x 20 mm, mounting holes

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R200 Series Diffuse Mode Sensors



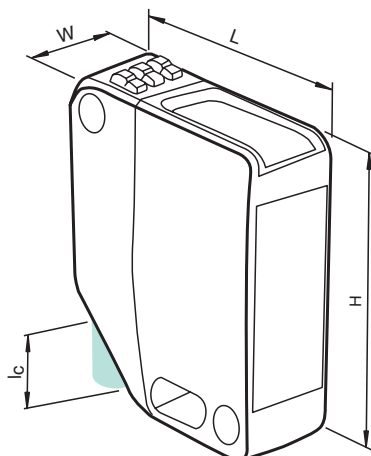
Common Technical Data

Interface	IO-Link
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Type of Output	Connection Type
OBT300-R200-2EP-IO	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R200-2EP-IO-0,3M-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R200-2EP-IO-0,3M-V1-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R200-2EP-IO-0,3M-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R200-2EP-IO-0,3M-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R200-2EP-IO-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R200-2EP-IO-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R200-2EP-IO-V1-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R200-2EP-IO-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R200-2EP-IO-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R200-EP-IO-0,3M-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R200-EP-IO-0,3M-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R200-EP-IO-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT300-R200-EP-IO-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OQT350-R200-2EP-IO-0,3M-V1-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M12 plug
OQT350-R200-2EP-IO-0,3M-V31-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M8 plug
OQT350-R200-2EP-IO-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable
OQT350-R200-2EP-IO-V1-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	M12 connector plug
OQT350-R200-2EP-IO-V31-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	M8 connector plug
OQT350-R200-EP-IO-0,3M-V3-L	with multiple switch points	350 mm	Red laser diode	Push-button	1 x push-pull	Fixed cable with M8 plug
OQT350-R200-EP-IO-V3-L	with multiple switch points	350 mm	Red laser diode	Push-button	1 x push-pull	M8 connector plug
OQT400-R200-EP-IO-V3	with multiple switch points	400 mm	Red LED	Push-button	1 x push-pull	M8 connector plug
OQT400-R200-2EP-IO	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable
OQT400-R200-2EP-IO-0,3M-V1	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OQT400-R200-2EP-IO-0,3M-V31	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug
OQT400-R200-2EP-IO-V1	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OQT400-R200-2EP-IO-V31	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	M8 connector plug
OQT400-R200-EP-IO-0,3M-V3	with multiple switch points	400 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-0,3M-V1-L	with background suppression	600 mm	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 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R200-2EP-IO-1T-L-Y0233	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R200-2EP-IO-1T-L-Y0236	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R200-2EP-IO-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R200-2EP-IO-V1-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R200-2EP-IO-V1-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R200-2EP-IO-V31-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R200-2EP-IO-V31-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R200-EP-IO-0,3M-V3-1T-L	with background evaluation	600 mm	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 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug

Model Number	Function Principle	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type
OBT600-R200-EP-IO-V3-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT600-R200-EP-IO-V3-L	with background suppression	600 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R200-2EP-IO	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R200-2EP-IO-0,3M-V1	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R200-2EP-IO-0,3M-V1-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R200-2EP-IO-0,3M-V31	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R200-2EP-IO-0,3M-V31-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R200-2EP-IO-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R200-2EP-IO-V1	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R200-2EP-IO-V1-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R200-2EP-IO-V31	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R200-2EP-IO-V31-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R200-EP-IO-0,3M-V3	with background suppression	650 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R200-EP-IO-0,3M-V3-1T	with background evaluation	650 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R200-EP-IO-V3	with background suppression	650 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R200-EP-IO-V3-1T	with background evaluation	650 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBD1400-R200-2EP-IO	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBD1400-R200-2EP-IO-0,3M-V1	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBD1400-R200-2EP-IO-0,3M-V31	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBD1400-R200-2EP-IO-V1	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBD1400-R200-2EP-IO-V31	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBD1400-R200-EP-IO-0,3M-V3	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBD1400-R200-EP-IO-V3	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-MLV12-HWG	Fixing bracket for MLV12 series sensors
OMH-MLV12-HWK	Fixing bracket for MLV12 series sensors
OMH-R200-01	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick mounting aid
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R201 Series Thru-Beam Sensors

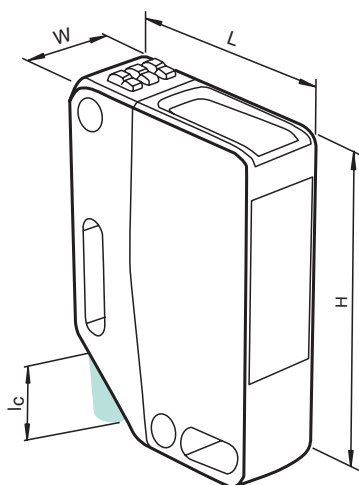


Common Technical Data

Function principle	Thru-beam sensor
Interface	IO-Link
Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type
OBE25M-R201-S2EP-IO	25,000 mm	Red LED	2 x push-pull	Fixed cable
OBE25M-R201-S2EP-IO-0,3M-V1	25,000 mm	Red LED	2 x push-pull	Fixed cable with M12 plug
OBE25M-R201-S2EP-IO-0,3M-V31	25,000 mm	Red LED	2 x push-pull	Fixed cable with M8 plug
OBE25M-R201-S2EP-IO-V1	25,000 mm	Red LED	2 x push-pull	M12 connector plug
OBE25M-R201-S2EP-IO-V31	25,000 mm	Red LED	2 x push-pull	M8 connector plug
OBE25M-R201-SEP-IO-0,3M-V3	25,000 mm	Red LED	1 x push-pull	Fixed cable with M8 plug
OBE25M-R201-SEP-IO-V3	25,000 mm	Red LED	1 x push-pull	M8 connector plug
OBE40M-R201-S2EP-IO-0,3M-V1-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OBE40M-R201-S2EP-IO-0,3M-V31-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OBE40M-R201-S2EP-IO-L	40,000 mm	Red laser diode	2 x push-pull	Fixed cable
OBE40M-R201-S2EP-IO-V1-L	40,000 mm	Red laser diode	2 x push-pull	M12 connector plug
OBE40M-R201-S2EP-IO-V31-L	40,000 mm	Red laser diode	2 x push-pull	M8 connector plug
OBE40M-R201-SEP-IO-0,3M-V3-L	40,000 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OBE40M-R201-SEP-IO-V3-L	40,000 mm	Red laser diode	1 x push-pull	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage 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
OMH-RL31-08	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R201 Series Retroreflective Sensors

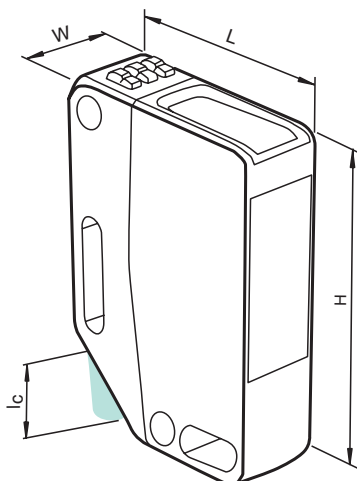


Common Technical Data

Interface	IO-Link
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Type of Output	Connection Type
OBG8000-R201-2EP-IO	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable
OBG8000-R201-2EP-IO-0.3M-V1	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R201-2EP-IO-0,3M-V15	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OBG8000-R201-2EP-IO-0,3M-V31	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug
OBG8000-R201-2EP-IO-V1	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OBG8000-R201-2EP-IO-V15	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OBG8000-R201-2EP-IO-V31	for glass detection	5600 mm	Red LED	Push-button	2 x push-pull	M8 connector plug
OBG8000-R201-EP-IO-0,3M-V3	for glass detection	5600 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug
OBG8000-R201-EP-IO-V3	for glass detection	5600 mm	Red LED	Push-button	1 x push-pull	M8 connector plug
OBR15M-R201-2EP-IO	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBR15M-R201-2EP-IO-0,3M-V1	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R201-2EP-IO-0,3M-V15	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR15M-R201-2EP-IO-0,3M-V31	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR15M-R201-2EP-IO-V1	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R201-2EP-IO-V15	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBR15M-R201-2EP-IO-V31	with polarization filter	15,000 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBR15M-R201-EP-IO-0,3M-V3	with polarization filter	15,000 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR15M-R201-EP-IO-V3	with polarization filter	15,000 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBR25M-R201-2EP-IO-0,3M-V1-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R201-2EP-IO-0,3M-V15-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBR25M-R201-2EP-IO-0,3M-V31-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBR25M-R201-2EP-IO-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBR25M-R201-2EP-IO-V1-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R201-2EP-IO-V15-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBR25M-R201-2EP-IO-V31-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBR25M-R201-EP-IO-0,3M-V3-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBR25M-R201-EP-IO-V3-L	with polarization filter	25,000 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug



Accessories

FE-RR1	Round reflector ø 80.87 mm, mounting hole in center
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-R20x-Quick-Mount	Quick mounting aid
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
OMH-RL31-04	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R201 Series Diffuse Mode Sensors



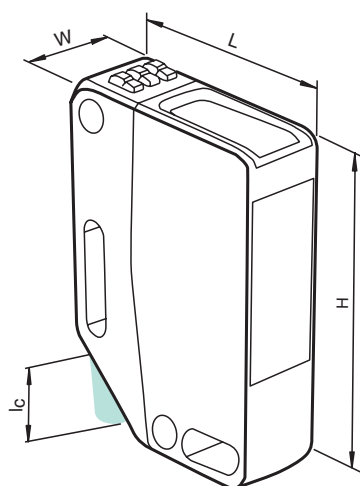
Common Technical Data

Interface	IO-Link
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Type of Output	Connection Type
OBT300-R201-2EP-IO	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R201-2EP-IO-0,3M-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R201-2EP-IO-0,3M-V1-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT300-R201-2EP-IO-0,3M-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R201-2EP-IO-0,3M-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT300-R201-2EP-IO-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT300-R201-2EP-IO-V1	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R201-2EP-IO-V1-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT300-R201-2EP-IO-V31	with background suppression	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R201-2EP-IO-V31-1T	with background evaluation	300 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT300-R201-EP-IO-0,3M-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R201-EP-IO-0,3M-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT300-R201-EP-IO-V3	with background suppression	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT300-R201-EP-IO-V3-1T	with background evaluation	300 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OQT350-R201-2EP-IO-0,3M-V1-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M12 plug
OQT350-R201-2EP-IO-0,3M-V31-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable with M8 plug
OQT350-R201-2EP-IO-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	Fixed cable
OQT350-R201-2EP-IO-V1-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	M12 connector plug
OQT350-R201-2EP-IO-V31-L	with multiple switch points	350 mm	Red laser diode	Push-button	2 x push-pull	M8 connector plug
OQT350-R201-EP-IO-0,3M-V3-L	with multiple switch points	350 mm	Red laser diode	Push-button	1 x push-pull	Fixed cable with M8 plug
OQT350-R201-EP-IO-V3-L	with multiple switch points	350 mm	Red laser diode	Push-button	1 x push-pull	M8 connector plug
OQT400-R201-2EP-IO	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable
OQT400-R201-2EP-IO-0,3M-V1	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M12 plug
OQT400-R201-2EP-IO-0,3M-V31	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	Fixed cable with M8 plug
OQT400-R201-2EP-IO-V1	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	M12 connector plug
OQT400-R201-2EP-IO-V31	with multiple switch points	400 mm	Red LED	Push-button	2 x push-pull	M8 connector plug
OQT400-R201-EP-IO-0,3M-V3	with multiple switch points	400 mm	Red LED	Push-button	1 x push-pull	Fixed cable with M8 plug
OQT400-R201-EP-IO-V3	with multiple switch points	400 mm	Red LED	Push-button	1 x push-pull	M8 connector plug
OBT600-R201-2EP-IO-0,3M-V1-L	with background suppression	600 mm	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 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R201-2EP-IO-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R201-2EP-IO-1T-L-Y0247	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT600-R201-2EP-IO-1T-L-Y0250	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT600-R201-2EP-IO-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	Fixed cable
OBT600-R201-2EP-IO-V1-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R201-2EP-IO-V1-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	M12 connector plug
OBT600-R201-2EP-IO-V31-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R201-2EP-IO-V31-L	with background suppression	600 mm	Red laser diode	Potentiometer	2 x push-pull	M8 connector plug
OBT600-R201-EP-IO-0,3M-V3-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT600-R201-EP-IO-0,3M-V3-L	with background suppression	600 mm	Red laser diode	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT600-R201-EP-IO-V3-1T-L	with background evaluation	600 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug

Model Number	Function Principle	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type
OBT600-R201-EP-IO-V3-L	with background suppression	600 mm	Red laser diode	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R201-2EP-IO	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R201-2EP-IO-0,3M-V1	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R201-2EP-IO-0,3M-V1-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBT650-R201-2EP-IO-0,3M-V31	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R201-2EP-IO-0,3M-V31-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBT650-R201-2EP-IO-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBT650-R201-2EP-IO-V1	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R201-2EP-IO-V1-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBT650-R201-2EP-IO-V31	with background suppression	650 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R201-2EP-IO-V31-1T	with background evaluation	650 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBT650-R201-EP-IO-0,3M-V3	with background suppression	650 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R201-EP-IO-0,3M-V3-1T	with background evaluation	650 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBT650-R201-EP-IO-V3	with background suppression	650 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBT650-R201-EP-IO-V3-1T	with background evaluation	650 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug
OBD1400-R201-2EP-IO	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable
OBD1400-R201-2EP-IO-0,3M-V1	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M12 plug
OBD1400-R201-2EP-IO-0,3M-V31	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	Fixed cable with M8 plug
OBD1400-R201-2EP-IO-V1	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	M12 connector plug
OBD1400-R201-2EP-IO-V31	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	2 x push-pull	M8 connector plug
OBD1400-R201-EP-IO-0,3M-V3	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	1 x push-pull	Fixed cable with M8 plug
OBD1400-R201-EP-IO-V3	Diffuse mode sensor, energetic	1400 mm	Red LED	Potentiometer	1 x push-pull	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-R20x-Quick-Mount	Quick mounting aid
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
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
OMH-RL31-08	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

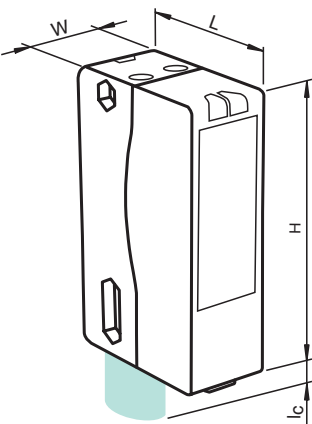
RL28 Series Thru-Beam Sensors



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

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

Model Number	Detection Range	Light Type	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	Length L	CCC	UL	Vds	UKCA
LA28/LK28-FC-Z/31/116	10,000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm	■	■	■	■
LD28/LV28-F1-3974/47/82b/112	30,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	65.5 mm	■	■	■	■
LA28/LK28-Z-F1/31/116	65,000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm	■	■	■	■
LD28/LV28-LAS-F1-7675	120,000 mm	Red laser diode	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm	■	■	■	■



Accessories	
OMH-05	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-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
V15-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 5-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL28 Series Retroreflective Sensors



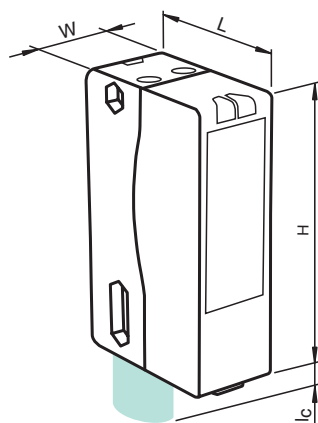
Common Technical Data

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	Light Type	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	Length L	CCC	EAC	UL	VdS	UKCA
RL28-54-G-Z/47/112	for glass detection	5600 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	65.5 mm					
RL28-54-G-Z/47/116	for glass detection	5600 mm	Red LED	PNP	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-54-G-Z/49/116	for glass detection	5600 mm	Red LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-54-G-Z/76a/110/116	for glass detection	5600 mm	Red LED	1 x push-pull	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-54-G/47/105	for glass detection	5600 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-54-G/47/115	for glass detection	5600 mm	Red LED	PNP	DC	10 V	30 V	Fixed cable	54.3 mm					
RL28-54-G/49/105	for glass detection	5600 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-54-G/76a/110/115	for glass detection	5600 mm	Red LED	1 x push-pull	DC	10 V	30 V	Fixed cable	54.3 mm					
RLK28-54-G/31/116	for glass detection	5600 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm					
RLK28-FC-55-Z/31/116	without polarization filter	3000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm					
RL28-55-V-Z/47/82b/112	with polarization filter	13,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	65.5 mm					
RL28-55-V-Z/47/82b/116	with polarization filter	13,000 mm	Red LED	PNP	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-55-V-Z/49/76a/82b/116	with polarization filter	13,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-55-V/47/82b/105	with polarization filter	13,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55-V/49/74	with polarization filter	13,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M18 connector plug	54.3 mm					
RL28-55-V/49/82b/105	with polarization filter	13,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55-V/82b/105/110	with polarization filter	13,000 mm	Red LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55-Z/47/76a/82b/116	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-55-Z/47/82b/112	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	65.5 mm					
RL28-55-Z/49/76a/82b/116	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-55-Z/49/82b/112	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	65.5 mm					
RL28-55-Z/76a/82b/110/116	with polarization filter	17,000 mm	Red LED	1 x push-pull	DC	10 V	30 V	Terminal compartment	65.5 mm					
RL28-55-Z/82b/110/112	with polarization filter	17,000 mm	Red LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	65.5 mm					
RL28-55/47/73c	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/47/74	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	M18 connector plug	54.3 mm					
RL28-55/47/76a/105	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/47/82b/105	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/47/82b/105/106	with polarization filter	17,000 mm	Red LED	PNP	DC	19.2 V	28.8 V	M12 connector plug	54.3 mm					
RL28-55/47/82b/115	with polarization filter	17,000 mm	Red LED	PNP	DC	10 V	30 V	Fixed cable	54.3 mm					
RL28-55/49/74	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M18 connector plug	54.3 mm					
RL28-55/49/76b/105	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/49/82b/105	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/49/82b/115	with polarization filter	17,000 mm	Red LED	PNP/NPN	DC	10 V	30 V	Fixed cable	54.3 mm					
RL28-55/82b/105/110	with polarization filter	17,000 mm	Red LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm					
RL28-55/82b/110/115	with polarization filter	17,000 mm	Red LED	1 x push-pull	DC	10 V	30 V	Fixed cable	54.3 mm					
RLK28-55-V-Z/31/116	with polarization filter	13,000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm					

Model Number	Function Principle	Detection Range	Light Type	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	Length L	CCC	EAC	UL	Vds	UKCA
RLK28-55-Z/31/116	with polarization filter	17,000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm	■	■	■		
RLK28-55/31/116	with polarization filter	17,000 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm	■	■	■		
RL28-55/35/47/115b	with polarization filter	20,000 mm	Red LED	PNP	DC	10 V	30 V	Fixed cable with M12 plug	54.3 mm		■	■		■
RL28-55-LAS/47/82b/105	with polarization filter	30,000 mm	Red laser diode	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm		■	■		■
RL28-55-LAS/47/82b/115	with polarization filter	30,000 mm	Red laser diode	PNP	DC	10 V	30 V	Fixed cable	54.3 mm		■	■		■
RL28-55-LAS/49/82b/105	with polarization filter	30,000 mm	Red laser diode	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm		■	■		■
RL28-55-LAS/76a/82b/105/110	with polarization filter	30,000 mm	Red laser diode	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm		■	■		■
RL28-55-LAS/76a/82b/110/115	with polarization filter	30,000 mm	Red laser diode	1 x push-pull	DC	10 V	30 V	Fixed cable	54.3 mm		■	■		■
RLK28-55-LAS-Z/31/116	with polarization filter	30,000 mm	Red laser diode	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm	■	■	■		



Accessories

OMH-05	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
OMH-K03	Mounting clamp for sensors with dovetail
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
REF-C110-2	Round reflector $\varnothing$ 84 mm, mounting hole in center
REF-MH82	Rectangular reflector with microstructure, 82 mm x 60 mm, mounting holes

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL28 Series

Diffuse Mode Sensors



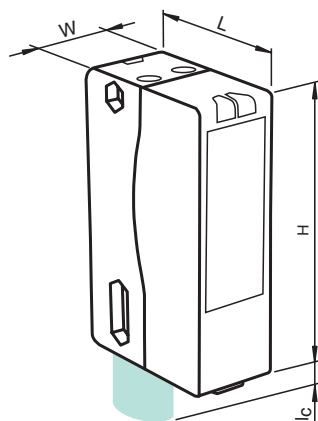
Common Technical Data

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	Light Type	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	Length L	CCC	EAC	UL	UKCA
RL28-8-H-400-FFP-RT/47/105	400 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-IR-Z/110/116	400 mm	Infrared LED	1 x push-pull	DC	10 V	30 V	Terminal compartment	54.3 mm				
RL28-8-H-400-IR-Z/47/116	400 mm	Infrared LED	PNP	DC	10 V	30 V	Terminal compartment	54.3 mm				
RL28-8-H-400-IR-Z/49/116	400 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	54.3 mm				
RL28-8-H-400-IR/105/110	400 mm	Infrared LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-IR/47/105	400 mm	Infrared LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-IR/49/105	400 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-IR/49/115	400 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-400-RT-Z/110/116	400 mm	Red LED	1 x push-pull	DC	10 V	30 V	Terminal compartment	54.3 mm				
RL28-8-H-400-RT-Z/49/116	400 mm	Red LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	54.3 mm				
RL28-8-H-400-RT/105/110	400 mm	Red LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-RT/47/105	400 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-RT/47/115	400 mm	Red LED	PNP	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-400-RT/47/73c	400 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-RT/49/105	400 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-400-RT/49/115	400 mm	Red LED	PNP/NPN	DC	10 V	30 V	Fixed cable	54.3 mm				
RLK28-8-H-400-IR-Z/31/116	400 mm	Infrared LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm				
RLK28-8-H-400-RT-Z/31/116	400 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm				
RL28-8-H-700-IR-Z/47/116	700 mm	Infrared LED	PNP	DC	10 V	30 V	Terminal compartment	65.5 mm				
RL28-8-H-700-IR-Z/49/116	700 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	65.5 mm				
RL28-8-H-700-IR/105/110	700 mm	Infrared LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-IR/110/115	700 mm	Infrared LED	1 x push-pull	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-700-IR/47/105	700 mm	Infrared LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-IR/47/105/106	700 mm	Infrared LED	PNP	DC	19.2 V	28.8 V	M12 connector plug	54.3 mm				
RL28-8-H-700-IR/47/115	700 mm	Infrared LED	PNP	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-700-IR/47/74	700 mm	Infrared LED	PNP	DC	10 V	30 V	M18 connector plug	54.3 mm				
RL28-8-H-700-IR/49/105	700 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-IR/49/115	700 mm	Infrared LED	PNP/NPN	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-700-RT-Z/47/112	700 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	65.5 mm				
RL28-8-H-700-RT-Z/47/116	700 mm	Red LED	PNP	DC	10 V	30 V	Terminal compartment	65.5 mm				
RL28-8-H-700-RT-Z/49/116	700 mm	Red LED	PNP/NPN	DC	10 V	30 V	Terminal compartment	65.5 mm				
RL28-8-H-700-RT/105/110	700 mm	Red LED	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-RT/47/105	700 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-RT/47/115	700 mm	Red LED	PNP	DC	10 V	30 V	Fixed cable	54.3 mm				
RL28-8-H-700-RT/47/73c	700 mm	Red LED	PNP	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-RT/47/74	700 mm	Red LED	PNP	DC	10 V	30 V	M18 connector plug	54.3 mm				
RL28-8-H-700-RT/49/105	700 mm	Red LED	PNP/NPN	DC	10 V	30 V	M12 connector plug	54.3 mm				
RL28-8-H-700-RT/49/115	700 mm	Red LED	PNP/NPN	DC	10 V	30 V	Fixed cable	54.3 mm				
RLK28-8-H-700-IR-Z/31/116	700 mm	Infrared LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm				
RLK28-8-H-700-RT-Z/31/116	700 mm	Red LED	Relay	AC/DC	12 V	240 V	Terminal compartment	65.5 mm				
RL28-8-H-1500-LAS/105/110	1500 mm	Red laser diode	1 x push-pull	DC	10 V	30 V	M12 connector plug	54.3 mm				

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



Accessories

OMH-05	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-RL28-C	Protective cover for protection against welding beads
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL29 Series

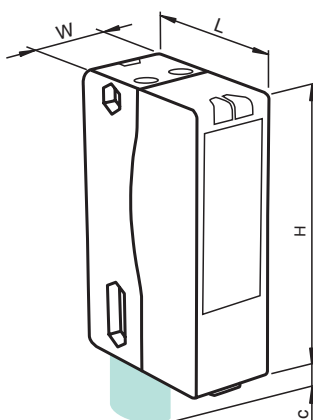


Common Technical Data

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

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	Operating Elements	Type of Output	Type of Voltage	Connection Type	Length L	CCC	UL	UKCA
RL29-8-H-1200-RT/115/136	Triangulation sensor with background suppression	1200 mm	Potentiometer	2 x push-pull	DC	Fixed cable	54.3 mm	■	■	■
RL29-8-H-1200-RT/115b/136	Triangulation sensor with background suppression	1200 mm	Potentiometer	2 x push-pull	DC	Fixed cable with M12 plug	54.3 mm	■	■	■
RL29-8-H-1200-RT/59/73c/136	Triangulation sensor with background suppression	1200 mm	Potentiometer	2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-8-H-1200-RT/73c/136	Triangulation sensor with background suppression	1200 mm	Potentiometer	2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-8-2000/115b/136	Diffuse mode sensor, energetic	2000 mm	Potentiometer	2 x push-pull	DC	Fixed cable with M12 plug	54.3 mm	■	■	■
RL29-8-2000/59/73c/136	Diffuse mode sensor, energetic	2000 mm	Potentiometer	2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-8-2000/73c/136	Diffuse mode sensor, energetic	2000 mm	Potentiometer	2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-55-V/115b/136	Retroreflective sensor with polarization filter	6000 mm		2 x push-pull	DC	Fixed cable with M12 plug	54.3 mm	■	■	■
RL29-55-V/25/73c/136	Retroreflective sensor with polarization filter	6000 mm		2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-55-V/73c/136	Retroreflective sensor with polarization filter	6000 mm		2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-55/115b/136	Retroreflective sensor with polarization filter	7000 mm		2 x push-pull	DC	Fixed cable with M12 plug	54.3 mm	■	■	■
RL29-55/25/73c/136	Retroreflective sensor with polarization filter	7000 mm		2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RL29-55/73c/136	Retroreflective sensor with polarization filter	7000 mm		2 x push-pull	DC	M12 connector plug	54.3 mm	■	■	■
RLK29-55/25/116	Retroreflective sensor with polarization filter	12,000 mm		Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■
RLK29-55/25/116-Set	Retroreflective sensor with polarization filter	12,000 mm		Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■
RLK29-55/59/116	Retroreflective sensor with polarization filter	12,000 mm		Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■
RLK29-55/59/116-Set	Retroreflective sensor with polarization filter	12,000 mm		Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■
LA29/LK29-Z-F1/31/116-SET	Thru-beam sensor	65,000 mm	Potentiometer	Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■
LA29/LK29-Z-F2/31/116-SET	Thru-beam sensor	65,000 mm	Potentiometer	Relay	AC/DC	Terminal compartment	65.5 mm	■	■	■



Accessories

OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-05	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-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
REF-H160	Rectangular reflector, 60 mm x 18 mm, mounting holes
REF-H180	Rectangular reflector, 182 mm x 42 mm, mounting holes
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
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL31 Series Thru-Beam Sensors

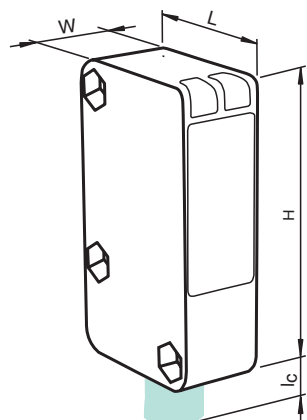


Common Technical Data

Function principle	Thru-beam sensor
Detection range	43,000 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	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	CCC	EAC	UL
LA31/LK31/16/25/31/115	Potentiometer	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	■
LA31/LK31/25/31/115		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	■
LA31/LK31/25/31/115 SET		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	■
LA31/LK31/25/31/115 SET2		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	■
LA31/LK31/31/115		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	■
LD31/LV31/25/73c/76a/136		2 x push-pull	DC	10 V	30 V	M12 connector plug	■	■	■
LD31/LV31/73c/76a/136		2 x push-pull	DC	10 V	30 V	M12 connector plug	■	■	■
LD31/LV31/76a/115/136		2 x push-pull	DC	10 V	30 V	Fixed cable	■	■	■



Accessories

OMH-RL31-01	Mounting bracket
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
OMH-RL31-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL31 Series Retroreflective Sensors

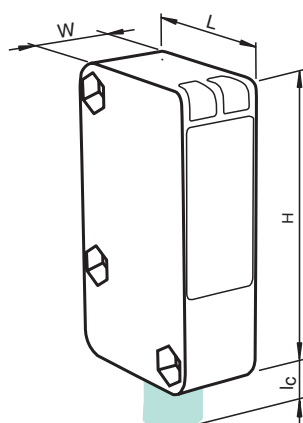


Common Technical Data

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	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	CCC	EAC	UL
RL31-54/115/136	with polarization filter	9000 mm	2 x push-pull	DC	10 V	30 V	Fixed cable			■
RL31-54/115/136-5M	with polarization filter	9000 mm	2 x push-pull	DC	10 V	30 V	Fixed cable			■
RL31-54/115b/136	with polarization filter	9000 mm	2 x push-pull	DC	10 V	30 V	Fixed cable with M12 plug			■
RL31-54/25/73c/136	with polarization filter	9000 mm	2 x push-pull	DC	10 V	30 V	M12 connector plug		■	■
RL31-54/73c/136	with polarization filter	9000 mm	2 x push-pull	DC	10 V	30 V	M12 connector plug		■	■
RLK31-54/25/31/115	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/25/31/115 SET	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/25/31/115 SET2	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/25/31/33/115-15M	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/25/31/33/115-15M SET	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/25/31/33/115-5M	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/31/115	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-54/31/33/115	with polarization filter	9000 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-6/25/31/115	without polarization filter	16,500 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-6/31/115	without polarization filter	16,500 mm	Relay	AC/DC	24 V	240 V	Fixed cable	■	■	



Accessories

OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-RL31-01	Mounting bracket
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
OMH-RL31-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 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-C110-2	Round reflector $\varnothing$ 84 mm, mounting hole in center
REF-H160	Rectangular reflector, 60 mm x 18 mm, mounting holes
REF-H180	Rectangular reflector, 182 mm x 42 mm, mounting holes
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
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
Weather cap for REF-C110-2	Weather cap for reflector series

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

RL31 Series

Diffuse Mode Sensors

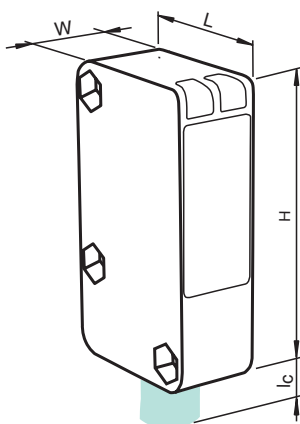


Common Technical Data

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	Light Type	Interface	Type of Output	Type of Voltage	UB (Min)	UB (Max)	Connection Type	CCC	EAC	UL
RL31-8-H-800-IR/73c/136	with background suppression	800 mm	Infrared LED		2 x push-pull	DC	10 V	30 V	M12 connector plug			■
RL31-8-H-800-RT-IO/59/115/136	with measurement core	800 mm	Red LED	IO-Link	2 x push-pull	DC	10 V	30 V	Fixed cable			■
RL31-8-H-800-RT-IO/59/73c/136	with measurement core	800 mm	Red LED	IO-Link	2 x push-pull	DC	10 V	30 V	M12 connector plug			■
RL31-8-H-800-RT/115/136	with background suppression	800 mm	Red LED		2 x push-pull	DC	10 V	30 V	Fixed cable			■
RL31-8-H-800-RT/73c/136	with background suppression	800 mm	Red LED		2 x push-pull	DC	10 V	30 V	M12 connector plug		■	■
RLK31-8-1200-RT/31/115	energetic	1200 mm	Red LED		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-8-1200-RT/31/59/115	energetic	1200 mm	Red LED		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RL31-8-1200-RT/59/73c/136	energetic	1200 mm	Red LED		2 x push-pull	DC	10 V	30 V	M12 connector plug			■
RL31-8-1200-RT/73c/136	energetic	1200 mm	Red LED		2 x push-pull	DC	10 V	30 V	M12 connector plug		■	■
RL31-8-2500-IR/115/136	energetic	2500 mm	Infrared LED		2 x push-pull	DC	10 V	30 V	Fixed cable			■
RL31-8-2500-IR/59/73c/136	energetic	2500 mm	Infrared LED		2 x push-pull	DC	10 V	30 V	M12 connector plug			■
RL31-8-2500-IR/73c/136	energetic	2500 mm	Infrared LED		2 x push-pull	DC	10 V	30 V	M12 connector plug		■	■
RLK31-8-2500-IR-3953/31	energetic	2500 mm	Infrared LED		Relay	AC/DC	24 V	240 V	Fixed cable			■
RLK31-8-2500-IR/31/115	energetic	2500 mm	Infrared LED		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-8-2500-IR/31/33/115-5M	energetic	2500 mm	Infrared LED		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	
RLK31-8-2500-IR/31/59/115	energetic	2500 mm	Infrared LED		Relay	AC/DC	24 V	240 V	Fixed cable	■	■	



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-RL31-01	Mounting bracket
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
OMH-RL31-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

MLV41 Series Retroreflective Sensors

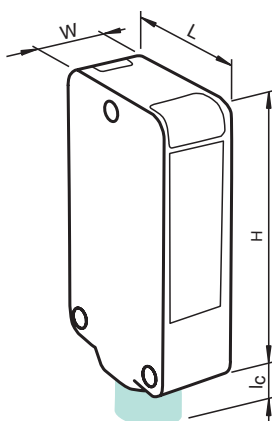


Common Technical Data

Light type	Red LED
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Interface	Operating Elements	Type of Output	Connection Type
MLV41-54-G-IO/25/92/136	for glass detection	4000 mm	IO-Link		2 x push-pull	M12 connector plug
MLV41-54-G-IO/102/123/124/126g	for glass detection	4000 mm		Potentiometer	NPN	M12 connector plug
MLV41-54-G/25/115/123/136	for glass detection	4000 mm			2 x push-pull	Fixed cable
MLV41-54-G/25/123/124/136	for glass detection	4000 mm			2 x push-pull	M12 connector plug
MLV41-54-G/25/70/123/136	for glass detection	4000 mm			2 x push-pull	M9 connector plug
MLV41-54-G/25/76a/124/136	for glass detection	4000 mm			2 x push-pull	M12 connector plug
MLV41-54-G/25/95/136	for glass detection	4000 mm			2 x push-pull	M8 connector plug
MLV41-54-G/82b/103/123/124	for glass detection	4000 mm		Potentiometer	PNP	M12 connector plug
MLV41-54-G/98/110	for glass detection	4000 mm		Potentiometer	1 x push-pull	M8 connector plug
MLV41-55-IO/98/103	with polarization filter	7000 mm	IO-Link		PNP	M8 connector plug
MLV41-55-IO/92/136	with polarization filter	8000 mm	IO-Link		2 x push-pull	M12 connector plug
MLV41-55-IO/95/136	with polarization filter	8000 mm	IO-Link		2 x push-pull	M8 connector plug
MLV41-55/25/115/136	with polarization filter	8000 mm			2 x push-pull	Fixed cable
MLV41-55/25/70/136	with polarization filter	8000 mm			2 x push-pull	M9 connector plug
MLV41-55/25/92/136	with polarization filter	8000 mm			2 x push-pull	M12 connector plug
MLV41-55/25/95/136	with polarization filter	8000 mm			2 x push-pull	M8 connector plug
MLV41-55/40a/82b/92/103	with polarization filter	8000 mm		Potentiometer	PNP	M12 connector plug
MLV41-55/40a/92/102/126b	with polarization filter	8000 mm		Potentiometer	NPN	M12 connector plug
MLV41-6-IO/92/136	without polarization filter	9500 mm	IO-Link		2 x push-pull	M12 connector plug
MLV41-6-IO/95/136	without polarization filter	9500 mm	IO-Link		2 x push-pull	M8 connector plug
MLV41-6-IO/98/103	without polarization filter	9500 mm	IO-Link		PNP	M8 connector plug
MLV41-6/25/115/136	without polarization filter	9500 mm			2 x push-pull	Fixed cable
MLV41-6/25/70/136	without polarization filter	9500 mm			2 x push-pull	M9 connector plug
MLV41-6/25/82a/95/103	without polarization filter	9500 mm			PNP	M8 connector plug
MLV41-6/25/92/136	without polarization filter	9500 mm			2 x push-pull	M12 connector plug
MLV41-6/25/95/136	without polarization filter	9500 mm			2 x push-pull	M8 connector plug
MLV41-6/82b/92/103	without polarization filter	9500 mm			PNP	M12 connector plug
MLV41-6/92/102/126b	without polarization filter	9500 mm			NPN	M12 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-09	Mounting bracket for MLV41 series sensors for mounting on M12 round bar
OMH-40	Mounting bracket
ORR50G	Rectangular reflector, 50.9 mm x 60.9 mm, mounting holes, retaining tab and polarization filter

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

MLV41 Series Diffuse Mode Sensors

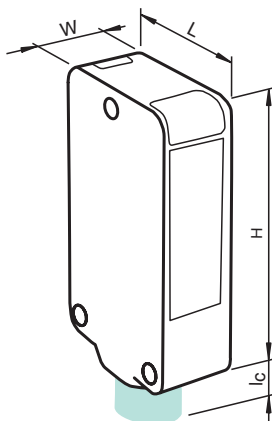


Common Technical Data

Function principle	Triangulation sensor with background suppression
Detection range	350 mm
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number	Light Type	Type of Output	Connection Type
MLV41-8-H-350-IR/25/98/110	Infrared LED	1 x push-pull	M8 connector plug
MLV41-8-H-350-IR/59/115/136	Infrared LED	2 x push-pull	Fixed cable
MLV41-8-H-350-IR/59/115b/136	Infrared LED	2 x push-pull	Fixed cable with M12 plug
MLV41-8-H-350-IR/59/92/136	Infrared LED	2 x push-pull	M12 connector plug
MLV41-8-H-350-IR/59/95/136	Infrared LED	2 x push-pull	M8 connector plug
MLV41-8-H-350-RT/25/115/136	Red LED	2 x push-pull	Fixed cable
MLV41-8-H-350-RT/25/92/136	Red LED	2 x push-pull	M12 connector plug
MLV41-8-H-350-RT/40a/98/110	Red LED	1 x push-pull	M8 connector plug
MLV41-8-H-350-RT/59/115/136	Red LED	2 x push-pull	Fixed cable
MLV41-8-H-350-RT/59/115b/136	Red LED	2 x push-pull	Fixed cable with M12 plug
MLV41-8-H-350-RT/59/70/136	Red LED	2 x push-pull	M9 connector plug
MLV41-8-H-350-RT/59/71/136	Red LED	2 x push-pull	M9 connector plug
MLV41-8-H-350-RT/59/92/136	Red LED	2 x push-pull	M12 connector plug
MLV41-8-H-350-RT/59/95/136	Red LED	2 x push-pull	M8 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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

R300 Series

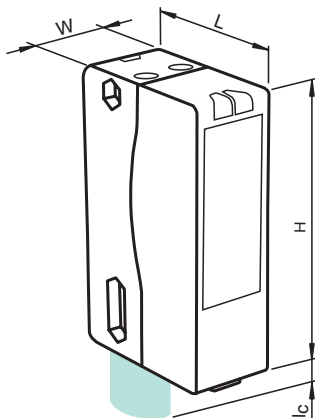


Common Technical Data

Light type	Red LED
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Operating Elements	Type of Output
OBR50M-R300-2P1-V1	Distance sensor	50,000 mm	Push-button	2 x push-pull
OBR50M-R300-2PP-V1	Distance sensor	50,000 mm	Push-button	2 x push-pull
OMR50M-R300-IEP-V1	Distance sensor	50,000 mm	Push-button	1 x push-pull, 1 x analog
OMR50M-R300-UEP-V1	Distance sensor	50,000 mm	Push-button	1 x push-pull, 1 x analog
OQR50M-R300-2EP-V1	Distance sensor	50,000 mm	Push-button	2 x push-pull
OBD8000-R300-2P1-V1-L	Diffuse mode sensor, energetic	8000 mm	Potentiometer	2 x push-pull
OBD8000-R300-2PP-V1-L	Diffuse mode sensor, energetic	8000 mm	Potentiometer	2 x push-pull
OMD8000-R300-IEP-V1-L	Distance sensor	8000 mm	Push-button	1 x push-pull, 1 x analog
OMD8000-R300-UEP-V1-L	Distance sensor	8000 mm	Push-button	1 x push-pull, 1 x analog
OQD8000-R300-2EP-V1-L	Distance sensor	8000 mm	Push-button	2 x push-pull



Accessories

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
OMH-K03	Mounting clamp for sensors with dovetail
OMH-RLK29-HW	Mounting bracket for rear wall mounting
OMH-VDM28-01	Metal enclosure for inserting protective panes or diaphragms
OMH-VDM28-02	Mounting and fine adjustment device for sensors from the 28 series
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML29 Series



Common Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Type of voltage	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	Type of Output	UB (Min)	UB (Max)	Connection Type	EAC
ML29T-P/32/59/115 100 mm	2500 mm	PNP	10 V	32 V	Fixed cable	
ML29-2P/25/103/143	5000 mm	PNP	11 V	30 V	Other	
ML29-P/25/102/115	6000 mm	NPN	11 V	30 V	Fixed cable	
ML29-P/25/102/143	6000 mm	NPN	11 V	30 V	Other	
ML29-P/25/103/115	6000 mm	PNP	11 V	30 V	Fixed cable	■
ML29-P/25/103/143	6000 mm	PNP	11 V	30 V	Other	
ML29-P/59/102/115	6000 mm	NPN	11 V	30 V	Fixed cable	
ML29-P/59/102/143	6000 mm	NPN	11 V	30 V	Other	
ML29-P/59/103/115	6000 mm	PNP	11 V	30 V	Fixed cable	
ML29-P/59/103/143	6000 mm	PNP	11 V	30 V	Other	

Accessories

ML29 Front Plate	Front plate for ML29 series thru-beam sensors
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Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML100 Series Thru-Beam Sensors

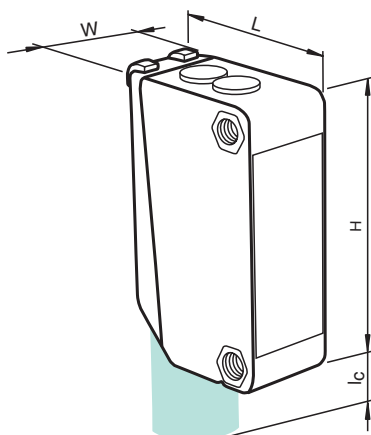


Common Technical Data

Function principle	Thru-beam sensor
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type	e1
M100/MV100-RT/76a/103/115	10,000 mm	Red LED	Potentiometer	PNP	Fixed cable	
M100/MV100-RT/76a/103/115a	10,000 mm	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	
M100/MV100-RT/76a/95/103	10,000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/76a/98/103	10,000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/76b/102/115	10,000 mm	Red LED	Potentiometer	NPN	Fixed cable	
M100/MV100-RT/76b/102/115a	10,000 mm	Red LED	Potentiometer	NPN	Fixed cable with M8 plug	
M100/MV100-RT/76b/95/102	10,000 mm	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-RT/76b/98/102	10,000 mm	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-IR/76a/103/115	15,000 mm	Infrared LED	Potentiometer	PNP	Fixed cable	
M100/MV100-IR/76a/95/103	15,000 mm	Infrared LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-IR/76b/102/115	15,000 mm	Infrared LED	Potentiometer	NPN	Fixed cable	
M100/MV100-IR/95/120/154	15,000 mm	Infrared LED		PNP	M8 connector plug	■
M100/MV100-RT/35/102/115/154	20,000 mm	Red LED		NPN	Fixed cable	
M100/MV100-RT/35/103/115/154	20,000 mm	Red LED		PNP	Fixed cable	
M100/MV100-RT/35/76a/103/115	20,000 mm	Red LED	Potentiometer	PNP	Fixed cable	
M100/MV100-RT/35/76a/95/103	20,000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/35/76a/98/103	20,000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
M100/MV100-RT/35/76b/102/115	20,000 mm	Red LED	Potentiometer	NPN	Fixed cable	
M100/MV100-RT/35/76b/95/102	20,000 mm	Red LED	Potentiometer	NPN	M8 connector plug	
M100/MV100-RT/35/76b/98/102	20,000 mm	Red LED	Potentiometer	NPN	M8 connector plug	



Accessories

OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid for sensors in the ML100 series
OMH-ML100-01	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-02	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-04	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-05	Mounting aid for sensors in the ML100 series, 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
OMH-ML100-S2	Mounting aid for sensors in the ML100 series, mounting bracket
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML100 Series Retroreflective Sensors



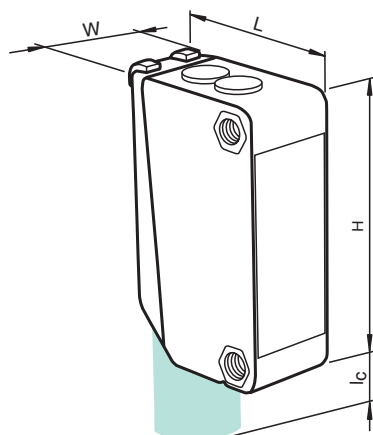
Common Technical Data

Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Type of Output	Connection Type	T
ML100-55-G/102/115	with polarization filter	2500 mm	Red LED	Potentiometer	NPN	Fixed cable	
ML100-55-G/103/115	with polarization filter	2500 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-55-G/95/102	with polarization filter	2500 mm	Red LED	Potentiometer	NPN	M8 connector plug	
ML100-55-G/95/103	with polarization filter	2500 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-54-F/102/115	with polarization filter	2700 mm	Red LED	Potentiometer	NPN	Fixed cable	
ML100-54-F/103/115	with polarization filter	2700 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-54-F/103/115b	with polarization filter	2700 mm	Red LED	Potentiometer	PNP	Fixed cable with M12 plug	
ML100-54-F/25/102/115/154	with polarization filter	2700 mm	Red LED		NPN	Fixed cable	
ML100-54-F/25/103/115/154	with polarization filter	2700 mm	Red LED		PNP	Fixed cable	
ML100-54-F/25/103/115a/154	with polarization filter	2700 mm	Red LED		PNP	Fixed cable with M8 plug	
ML100-54-F/25/103/115b/154	with polarization filter	2700 mm	Red LED		PNP	Fixed cable with M12 plug	
ML100-54-F/25/95/102/154	with polarization filter	2700 mm	Red LED		NPN	M8 connector plug	
ML100-54-F/25/95/103/154	with polarization filter	2700 mm	Red LED		PNP	M8 connector plug	
ML100-54-F/95/102	with polarization filter	2700 mm	Red LED	Potentiometer	NPN	M8 connector plug	
ML100-54-F/95/103	with polarization filter	2700 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-54/102/115	with polarization filter	3500 mm	Red LED	Potentiometer	NPN	Fixed cable	
ML100-54/103/115	with polarization filter	3500 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-54/59/82a/103/115a/154	with polarization filter	3500 mm	Red LED		PNP	Fixed cable with M8 plug	
ML100-54/95/102	with polarization filter	3500 mm	Red LED	Potentiometer	NPN	M8 connector plug	
ML100-54/95/103	with polarization filter	3500 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-55/102/115	with polarization filter	5000 mm	Red LED	Potentiometer	NPN	Fixed cable	
ML100-55/103/115	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-55/103/115a	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	
ML100-55/103/115b	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M12 plug	
ML100-55/115b/120	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M12 plug	
ML100-55/25/103/115b/154	with polarization filter	5000 mm	Red LED		PNP	Fixed cable with M12 plug	
ML100-55/25/115b/120/154	with polarization filter	5000 mm	Red LED		PNP	Fixed cable with M12 plug	
ML100-55/25/95/103/154	with polarization filter	5000 mm	Red LED		PNP	M8 connector plug	
ML100-55/33/103/115-5M	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-55/33/103/115a	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	
ML100-55/59/103/115	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable	
ML100-55/59/103/115a/154	with polarization filter	5000 mm	Red LED		PNP	Fixed cable with M8 plug	
ML100-55/59/103/115b	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M12 plug	
ML100-55/59/95/103	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-55/59/95/103/154	with polarization filter	5000 mm	Red LED		PNP	M8 connector plug	
ML100-55/59/98/103/154	with polarization filter	5000 mm	Red LED		PNP	M8 connector plug	
ML100-55/82a/103/115a	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	Fixed cable with M8 plug	
ML100-55/95/102	with polarization filter	5000 mm	Red LED	Potentiometer	NPN	M8 connector plug	
ML100-55/95/103	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-55/98/102	with polarization filter	5000 mm	Red LED	Potentiometer	NPN	M8 connector plug	
ML100-55/98/103	with polarization filter	5000 mm	Red LED	Potentiometer	PNP	M8 connector plug	
ML100-6-IR/102/115	without polarization filter	5000 mm	Infrared LED	Potentiometer	NPN	Fixed cable	■

Model Number	Function Principle	Detection Range	Light Type	Operating Elements	Type of Output	Connection Type	
ML100-6-IR/103/115	without polarization filter	5000 mm	Infrared LED	Potentiometer	PNP	Fixed cable	■
ML100-6-IR/33/102/115	without polarization filter	5000 mm	Infrared LED	Potentiometer	NPN	Fixed cable	■
ML100-6-IR/95/102	without polarization filter	5000 mm	Infrared LED	Potentiometer	NPN	M8 connector plug	■
ML100-6-IR/95/103	without polarization filter	5000 mm	Infrared LED	Potentiometer	PNP	M8 connector plug	■



Accessories

OFR-100/100	Reflective tape, 100 mm x 100 mm
OFR-70-2	Reflective tape, 70 mm x 70 mm
OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid for sensors in the ML100 series
OMH-ML100-01	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-02	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-04	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-05	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-08	Mounting aid for sensors in the ML100 series, snap-on mounting
OMH-ML100-09	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-S1	Mounting bracket
OMH-ML100-S2	Mounting aid for sensors in the ML100 series, mounting bracket
REF-C110-2	Round reflector $\varnothing$ 84 mm, mounting hole in center
REF-H33	Reflector with screw mounting
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
REF-MH23-2	Rectangular reflector with microstructure, 23 mm x 14 mm, diagonal mounting hole
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML100 Series Diffuse Mode Sensors



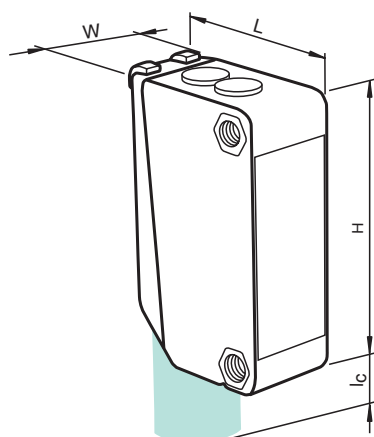
Common Technical Data

Operating elements	Potentiometer
Type of voltage	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	Light Type	Type of Output	Connection Type	EAC	UKCA
ML100-8-HW-350-RT/95/103	with background evaluation	350 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-H-100-RT/102/115	with background suppression	100 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-H-100-RT/103/115	with background suppression	100 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-H-100-RT/103/115a	with background suppression	100 mm	Red LED	PNP	Fixed cable with M8 plug	■	■
ML100-8-H-100-RT/95/102	with background suppression	100 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-H-100-RT/95/103	with background suppression	100 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-H-100/115/120/162	with background suppression	100 mm	Red LED	PNP	Fixed cable		
ML100-8-H-100/115/127/162	with background suppression	100 mm	Red LED	NPN	Fixed cable		
ML100-8-H-100/95/120/162	with background suppression	100 mm	Red LED	PNP	M8 connector plug		
ML100-8-H-100/95/127/162	with background suppression	100 mm	Red LED	NPN	M8 connector plug		
ML100-8-HGU-100-RT/102/115/162	with convergent beam	100 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-HGU-100-RT/103/115/162	with convergent beam	100 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-HGU-100-RT/95/102/162	with convergent beam	100 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-HGU-100-RT/95/103/162	with convergent beam	100 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-H-200-IR/102/115	with background suppression	200 mm	Infrared LED	NPN	Fixed cable	■	■
ML100-8-H-200-IR/103/115	with background suppression	200 mm	Infrared LED	PNP	Fixed cable	■	■
ML100-8-H-200-IR/95/102	with background suppression	200 mm	Infrared LED	NPN	M8 connector plug	■	■
ML100-8-H-200-IR/95/103	with background suppression	200 mm	Infrared LED	PNP	M8 connector plug	■	■
ML100-8-W-200-RT/95/103	Diffuse mode sensor, energetic	200 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-W-200-RT/102/115	Diffuse mode sensor, energetic	200 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-W-200-RT/102/115b	Diffuse mode sensor, energetic	200 mm	Red LED	NPN	Fixed cable with M12 plug	■	■
ML100-8-W-200-RT/103/115	Diffuse mode sensor, energetic	200 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-W-200-RT/103/115b	Diffuse mode sensor, energetic	200 mm	Red LED	PNP	Fixed cable with M12 plug	■	■
ML100-8-W-200-RT/95/102	Diffuse mode sensor, energetic	200 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-H-350-RT/102/115	with background suppression	350 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-H-350-RT/102/115a	with background suppression	350 mm	Red LED	NPN	Fixed cable with M8 plug	■	■
ML100-8-H-350-RT/103/115	with background suppression	350 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-H-350-RT/103/115a	with background suppression	350 mm	Red LED	PNP	Fixed cable with M8 plug	■	■
ML100-8-H-350-RT/103/115b	with background suppression	350 mm	Red LED	PNP	Fixed cable with M12 plug	■	■
ML100-8-H-350-RT/33/103/115a	with background suppression	350 mm	Red LED	PNP	Fixed cable with M8 plug	■	■
ML100-8-H-350-RT/33/103/115b	with background suppression	350 mm	Red LED	PNP	Fixed cable with M12 plug	■	■
ML100-8-H-350-RT/95/102	with background suppression	350 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-H-350-RT/95/103	with background suppression	350 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-H-350-RT/98/102	with background suppression	350 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-H-350-RT/98/103	with background suppression	350 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-HW-350-RT/102/115	with background evaluation	350 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-HW-350-RT/103/115	with background evaluation	350 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-HW-350-RT/95/102	with background evaluation	350 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-1000-RT/102/115	Diffuse mode sensor, energetic	1000 mm	Red LED	NPN	Fixed cable	■	■
ML100-8-1000-RT/103/115	Diffuse mode sensor, energetic	1000 mm	Red LED	PNP	Fixed cable	■	■
ML100-8-1000-RT/103/115a-1M	Diffuse mode sensor, energetic	1000 mm	Red LED	PNP	Fixed cable with M8 plug	■	■

Model Number	Function Principle	Detection Range	Light Type	Type of Output	Connection Type	EAC	UKCA
ML100-8-1000-RT/103/115b	Diffuse mode sensor, energetic	1000 mm	Red LED	PNP	Fixed cable with M12 plug	■	■
ML100-8-1000-RT/95/102	Diffuse mode sensor, energetic	1000 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-1000-RT/95/103	Diffuse mode sensor, energetic	1000 mm	Red LED	PNP	M8 connector plug	■	■
ML100-8-1000-RT/98/102	Diffuse mode sensor, energetic	1000 mm	Red LED	NPN	M8 connector plug	■	■
ML100-8-1000-RT/98/103	Diffuse mode sensor, energetic	1000 mm	Red LED	PNP	M8 connector plug	■	■



Accessories

OMH-10	Mounting aid
OMH-F10-ML100	Mounting aid for sensors in the ML100 series
OMH-ML100-01	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-02	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-03	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-ML100-04	Mounting aid for sensors in the ML100 series, mounting bracket
OMH-ML100-05	Mounting aid for sensors in the ML100 series, 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
OMH-ML100-S2	Mounting aid for sensors in the ML100 series, mounting bracket
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML17 Series

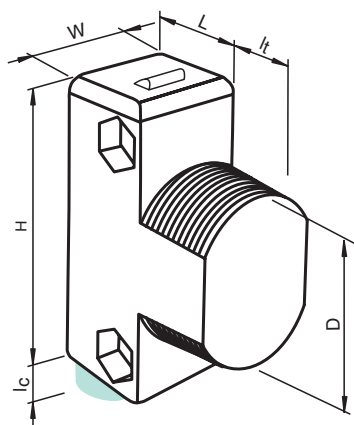


Common Technical Data

Function principle	Thru-beam sensor
Detection range	15,000 mm
Light type	Infrared LED
Type of voltage	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	Type of Output	Connection Type
MD17/115		Fixed cable
MD17/115b		Fixed cable with M12 plug
MD17/143		M8 connector plug
MD17/73		M12 connector plug
MV17/115/136	2 x push-pull	Fixed cable
MV17/115b/136	2 x push-pull	Fixed cable with M12 plug
MV17/136/143	2 x push-pull	M8 connector plug
MV17/73/136	2 x push-pull	M12 connector plug



Accessories

OMH-ML17	Mounting bracket
OMH-ML17-1	Mounting bracket
V1-G-BK2M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-W-BK2M-PUR-U	Single-ended female cordset, M12, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-W-BK5M-PUR-U	Single-ended female cordset, M12, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V31-GM-BK2M-PUR-U	Single-ended female cordset, straight, A-coded, 4-pin, PUR cable black, UL-approved, suitable for drag chains, torsion-proof
V31-GM-BK5M-PUR-U	Single-ended female cordset, straight, A-coded, 4-pin, PUR cable black, UL-approved, suitable for drag chains, torsion-proof
V31-WM-BK2M-PUR-U	Single-ended female cordset, angled, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V31-WM-BK5M-PUR-U	Single-ended female cordset, angled, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML17 Series Retroreflective Sensors



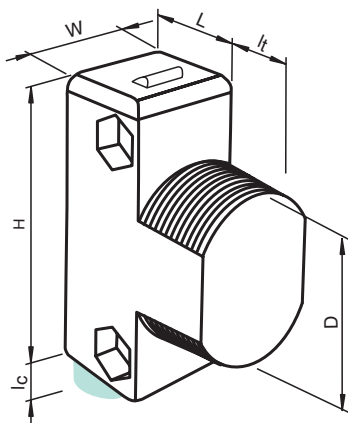
Common Technical Data

Function principle	Retroreflective sensor with polarization filter
Detection range	3500 mm
Light type	Red LED
Type of output	2 x push-pull
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number Connection Type

ML17-54/115/136	Fixed cable
ML17-54/115b/136	Fixed cable with M12 plug
ML17-54/136/143	M8 connector plug
ML17-54/73/136	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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

ML17 Series Diffuse Mode Sensors

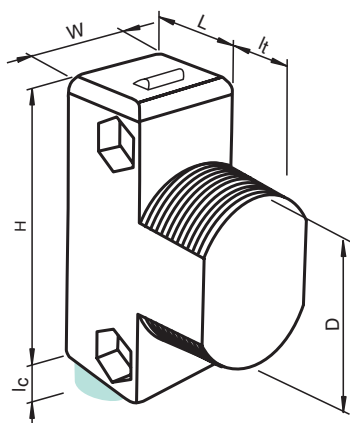


Common Technical Data

Type of output	2 x push-pull
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	Light Type	Operating Elements	Connection Type
ML17-8-450/115/136	energetic	450 mm	Infrared LED	Potentiometer	Fixed cable
ML17-8-450/115b/136	energetic	450 mm	Infrared LED	Potentiometer	Fixed cable with M12 plug
ML17-8-450/136/143	energetic	450 mm	Infrared LED	Potentiometer	M8 connector plug
ML17-8-450/73/136	energetic	450 mm	Infrared LED	Potentiometer	M12 connector plug
ML17-8-H-50-RT/115/136	with background suppression	50 mm	Red LED		Fixed cable
ML17-8-H-50-RT/115b/136	with background suppression	50 mm	Red LED		Fixed cable with M12 plug
ML17-8-H-50-RT/136/143	with background suppression	50 mm	Red LED		M8 connector plug
ML17-8-H-50-RT/73/136	with background suppression	50 mm	Red LED		M12 connector plug
ML17-8-H-100-RT/115/136	with background suppression	100 mm	Red LED		Fixed cable
ML17-8-H-100-RT/115b/136	with background suppression	100 mm	Red LED		Fixed cable with M12 plug
ML17-8-H-100-RT/136/143	with background suppression	100 mm	Red LED		M8 connector plug
ML17-8-H-100-RT/73/136	with background suppression	100 mm	Red LED		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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

BB10 Series

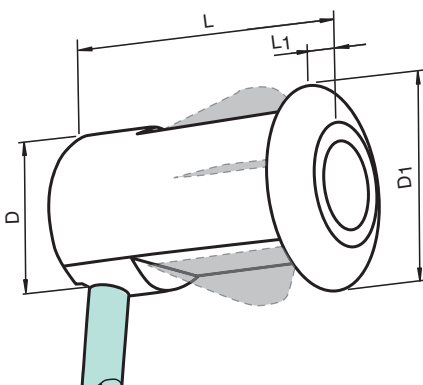


Common Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Type of voltage	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	Type of Output	Connection Type	e1
BB10-P-F1/25/33/35/102/115-7m	3000 mm	NPN	Fixed cable	■
BB10-P-F1/25/33/35/103/115-7m	3000 mm	PNP	Fixed cable	■
BB10-P-F1/33/35/59/102/115-7m	3000 mm	NPN	Fixed cable	■
BB10-P-F1/33/35/59/103/115-7m	3000 mm	PNP	Fixed cable	■
BB10-P-F2/25/33/35/102/115-7m	3000 mm	NPN	Fixed cable	■
BB10-P-F2/25/33/35/103/115-7m	3000 mm	PNP	Fixed cable	■
BB10-P-F2/33/35/59/102/115-7m	3000 mm	NPN	Fixed cable	■
BB10-P-F2/33/35/59/103/115-7m	3000 mm	PNP	Fixed cable	■
BB10-P/25/33/76b/102/115-7m	6000 mm	NPN	Fixed cable	■
BB10-P/25/33/76b/102/115e	6000 mm	NPN	Other	■
BB10-P/25/33/76b/103/115-10m	6000 mm	PNP	Fixed cable	■
BB10-P/25/33/76b/103/115-7m	6000 mm	PNP	Fixed cable	■
BB10-P/25/33/76b/103/115a	6000 mm	PNP	Fixed cable with M8 plug	■
BB10-P/25/33/76b/103/115e	6000 mm	PNP	Other	■
BB10-P/33/59/76b/102/115-7m	6000 mm	NPN	Fixed cable	■
BB10-P/33/59/76b/103/115-7m	6000 mm	PNP	Fixed cable	■



Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

12 mm Thread Series

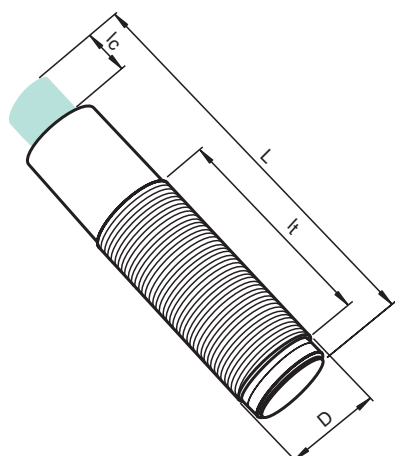


Common Technical Data

Light type	Red LED
Operating elements	Potentiometer
Type of voltage	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	Type of Output	Connection Type	Length L
OBD300-12GM40-E4	Diffuse mode sensor, energetic	300 mm	NPN	Fixed cable	45 mm
OBD300-12GM40-E4-V1	Diffuse mode sensor, energetic	300 mm	NPN	M12 connector plug	55 mm
OBD300-12GM40-E5	Diffuse mode sensor, energetic	300 mm	PNP	Fixed cable	45 mm
OBD300-12GM40-E5-V1	Diffuse mode sensor, energetic	300 mm	PNP	M12 connector plug	55 mm
OBR2500-12GM40-E5-V1	Retroreflective sensor with polarization filter	2500 mm	PNP	M12 connector plug	55 mm
OBR2500-12GM40-E4	Retroreflective sensor with polarization filter	2500 mm	NPN	Fixed cable	45 mm
OBR2500-12GM40-E4-V1	Retroreflective sensor with polarization filter	2500 mm	NPN	M12 connector plug	55 mm
OBR2500-12GM40-E5	Retroreflective sensor with polarization filter	2500 mm	PNP	Fixed cable	45 mm
OBE6000-12GM40-SE4	Thru-beam sensor	6000 mm	NPN	Fixed cable	45 mm
OBE6000-12GM40-SE4-V1	Thru-beam sensor	6000 mm	NPN	M12 connector plug	55 mm
OBE6000-12GM40-SE5	Thru-beam sensor	6000 mm	PNP	Fixed cable	45 mm
OBE6000-12GM40-SE5-V1	Thru-beam sensor	6000 mm	PNP	M12 connector plug	55 mm



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 5 mm ... 30 mm diameter
OFR-100/100	Reflective tape, 100 mm x 100 mm
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
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-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

18 mm Thread Series Thru-Beam Sensors

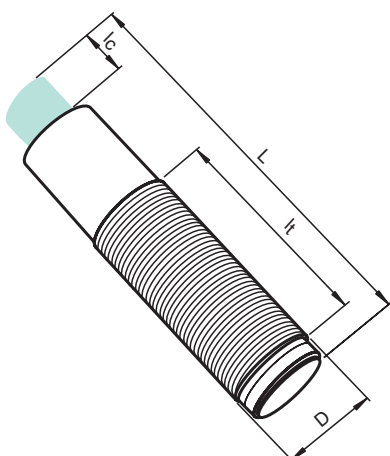


Common Technical Data

Function principle	Thru-beam sensor
Light type	Red LED
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing diameter D	18 mm
UL	■
UKCA	■

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

Model Number	Detection Range	Type of Output	Connection Type	Length L
OBE15M-18GK40A-SE0	15,000 mm	NPN	Fixed cable	53.4 mm
OBE15M-18GK40A-SE0-V1	15,000 mm	NPN	M12 connector plug	58.5 mm
OBE15M-18GK40A-SE2	15,000 mm	PNP	Fixed cable	53.4 mm
OBE15M-18GK40A-SE2-V1	15,000 mm	PNP	M12 connector plug	58.5 mm
OBE15M-18GM40A-SE0	15,000 mm	NPN	Fixed cable	53.4 mm
OBE15M-18GM40A-SE0-V1	15,000 mm	NPN	M12 connector plug	58.5 mm
OBE15M-18GM40A-SE2	15,000 mm	PNP	Fixed cable	53.4 mm
OBE15M-18GM40A-SE2-V1	15,000 mm	PNP	M12 connector plug	58.5 mm
OBE15M-18GM60A-SE4	15,000 mm	NPN	Fixed cable	73.4 mm
OBE15M-18GM60A-SE4-V1	15,000 mm	NPN	M12 connector plug	78.5 mm
OBE15M-18GM60A-SE5	15,000 mm	PNP	Fixed cable	73.4 mm
OBE15M-18GM60A-SE5-V1	15,000 mm	PNP	M12 connector plug	78.5 mm
OBE25M-18GK40-SE0	25,000 mm	NPN	Fixed cable	40 mm
OBE25M-18GK40-SE0-V1	25,000 mm	NPN	M12 connector plug	45.1 mm
OBE25M-18GK40-SE2	25,000 mm	PNP	Fixed cable	40 mm
OBE25M-18GK40-SE2-V1	25,000 mm	PNP	M12 connector plug	45.1 mm
OBE25M-18GM40-SE0	25,000 mm	NPN	Fixed cable	40 mm
OBE25M-18GM40-SE0-V1	25,000 mm	NPN	M12 connector plug	45.1 mm
OBE25M-18GM40-SE2	25,000 mm	PNP	Fixed cable	40 mm
OBE25M-18GM40-SE2-V1	25,000 mm	PNP	M12 connector plug	45.1 mm
OBE25M-18GM60-SE4	25,000 mm	NPN	Fixed cable	60 mm
OBE25M-18GM60-SE4-V1	25,000 mm	NPN	M12 connector plug	65.1 mm
OBE25M-18GM60-SE5	25,000 mm	PNP	Fixed cable	60 mm
OBE25M-18GM60-SE5-V1	25,000 mm	PNP	M12 connector plug	65.1 mm



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 5 mm ... 30 mm diameter
CPZ18B03	Mounting aid with swivel nut
OMH-04	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

18 mm Thread Series Retroreflective Sensors



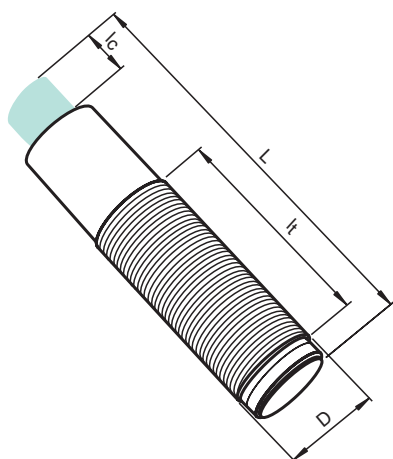
Common Technical Data

Light type	Red LED
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing diameter D	18 mm
UL	■
UKCA	■

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	Operating Elements	Type of Output	Connection Type	Length L
OBG3000-18GK40A-E0	for glass detection	3000 mm	Potentiometer	NPN	Fixed cable	53.4 mm
OBG3000-18GK40A-E0-V1	for glass detection	3000 mm	Potentiometer	NPN	M12 connector plug	58.5 mm
OBG3000-18GK40A-E2	for glass detection	3000 mm	Potentiometer	PNP	Fixed cable	53.4 mm
OBG3000-18GK40A-E2-V1	for glass detection	3000 mm	Potentiometer	PNP	M12 connector plug	58.5 mm
OBG3000-18GM40A-E0	for glass detection	3000 mm	Potentiometer	NPN	Fixed cable	53.4 mm
OBG3000-18GM40A-E0-V1	for glass detection	3000 mm	Potentiometer	NPN	M12 connector plug	58.5 mm
OBG3000-18GM40A-E2	for glass detection	3000 mm	Potentiometer	PNP	Fixed cable	53.4 mm
OBG3000-18GM40A-E2-V1	for glass detection	3000 mm	Potentiometer	PNP	M12 connector plug	58.5 mm
OBG3000-18GM60A-E4	for glass detection	3000 mm	Potentiometer	NPN	Fixed cable	73.4 mm
OBG3000-18GM60A-E4-V1	for glass detection	3000 mm	Potentiometer	NPN	M12 connector plug	78.5 mm
OBG3000-18GM60A-E5	for glass detection	3000 mm	Potentiometer	PNP	Fixed cable	73.4 mm
OBG3000-18GM60A-E5-V1	for glass detection	3000 mm	Potentiometer	PNP	M12 connector plug	78.5 mm
OBG3500-18GK40-E0	for glass detection	3500 mm	Potentiometer	NPN	Fixed cable	40 mm
OBG3500-18GK40-E0-V1	for glass detection	3500 mm	Potentiometer	NPN	M12 connector plug	45.1 mm
OBG3500-18GK40-E2	for glass detection	3500 mm	Potentiometer	PNP	Fixed cable	40 mm
OBG3500-18GK40-E2-V1	for glass detection	3500 mm	Potentiometer	PNP	M12 connector plug	45.1 mm
OBG3500-18GM40-E0	for glass detection	3500 mm	Potentiometer	NPN	Fixed cable	40 mm
OBG3500-18GM40-E0-V1	for glass detection	3500 mm	Potentiometer	NPN	M12 connector plug	45.1 mm
OBG3500-18GM40-E2	for glass detection	3500 mm	Potentiometer	PNP	Fixed cable	40 mm
OBG3500-18GM40-E2-V1	for glass detection	3500 mm	Potentiometer	PNP	M12 connector plug	45.1 mm
OBG3500-18GM60-E4	for glass detection	3500 mm	Potentiometer	NPN	Fixed cable	60 mm
OBG3500-18GM60-E4-V1	for glass detection	3500 mm	Potentiometer	NPN	M12 connector plug	65.1 mm
OBG3500-18GM60-E5	for glass detection	3500 mm	Potentiometer	PNP	Fixed cable	60 mm
OBG3500-18GM60-E5-V1	for glass detection	3500 mm	Potentiometer	PNP	M12 connector plug	65.1 mm
OBR5000-18GK40A-E0	with polarization filter	5000 mm		NPN	Fixed cable	53.4 mm
OBR5000-18GK40A-E0-V1	with polarization filter	5000 mm		NPN	M12 connector plug	58.5 mm
OBR5000-18GK40A-E2	with polarization filter	5000 mm		PNP	Fixed cable	53.4 mm
OBR5000-18GK40A-E2-V1	with polarization filter	5000 mm		PNP	M12 connector plug	58.5 mm
OBR5000-18GM40A-E0	with polarization filter	5000 mm		NPN	Fixed cable	53.4 mm
OBR5000-18GM40A-E0-V1	with polarization filter	5000 mm		NPN	M12 connector plug	58.5 mm
OBR5000-18GM40A-E2	with polarization filter	5000 mm		PNP	Fixed cable	53.4 mm
OBR5000-18GM40A-E2-V1	with polarization filter	5000 mm		PNP	M12 connector plug	58.5 mm
OBR5000-18GM60A-E4	with polarization filter	5000 mm		NPN	Fixed cable	73.4 mm
OBR5000-18GM60A-E4-V1	with polarization filter	5000 mm		NPN	M12 connector plug	78.5 mm
OBR5000-18GM60A-E5	with polarization filter	5000 mm		PNP	Fixed cable	73.4 mm
OBR5000-18GM60A-E5-V1	with polarization filter	5000 mm		PNP	M12 connector plug	78.5 mm
OBR5500-18GK40-E0	with polarization filter	5500 mm		NPN	Fixed cable	40 mm
OBR5500-18GK40-E0-V1	with polarization filter	5500 mm		NPN	M12 connector plug	45.1 mm
OBR5500-18GK40-E2	with polarization filter	5500 mm		PNP	Fixed cable	40 mm
OBR5500-18GK40-E2-V1	with polarization filter	5500 mm		PNP	M12 connector plug	45.1 mm
OBR5500-18GM40-E0	with polarization filter	5500 mm		NPN	Fixed cable	40 mm
OBR5500-18GM40-E0-V1	with polarization filter	5500 mm		NPN	M12 connector plug	45.1 mm

Model Number	Function Principle	Detection Range	Operating Elements	Type of Output	Connection Type	Length L
OBR5500-18GM40-E2	with polarization filter	5500 mm		PNP	Fixed cable	40 mm
OBR5500-18GM40-E2-V1	with polarization filter	5500 mm		PNP	M12 connector plug	45.1 mm
OBR5500-18GM60-E4	with polarization filter	5500 mm		NPN	Fixed cable	60 mm
OBR5500-18GM60-E4-V1	with polarization filter	5500 mm		NPN	M12 connector plug	65.1 mm
OBR5500-18GM60-E5	with polarization filter	5500 mm		PNP	Fixed cable	60 mm
OBR5500-18GM60-E5-V1	with polarization filter	5500 mm		PNP	M12 connector plug	65.1 mm



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 5 mm ... 30 mm diameter
CPZ18B03	Mounting aid with swivel nut
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
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-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-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Light Barriers / Diffuse Mode Sensors

18 mm Thread Series Diffuse Mode Sensors



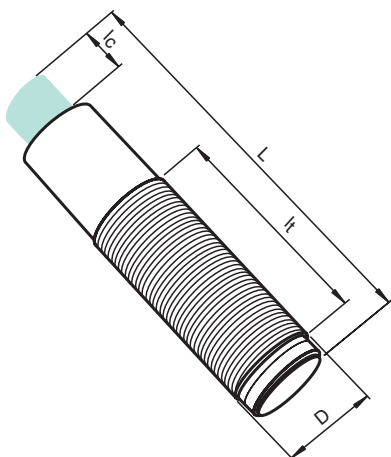
Common Technical Data

Light type	Red LED
Operating elements	Potentiometer
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing diameter D	18 mm
UL	■
UKCA	■

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	Type of Output	Connection Type	Length L
OBD450-18GK40A-E0	energetic	450 mm	NPN	Fixed cable	53.4 mm
OBD450-18GK40A-E0-V1	energetic	450 mm	NPN	M12 connector plug	58.5 mm
OBD450-18GK40A-E2	energetic	450 mm	PNP	Fixed cable	53.4 mm
OBD450-18GK40A-E2-V1	energetic	450 mm	PNP	M12 connector plug	58.5 mm
OBD450-18GM40A-E0	energetic	450 mm	NPN	Fixed cable	53.4 mm
OBD450-18GM40A-E0-V1	energetic	450 mm	NPN	M12 connector plug	58.5 mm
OBD450-18GM40A-E2	energetic	450 mm	PNP	Fixed cable	53.4 mm
OBD450-18GM40A-E2-V1	energetic	450 mm	PNP	M12 connector plug	58.5 mm
OBD450-18GM60A-E4	energetic	450 mm	NPN	Fixed cable	73.4 mm
OBD450-18GM60A-E4-V1	energetic	450 mm	NPN	M12 connector plug	78.5 mm
OBD450-18GM60A-E5	energetic	450 mm	PNP	Fixed cable	73.4 mm
OBD450-18GM60A-E5-V1	energetic	450 mm	PNP	M12 connector plug	78.5 mm
OBD600-18GK40-E0	energetic	600 mm	NPN	Fixed cable	40 mm
OBD600-18GK40-E0-V1	energetic	600 mm	NPN	M12 connector plug	45.1 mm
OBD600-18GK40-E2	energetic	600 mm	PNP	Fixed cable	40 mm
OBD600-18GK40-E2-V1	energetic	600 mm	PNP	M12 connector plug	45.1 mm
OBD600-18GM40-E0	energetic	600 mm	NPN	Fixed cable	40 mm
OBD600-18GM40-E0-V1	energetic	600 mm	NPN	M12 connector plug	45.1 mm
OBD600-18GM40-E2	energetic	600 mm	PNP	Fixed cable	40 mm
OBD600-18GM40-E2-V1	energetic	600 mm	PNP	M12 connector plug	45.1 mm
OBD600-18GM60-E4	energetic	600 mm	NPN	Fixed cable	60 mm
OBD600-18GM60-E4-V1	energetic	600 mm	NPN	M12 connector plug	65.1 mm
OBD600-18GM60-E5	energetic	600 mm	PNP	Fixed cable	60 mm
OBD600-18GM60-E5-V1	energetic	600 mm	PNP	M12 connector plug	65.1 mm
OBT150-18GK40-E0	with background suppression	150 mm	NPN	Fixed cable	40 mm
OBT150-18GK40-E0-V1	with background suppression	150 mm	NPN	M12 connector plug	45.1 mm
OBT150-18GK40-E2	with background suppression	150 mm	PNP	Fixed cable	40 mm
OBT150-18GK40-E2-V1	with background suppression	150 mm	PNP	M12 connector plug	45.1 mm
OBT150-18GM40-E0	with background suppression	150 mm	NPN	Fixed cable	40 mm
OBT150-18GM40-E0-V1	with background suppression	150 mm	NPN	M12 connector plug	45.1 mm
OBT150-18GM40-E2	with background suppression	150 mm	PNP	Fixed cable	40 mm
OBT150-18GM40-E2-V1	with background suppression	150 mm	PNP	M12 connector plug	45.1 mm
OBT150-18GM60-E4	with background suppression	150 mm	NPN	Fixed cable	60 mm
OBT150-18GM60-E4-V1	with background suppression	150 mm	NPN	M12 connector plug	65.1 mm
OBT150-18GM60-E5	with background suppression	150 mm	PNP	Fixed cable	60 mm
OBT150-18GM60-E5-V1	with background suppression	150 mm	PNP	M12 connector plug	65.1 mm
OBT300-18GK40-E0	with background suppression	300 mm	NPN	Fixed cable	40 mm
OBT300-18GK40-E0-V1	with background suppression	300 mm	NPN	M12 connector plug	45.1 mm
OBT300-18GK40-E2	with background suppression	300 mm	PNP	Fixed cable	40 mm
OBT300-18GK40-E2-V1	with background suppression	300 mm	PNP	M12 connector plug	45.1 mm
OBT300-18GM40-E0	with background suppression	300 mm	NPN	Fixed cable	40 mm
OBT300-18GM40-E0-V1	with background suppression	300 mm	NPN	M12 connector plug	45.1 mm

Model Number	Function Principle	Detection Range	Type of Output	Connection Type	Length L
OBT300-18GM40-E2	with background suppression	300 mm	PNP	Fixed cable	40 mm
OBT300-18GM40-E2-V1	with background suppression	300 mm	PNP	M12 connector plug	45.1 mm
OBT300-18GM60-E4	with background suppression	300 mm	NPN	Fixed cable	60 mm
OBT300-18GM60-E4-V1	with background suppression	300 mm	NPN	M12 connector plug	65.1 mm
OBT300-18GM60-E5	with background suppression	300 mm	PNP	Fixed cable	60 mm
OBT300-18GM60-E5-V1	with background suppression	300 mm	PNP	M12 connector plug	65.1 mm



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 5 mm ... 30 mm diameter
CPZ18B03	Mounting aid with swivel nut
OMH-04	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

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

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R2300 Series

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Photoelectric Sensors—Distance Sensors

R100 Series



Common Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Push-button
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

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

Photoelectric Sensors—Distance Sensors

R101 Series



Common Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Push-button
Type of voltage	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	Light Type	Type of Output	Connection Type
OMT50-R101-2EP-IO	50 mm	Red LED	2 x push-pull	Fixed cable
OMT50-R101-2EP-IO-0,3M-V1	50 mm	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT50-R101-2EP-IO-0,3M-V1-L	50 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT50-R101-2EP-IO-0,3M-V31	50 mm	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT50-R101-2EP-IO-0,3M-V31-L	50 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT50-R101-2EP-IO-L	50 mm	Red laser diode	2 x push-pull	Fixed cable
OMT50-R101-2EP-IO-V31	50 mm	Red LED	2 x push-pull	M8 connector plug
OMT50-R101-2EP-IO-V31-L	50 mm	Red laser diode	2 x push-pull	M8 connector plug
OMT50-R101-EP-IO-0,3M-V3	50 mm	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT50-R101-EP-IO-0,3M-V3-L	50 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT50-R101-EP-IO-V3	50 mm	Red LED	1 x push-pull	M8 connector plug
OMT50-R101-EP-IO-V3-L	50 mm	Red laser diode	1 x push-pull	M8 connector plug
OMT100-R101-2EP-IO	100 mm	Red LED	2 x push-pull	Fixed cable
OMT100-R101-2EP-IO-0,3M-V1	100 mm	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT100-R101-2EP-IO-0,3M-V1-L	100 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT100-R101-2EP-IO-0,3M-V31	100 mm	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT100-R101-2EP-IO-0,3M-V31-L	100 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT100-R101-2EP-IO-L	100 mm	Red laser diode	2 x push-pull	Fixed cable
OMT100-R101-2EP-IO-V31	100 mm	Red LED	2 x push-pull	M8 connector plug
OMT100-R101-2EP-IO-V31-L	100 mm	Red laser diode	2 x push-pull	M8 connector plug
OMT100-R101-EP-IO-0,3M-V3	100 mm	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT100-R101-EP-IO-0,3M-V3-L	100 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT100-R101-EP-IO-V3	100 mm	Red LED	1 x push-pull	M8 connector plug
OMT100-R101-EP-IO-V3-L	100 mm	Red laser diode	1 x push-pull	M8 connector plug
OMT150-R101-2EP-IO-0,3M-V1-L	150 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug
OMT150-R101-2EP-IO-0,3M-V31-L	150 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug
OMT150-R101-2EP-IO-L	150 mm	Red laser diode	2 x push-pull	Fixed cable
OMT150-R101-2EP-IO-V31-L	150 mm	Red laser diode	2 x push-pull	M8 connector plug
OMT150-R101-EP-IO-0,3M-V3-L	150 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug
OMT150-R101-EP-IO-V3-L	150 mm	Red laser diode	1 x push-pull	M8 connector plug
OMT200-R101-2EP-IO	200 mm	Red LED	2 x push-pull	Fixed cable
OMT200-R101-2EP-IO-0,3M-V1	200 mm	Red LED	2 x push-pull	Fixed cable with M12 plug
OMT200-R101-2EP-IO-0,3M-V31	200 mm	Red LED	2 x push-pull	Fixed cable with M8 plug
OMT200-R101-2EP-IO-V31	200 mm	Red LED	2 x push-pull	M8 connector plug
OMT200-R101-EP-IO-0,3M-V3	200 mm	Red LED	1 x push-pull	Fixed cable with M8 plug
OMT200-R101-EP-IO-V3	200 mm	Red LED	1 x push-pull	M8 connector plug

Photoelectric Sensors—Distance Sensors

R103 Series



Common Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Push-button
Type of voltage	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	Light Type	Type of Output	Connection Type	Height H
OMT45-R103-EP-IO-V3-L	45 mm	Red laser diode	1 x push-pull	M8 connector plug	43.9 mm
OMT45-R103-2EP-IO	45 mm	Red LED	2 x push-pull	Fixed cable	36.5 mm
OMT45-R103-2EP-IO-0,M-V1	45 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OMT45-R103-2EP-IO-0,3M-V1-L	45 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OMT45-R103-2EP-IO-0,3M-V31	45 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT45-R103-2EP-IO-0,3M-V31-L	45 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT45-R103-2EP-IO-L	45 mm	Red laser diode	2 x push-pull	Fixed cable	36.5 mm
OMT45-R103-2EP-IO-V31	45 mm	Red LED	2 x push-pull	M8 connector plug	43.9 mm
OMT45-R103-2EP-IO-V31-L	45 mm	Red laser diode	2 x push-pull	M8 connector plug	43.9 mm
OMT45-R103-EP-IO-0,3M-V3	45 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT45-R103-EP-IO-0,3M-V3-L	45 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT45-R103-EP-IO-V3	45 mm	Red LED	1 x push-pull	M8 connector plug	43.9 mm
OMT100-R103-2EP-IO	100 mm	Red LED	2 x push-pull	Fixed cable	36.5 mm
OMT100-R103-2EP-IO-0.3M-V1	100 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OMT100-R103-2EP-IO-0,3M-V31	100 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT100-R103-2EP-IO-V31	100 mm	Red LED	2 x push-pull	M8 connector plug	43.9 mm
OMT100-R103-EP-IO-0,3M-V3	100 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT100-R103-EP-IO-V3	100 mm	Red LED	1 x push-pull	M8 connector plug	43.9 mm
OMT120-R103-2EP-IO-0,3M-V1-L	120 mm	Red laser diode	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OMT120-R103-2EP-IO-0,3M-V31-L	120 mm	Red laser diode	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT120-R103-2EP-IO-L	120 mm	Red laser diode	2 x push-pull	Fixed cable	36.5 mm
OMT120-R103-2EP-IO-V31-L	120 mm	Red laser diode	2 x push-pull	M8 connector plug	43.9 mm
OMT120-R103-EP-IO-0,3M-V3-L	120 mm	Red laser diode	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT120-R103-EP-IO-V3-L	120 mm	Red laser diode	1 x push-pull	M8 connector plug	43.9 mm
OMT150-R103-2EP-IO	150 mm	Red LED	2 x push-pull	Fixed cable	36.5 mm
OMT150-R103-2EP-IO-0,3M-V1	150 mm	Red LED	2 x push-pull	Fixed cable with M12 plug	36.5 mm
OMT150-R103-2EP-IO-0,3M-V31	150 mm	Red LED	2 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT150-R103-2EP-IO-V31	150 mm	Red LED	2 x push-pull	M8 connector plug	43.9 mm
OMT150-R103-EP-IO-0,3M-V3	150 mm	Red LED	1 x push-pull	Fixed cable with M8 plug	36.5 mm
OMT150-R103-EP-IO-V3	150 mm	Red LED	1 x push-pull	M8 connector plug	43.9 mm

Photoelectric Sensors—Distance Sensors

R200 Series



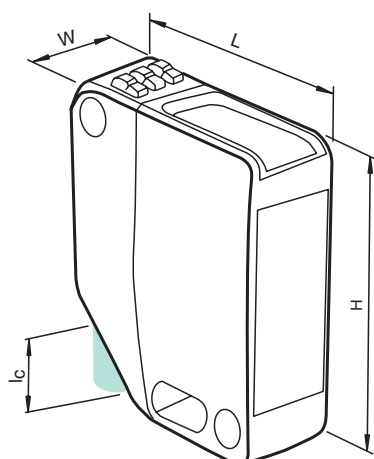
Common Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Push-button
Type of voltage	DC
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	50.6 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	Connection Type
OMT300-R200-2EP-IO	300 mm	Red LED	2 x push-pull	10 V	Fixed cable
OMT300-R200-2EP-IO-0,3M-V1	300 mm	Red LED	2 x push-pull	10 V	Fixed cable with M12 plug
OMT300-R200-2EP-IO-0,3M-V1-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M12 plug
OMT300-R200-2EP-IO-0,3M-V31	300 mm	Red LED	2 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R200-2EP-IO-0,3M-V31-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R200-2EP-IO-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable
OMT300-R200-2EP-IO-V1	300 mm	Red LED	2 x push-pull	10 V	M12 connector plug
OMT300-R200-2EP-IO-V1-L	300 mm	Red laser diode	2 x push-pull	10 V	M12 connector plug
OMT300-R200-2EP-IO-V31	300 mm	Red LED	2 x push-pull	10 V	M8 connector plug
OMT300-R200-2EP-IO-V31-L	300 mm	Red laser diode	2 x push-pull	10 V	M8 connector plug
OMT300-R200-EP-IO-0,3M-V3	300 mm	Red LED	1 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R200-EP-IO-0,3M-V3-L	300 mm	Red laser diode	1 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R200-EP-IO-V3	300 mm	Red LED	1 x push-pull	10 V	M8 connector plug
OMT300-R200-EP-IO-V3-L	300 mm	Red laser diode	1 x push-pull	10 V	M8 connector plug
OMT300-R200-IEP-IO-0,3M-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R200-IEP-IO-0,3M-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R200-IEP-IO-0,3M-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R200-IEP-IO-0,3M-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R200-IEP-IO-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R200-IEP-IO-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R200-IEP-IO-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R200-IEP-IO-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R200-UEP-IO-0,3M-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R200-UEP-IO-0,3M-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R200-UEP-IO-0,3M-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R200-UEP-IO-0,3M-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R200-UEP-IO-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R200-UEP-IO-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R200-UEP-IO-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R200-UEP-IO-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT550-R200-2EP-IO	550 mm	Red LED	2 x push-pull	10 V	Fixed cable
OMT550-R200-2EP-IO-0,3M-V1	550 mm	Red LED	2 x push-pull	10 V	Fixed cable with M12 plug
OMT550-R200-2EP-IO-0,3M-V31	550 mm	Red LED	2 x push-pull	10 V	Fixed cable with M8 plug
OMT550-R200-2EP-IO-V1	550 mm	Red LED	2 x push-pull	10 V	M12 connector plug
OMT550-R200-2EP-IO-V31	550 mm	Red LED	2 x push-pull	10 V	M8 connector plug
OMT550-R200-EP-IO-0,3M-V3	550 mm	Red LED	1 x push-pull	10 V	Fixed cable with M8 plug
OMT550-R200-EP-IO-V3	550 mm	Red LED	1 x push-pull	10 V	M8 connector plug
OMT550-R200-IEP-IO-0,3M-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT550-R200-IEP-IO-0,3M-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT550-R200-IEP-IO-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT550-R200-IEP-IO-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT550-R200-UEP-IO-0,3M-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	Connection Type
OMT550-R200-UEP-IO-0,3M-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT550-R200-UEP-IO-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT550-R200-UEP-IO-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT600-R200-2EP-IO-0,3M-V1-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M12 plug
OMT600-R200-2EP-IO-0,3M-V31-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M8 plug
OMT600-R200-2EP-IO-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable
OMT600-R200-2EP-IO-V1-L	600 mm	Red laser diode	2 x push-pull	10 V	M12 connector plug
OMT600-R200-2EP-IO-V31-L	600 mm	Red laser diode	2 x push-pull	10 V	M8 connector plug
OMT600-R200-EP-IO-0,3M-V3-L	600 mm	Red laser diode	1 x push-pull	10 V	Fixed cable with M8 plug
OMT600-R200-EP-IO-V3-L	600 mm	Red laser diode	1 x push-pull	10 V	M8 connector plug
OMT600-R200-IEP-IO-0,3M-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT600-R200-IEP-IO-0,3M-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT600-R200-IEP-IO-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT600-R200-IEP-IO-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT600-R200-UEP-IO-0,3M-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT600-R200-UEP-IO-0,3M-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT600-R200-UEP-IO-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT600-R200-UEP-IO-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage 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 profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-R20x-Quick-Mount	Quick mounting aid
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray

Photoelectric Sensors—Distance Sensors

R201 Series



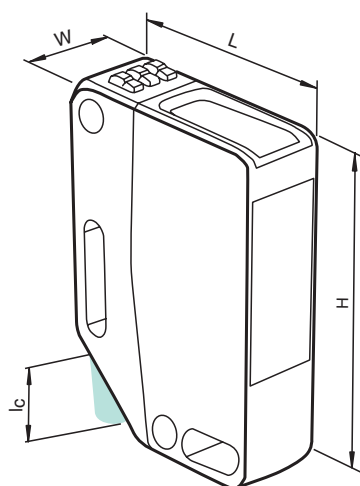
Common Technical Data

Function principle	Distance sensor
Interface	IO-Link
Operating elements	Push-button
Type of voltage	DC
Operating voltage (max)	30 V
Housing length L	41.7 mm
Housing width W	15 mm
Housing height H	61.7 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	Connection Type
OMT300-R201-2EP-IO	300 mm	Red LED	2 x push-pull	10 V	Fixed cable
OMT300-R201-2EP-IO-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable
OMT300-R201-2EP-IO-V1	300 mm	Red LED	2 x push-pull	10 V	M12 connector plug
OMT300-R201-2EP-IO-0,3M-V1	300 mm	Red LED	2 x push-pull	10 V	Fixed cable with M12 plug
OMT300-R201-2EP-IO-V31	300 mm	Red LED	2 x push-pull	10 V	M8 connector plug
OMT300-R201-2EP-IO-0,3M-V31	300 mm	Red LED	2 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R201-EP-IO-V3	300 mm	Red LED	1 x push-pull	10 V	M8 connector plug
OMT300-R201-EP-IO-0,3M-V3	300 mm	Red LED	1 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R201-IEP-IO-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R201-IEP-IO-0,3M-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R201-IEP-IO-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R201-IEP-IO-0,3M-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R201-UEP-IO-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R201-UEP-IO-0,3M-V1	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R201-UEP-IO-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R201-UEP-IO-0,3M-V31	300 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R201-2EP-IO-V1-L	300 mm	Red laser diode	2 x push-pull	10 V	M12 connector plug
OMT300-R201-2EP-IO-0,3M-V1-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M12 plug
OMT300-R201-2EP-IO-0,3M-V31-L	300 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R201-2EP-IO-V31-L	300 mm	Red laser diode	2 x push-pull	10 V	M8 connector plug
OMT300-R201-EP-IO-0,3M-V3-L	300 mm	Red laser diode	1 x push-pull	10 V	Fixed cable with M8 plug
OMT300-R201-EP-IO-V3-L	300 mm	Red laser diode	1 x push-pull	10 V	M8 connector plug
OMT300-R201-IEP-IO-0,3M-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R201-IEP-IO-0,3M-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R201-IEP-IO-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R201-IEP-IO-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT300-R201-UEP-IO-0,3M-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT300-R201-UEP-IO-0,3M-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT300-R201-UEP-IO-V1-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT300-R201-UEP-IO-V31-L	300 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT550-R201-2EP-IO	550 mm	Red LED	2 x push-pull	10 V	Fixed cable
OMT550-R201-2EP-IO-V1	550 mm	Red LED	2 x push-pull	10 V	M12 connector plug
OMT550-R201-2EP-IO-0,3M-V1	550 mm	Red LED	2 x push-pull	10 V	Fixed cable with M12 plug
OMT550-R201-2EP-IO-V31	550 mm	Red LED	2 x push-pull	10 V	M8 connector plug
OMT550-R201-2EP-IO-0,3M-V31	550 mm	Red LED	2 x push-pull	10 V	Fixed cable with M8 plug
OMT550-R201-EP-IO-V3	550 mm	Red LED	1 x push-pull	10 V	M8 connector plug
OMT550-R201-EP-IO-0,3M-V3	550 mm	Red LED	1 x push-pull	10 V	Fixed cable with M8 plug
OMT550-R201-IEP-IO-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT550-R201-IEP-IO-0,3M-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT550-R201-IEP-IO-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT550-R201-IEP-IO-0,3M-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT550-R201-UEP-IO-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M12 connector plug

Model Number	Detection Range	Light Type	Type of Output	UB (Min)	Connection Type
OMT550-R201-UEP-IO-0,3M-V1	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT550-R201-UEP-IO-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT550-R201-UEP-IO-0,3M-V31	550 mm	Red LED	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT600-R201-2EP-IO-0,3M-V1-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M12 plug
OMT600-R201-2EP-IO-0,3M-V31-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable with M8 plug
OMT600-R201-2EP-IO-L	600 mm	Red laser diode	2 x push-pull	10 V	Fixed cable
OMT600-R201-2EP-IO-V1-L	600 mm	Red laser diode	2 x push-pull	10 V	M12 connector plug
OMT600-R201-2EP-IO-V31-L	600 mm	Red laser diode	2 x push-pull	10 V	M8 connector plug
OMT600-R201-EP-IO-0,3M-V3-L	600 mm	Red laser diode	1 x push-pull	10 V	Fixed cable with M8 plug
OMT600-R201-EP-IO-V3-L	600 mm	Red laser diode	1 x push-pull	10 V	M8 connector plug
OMT600-R201-IEP-IO-0,3M-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT600-R201-IEP-IO-0,3M-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT600-R201-IEP-IO-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT600-R201-IEP-IO-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug
OMT600-R201-UEP-IO-0,3M-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M12 plug
OMT600-R201-UEP-IO-0,3M-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	Fixed cable with M8 plug
OMT600-R201-UEP-IO-V1-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M12 connector plug
OMT600-R201-UEP-IO-V31-L	600 mm	Red laser diode	1 x push-pull, 1 x analog	18 V	M8 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-R20x-Quick-Mount	Quick mounting aid
OMH-RL31-02	Mounting bracket narrow
OMH-RL31-03	Mounting bracket narrow
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, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V3-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, gray
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Sensors—Distance Sensors

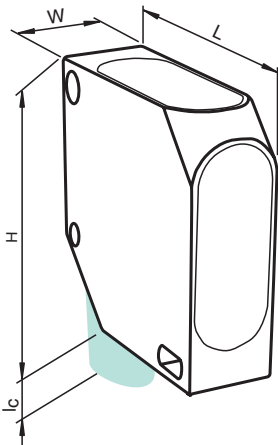
VDM18 Series



Common Technical Data	
Function principle	Distance sensor
Light type	Red laser diode
Operating elements	Potentiometer
Type of voltage	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	Type of Output
VDM18-100/20/122/151	100 mm	PNP
VDM18-100/20/88/122/151	100 mm	PNP
VDM18-100/32/105/122	100 mm	PNP
VDM18-300/20/122/151	300 mm	PNP
VDM18-300/20/88/122/151	300 mm	PNP
VDM18-300/21/122/151	300 mm	NPN
VDM18-300/32/105/122	300 mm	PNP



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

Photoelectric Sensors—Distance Sensors

VDM28 Series

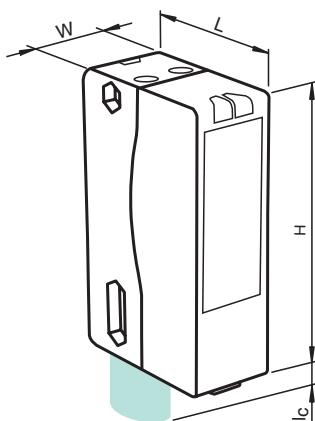


Common Technical Data

Function principle	Distance sensor
Operating elements	Push-button
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing width W	25.8 mm
Housing height H	88 mm
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Interface	Type of Output	Connection Type	Length L
VDM28-8-L1-IO/110/115b/122	8 m	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6 mm
VDM28-8-L1-IO/115b/136	8 m	Red laser diode	IO-Link	2 x push-pull	Fixed cable with M12 plug	54.6 mm
VDM28-8-L1-IO/33/110/115b/122	8 m	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6 mm
VDM28-8-L1-IO/73c/110/122	8 m	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6 mm
VDM28-8-L1-IO/73c/136	8 m	Red laser diode	IO-Link	2 x push-pull	M12 connector plug	54.6 mm
VDM28-8-L1-IR-IO/73C/110/122	8 m	Infrared laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6 mm
VDM28-8-L1/73c/136	8 m	Red laser diode		2 x push-pull	M12 connector plug	54.3 mm
VDM28-15-L1-IO/110/115b/122	15 m	Red laser diode	IO-Link	1 x push-pull	Fixed cable with M12 plug	54.6 mm
VDM28-15-L1-IO/73c/110/122	15 m	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6 mm
VDM28-15-L1/73c/136	15 m	Red laser diode		2 x push-pull	M12 connector plug	54.3 mm
VDM28-50-R1-IO/73c/110/122	50 m	Red laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6 mm
VDM28-50-R1-IO/73c/136	50 m	Red laser diode		2 x push-pull	M12 connector plug	54.6 mm
VDM28-50-R1-IR-IO/73c/110/122	50 m	Infrared laser diode	IO-Link	1 x push-pull	M12 connector plug	54.6 mm
VDM28-50-R1/73c/136	50 m	Red laser diode		2 x push-pull	M12 connector plug	54.6 mm



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-05	Mounting aid for circular profiles ø 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-07-01	Mounting aid for circular profiles ø 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
OMH-K03	Mounting clamp for sensors with dovetail
OMH-RL28-C	Protective cover for protection against welding beads
OMH-RLK29-HW	Mounting bracket for rear wall mounting
OMH-VDM28-01	Metal enclosure for inserting protective panes or diaphragms
OMH-VDM28-02	Mounting and fine adjustment device for sensors from the 28 series

Photoelectric Sensors—Distance Sensors

R1000 Series



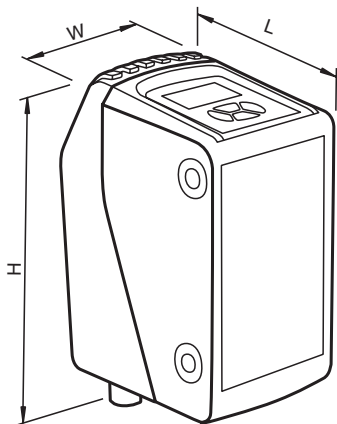
Common Technical Data

Function principle	Distance sensor
Light type	Red laser diode
Interface	SSI
Operating elements	Push-button
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	80.6 mm
Housing width W	55 mm
Housing height H	106.6 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

OMR150M-R1000-SSI-V1V1B	150 m
OMR150M-R1000-SSI-V1V1B-T	150 m
OMR50M-R1000-SSI-V1V1B	50 m
OMR50M-R1000-SSI-V1V1B-T	50 m



Accessories

OFR-1000/1000	Reflective tape, 1000 mm x 1000 mm
OFR-250/250	Reflective Tape
OFR-500/500	Reflective Tape
OMH-R1000-01	Mounting bracket
OMH-R1000-02	Mounting aid for R1000 series sensors, quick-lock and adjustment device
REF-250 mmx250 mm	Reflective tape on metal plate 250 mm x 250 mm
REF-500 mmx500 mm	Reflective tape on metal plate 500 mm x 500 mm
Protective cap LS610 accessories	M12 protective cap set (male + female) for LS610 / LS611 series
V1-G-BK	Single-ended female cordset, straight, M12, 4-pin, field attachable
V1-W-BK	Single-ended female cordset, angled, M12, 4-pin, field attachable
V15-G-PG9	Single-ended female cordset, M12, 5-pin, field-attachable
V15-W-PG9	Single-ended female cordset, M12, 5-pin, field-attachable
V15B-G-15M-LIHCH-TP	SSI bus cable, B-coded M12, 5-pin cable
V15B-G-ABG-PG9	Single-ended female cordset, M12, for PROFIBUS, field-attachable
V15B-W-15M-LIHCH-TP	SSI bus cable, M12, B-coded, 5-pin cable

2-D LiDAR Sensor

R2100 Series



Common Technical Data	
Function principle	2-D LiDAR sensor
Light type	Infrared LED
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

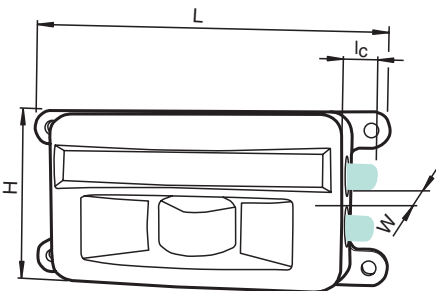
Model Number	Detection Range	Interface
OMD6000-R2100-B16-2V15	6 m	CAN
OMD8000-R2100-R2-2V15	8 m	

Highlights

- Development of the PRT ensures reliable and clear measurement
- Long service life due to measurement using LEDs
- No moving parts for added durability
- 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 R2100 is a solid-state design LiDAR sensor that works without moving parts and delivers extra durability. This multi-ray LED scanner from Pepperl+Fuchs is also cost-effective. The device carries out 2-D measurements over 11 single beams for absolutely reliable measurement results. Multiple wide-beam emitters of the R2100 ensure reliable object detection regardless of surface texture.



Accessories	
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray
V1-W-BK5M-PUR-U	Single-ended female cordset, M12, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V15-G-2M-PVC-SUBD9	Adapter cable M12 socket, straight, A-coded 5-pin to Sub-D plug, 9-pin, PVC cable, gray
V15-G-5M-PUR-ABG	Single-ended female cordset, M12, straight, A-coded, 5-pin, PUR cable, gray, shielded

2-D LiDAR Sensor

R2000 Series



Common Technical Data

Function principle	2-D LiDAR sensor
Operating elements	Push-button
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

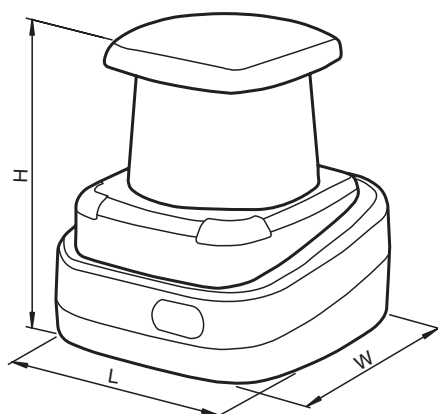
Model Number	Detection Range	Light Type	Repeat rate [kHz]	Resolution
OBD10M-R2000-4EP-V1V17	10 m	Red laser diode	54	
OMD10M-R2000-B23-V1V1D	10 m	Red laser diode	250	1 mm
OMD12M-R2000-B23-V1V1D-HD-1L	12 m	Infrared laser diode	84	1 mm
OBD30M-R2000-4EP-V1V17-1L	30 m	Infrared laser diode	54	
OBD30M-R2000-4EP-V1V17-T-1L	30 m	Infrared laser diode	54	
OMD30M-R2000-B23-V1V1D-1L	30 m	Infrared laser diode	250	1 mm
OMD30M-R2000-B23-V1V1D-HD-1L	30 m	Infrared laser diode	84	1 mm
OMD30M-R2000-B23-V1V1D-T-1L	30 m	Infrared laser diode	250	1 mm
OMD60M-R2000-B23-V1V1D-1L	60 m	Infrared laser diode	250	1 mm
OMD60M-R2000-B23-V1V1D-T-1L	60 m	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 and diagnostic information can be viewed during operation.



Accessories

Functional grounding LS610/VDM1000 accessories	Functional grounding for LS610 / LS611 / VDM100 series
MH-R2000	Mounting aid for R2000 series sensors, quick-lock and adjustment device
Protective cap LS610 accessories	M12 protective cap set (male + female) for LS610 / LS611 series
V1-G-5M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V19-G-5M-PUR-ABG	Single-ended female cordset, M12, straight, A-coded, 8-pin, PUR cable, gray, shielded

3-D LiDAR Sensor

R2300 Series



Common Technical Data	
Function principle	3-D LiDAR sensor
Detection range	4 m
Light type	Infrared laser diode
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	69 mm
Housing width W	96 mm
Housing height H	57 mm
UL	■

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

Model Number

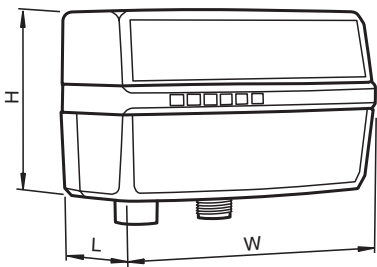
OMD10M-R2300-B23-V1V1D-4S

Highlights

- High angle resolution
- Aligned using integrated pilot laser
- PRT (Pulse Ranging Technology) measurement procedure
- Compact housing design
- High pollution tolerance

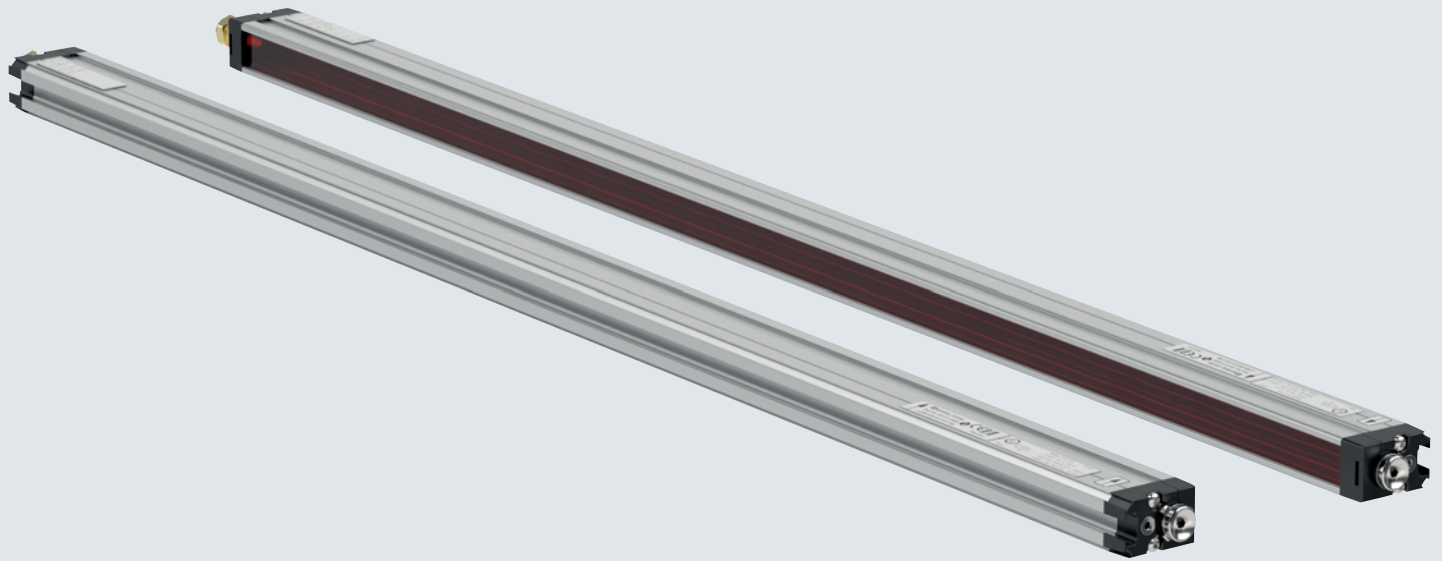
Brief Description

The R2300 multi-layer scanner combines four scan layers into a single 3-D LiDAR sensor, providing significantly more measurement information about the sensing range. It reliably detects even the smallest object structures and contours. The integrated pilot laser can be switched on for simple alignment and commissioning. With the exception of the rotating mirror, the device has entirely solid-state electronics, which make it especially durable.



Accessories	
Protective cap	M12 protective cap set (male + female) for LS610 / LS611 series
LS610 accessories	
V1-G-5M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-BK5M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-W-5M-PUR-ABG	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray, shielded
V1SD-90-W-3M-PUR-ABG-V45-G	Bus cable, Ethernet, angled M12 plug, D-coded to RJ45, Ethernet-coded, 4-pin, PUR cable, blue, Cat5e, shielded
V1SD-G-ABG-PG9	Single-ended male cordset, M12, 4-pin, D-coded, shielded, field-attachable

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
- Determining the position of and measuring objects
- Detecting any shape of object
- Object Identification

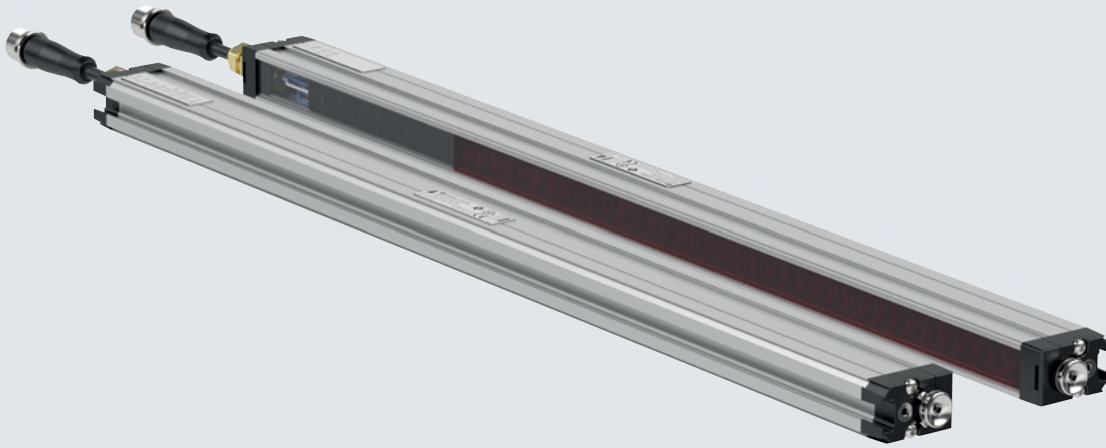
The Benefits of Selected Products at a Glance

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 via integrated object detection

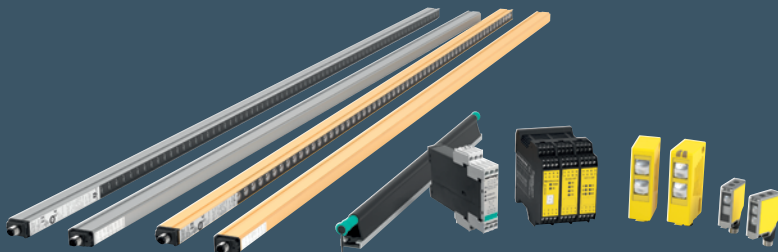
LGM Measuring Light Grid:

- 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 rugged 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:
pepperl-fuchs.com/fa-safety

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Photoelectric Sensors—Light Grids

LGM Series



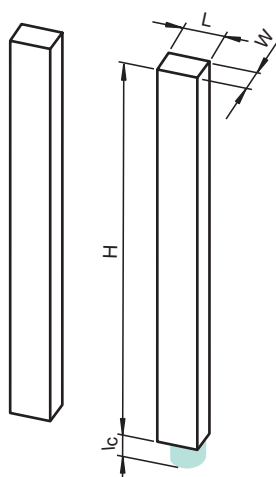
Common Technical Data

Function principle	Thru-beam sensor
Detection range	6000 mm
Light type	Infrared LED
Interface	IO-Link
Type of output	1 x push-pull
Operating elements	Push-button
Type of voltage	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
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-LGS-01	Mounting aid for LGS/LGM series light grids
OMH-SLCT-01	Quick-lock and adjustment device
OMH-SLCT-03	Mounting bracket complete with adjustment component
OMH-SLCT-04	Mounting bracket complete with adjustment component (moveable bearing)
OMH-SLCT-05	Mounting bracket complete with adjustment component
OMH-SLCT-06	Swivel bracket
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, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-G-BK15M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-G-BK2M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof

Photoelectric Sensors—Light Grids

LGS Series



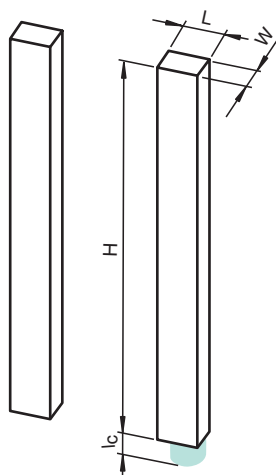
Common Technical Data

Function principle	Thru-beam sensor
Detection range	6000 mm
Light type	Infrared LED
Interface	IO-Link
Type of output	1 x push-pull
Operating elements	Push-button
Type of voltage	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
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
OMH-LGS-01	Mounting aid for LGS/LGM series light grids
OMH-SLCT-01	Quick-lock and adjustment device
OMH-SLCT-03	Mounting bracket complete with adjustment component
OMH-SLCT-04	Mounting bracket complete with adjustment component (moveable bearing)
OMH-SLCT-05	Mounting bracket complete with adjustment component
OMH-SLCT-06	Swivel bracket
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, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-G-BK15M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V1-G-BK2M-PUR-U	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof

Photoelectric Sensors—Light Grids

RLG28 Series

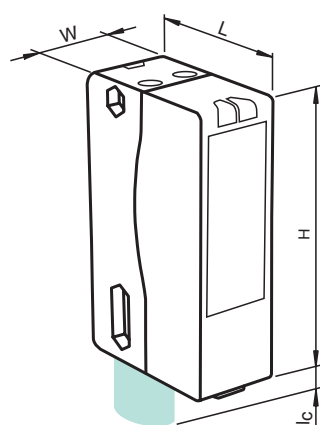


Common Technical Data

Function principle	Retroreflective sensor with polarization filter
Light type	Red LED
Operating elements	Push-button
Type of voltage	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.

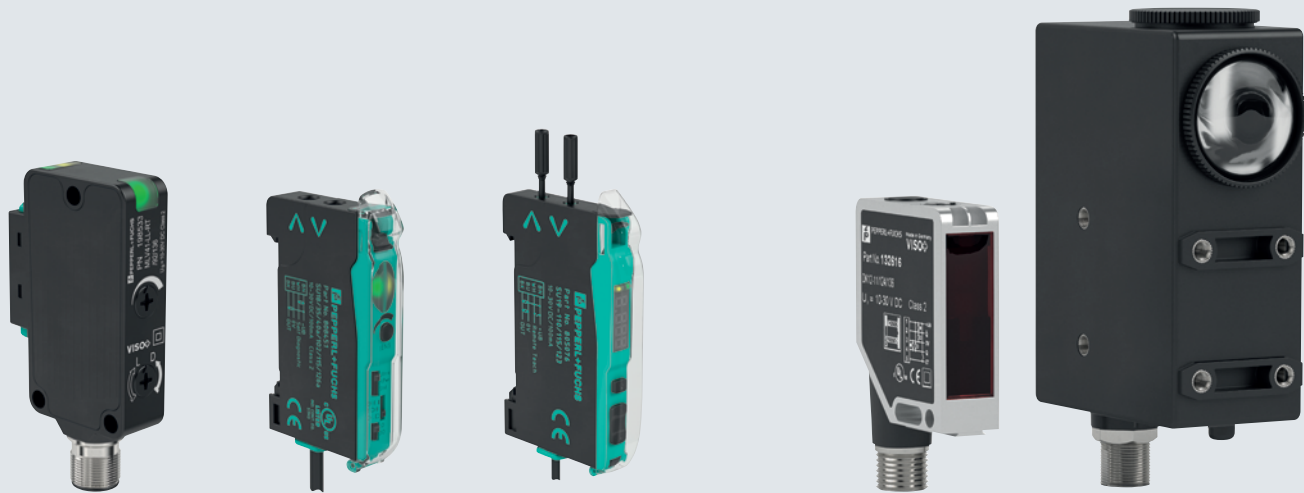
Model Number	Detection Range	Type of Output	Connection Type
RLG28-55-7226	600 mm	2 x push-pull	Fixed cable with M12 plug
RLG28-55-7462	4000 mm	1 x push-pull	M12 connector plug
RLG28-55/115b/136	4000 mm	2 x push-pull	Fixed cable with M12 plug
RLG28-55/40a/115b/136	4000 mm	2 x push-pull	Fixed cable with M12 plug
RLG28-55/40a/73c/136	4000 mm	2 x push-pull	M12 connector plug



Accessories

OFR-100/100	Reflective tape, 100 mm x 100 mm
OMH-05	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-K01	Mounting clamp for sensors with dovetail
OMH-RLK29-HW	Mounting bracket for rear wall mounting
REF-A80	Rectangular reflector, 80 mm x 50 mm, self-adhesive
REF-H50x100	Rectangular reflector, 122 mm x 49.5 mm, mounting holes
REF-H85-2	Rectangular reflector, 84.5 mm x 84.5 mm, mounting holes
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-2M-PVC	Single-ended female cordset, M12, straight, A-coded, 4-pin, PVC cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

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 housing designs available for DIN rail mounting

Print Mark Contrast Sensors

- 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 housing designs
- High switch point accuracy for the most precise positioning tasks

Technical Features

- Miniature housing 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

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RAL Series

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DF12 Series

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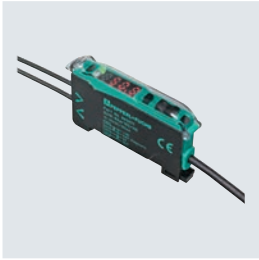


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Photoelectric Sensors—Optical Data Couplers

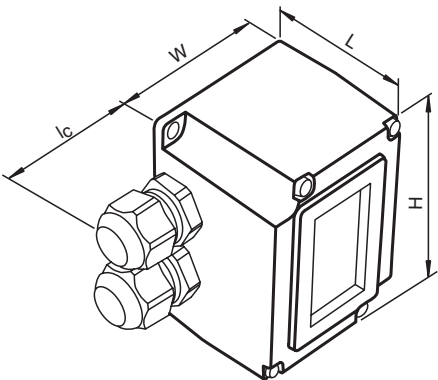
DAD15 Series



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

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

Model Number	Detection Range	UB (Max)
DAD15-8P	1500 mm	60 V
DAD15-8P-R-2388	1500 mm	60 V
DAD15-8P-NPN	1500 mm	30 V
DAD15-8P/35	2500 mm	60 V



Accessories	
OMH-DAD10	Mounting bracket

Photoelectric Sensors—Optical Data Couplers

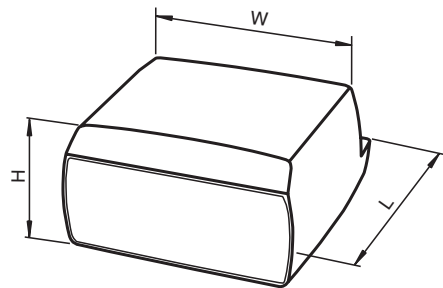
LS682 Series



Common Technical Data	
Function principle	Thru-beam sensor
Interface	Ethernet
Type of voltage	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type
LS682-DA-EN/F1	150 m	Infrared laser diode
LS682-DA-EN/F2	150 m	Red laser diode
LS682-DA-EN/F1/146	150 m	Infrared laser diode
LS682-DA-EN/F2/146	150 m	Red laser diode
LS682-DA-EN/F1/35	300 m	Infrared laser diode
LS682-DA-EN/F2/35	300 m	Red laser diode
LS682-DA-EN/F1/35/146	300 m	Infrared laser diode
LS682-DA-EN/F2/35/146	300 m	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

Photoelectric Sensors—Optical Data Couplers

LS684 Series

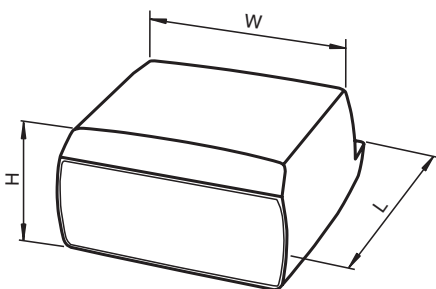


Common Technical Data

Function principle	Thru-beam sensor
Interface	Ethernet
Type of voltage	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type
LS684-DA-EN/F1	150 m	Infrared laser diode
LS684-DA-EN/F2	150 m	Red laser diode
LS684-DA-EN/F2/146	150 m	Red laser diode
LS684-DA-EN/F1/146	150 m	Infrared laser diode
LS684-DA-EN/F1/35	300 m	Infrared laser diode
LS684-DA-EN/F2/35	300 m	Red laser diode
LS684-DA-EN/F1/35/146	300 m	Infrared laser diode
LS684-DA-EN/F2/35/146	300 m	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

Photoelectric Slot Sensors in a Miniature Housing Design

GL2/GL3/GL5 Series



Common Technical Data

Function principle	Thru-beam sensor
Light type	Infrared LED
Type of voltage	DC
Operating voltage (min)	5 V
Operating voltage (max)	30 V

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

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

Accessories

CBL SET GL5	Connection cable for GL5 series
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Photoelectric Slot Sensors in Rugged Pressure Diecast Zinc Housing

GL Series

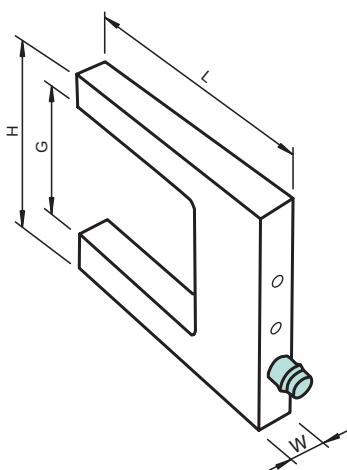


Common Technical Data

Function principle	Thru-beam sensor
Operating elements	Potentiometer
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M8 connector plug
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output
GL10-IR/32/40a/98a	10 mm	Infrared LED	PNP
GL10-RT/30/40a/98a	10 mm	Red LED	NPN
GL10-RT/32/40a/98a	10 mm	Red LED	PNP
GL20-IR/32/40a/98a	20 mm	Infrared LED	PNP
GL20-RT/30/40a/98a	20 mm	Red LED	NPN
GL20-RT/32/40a/98a	20 mm	Red LED	PNP
GL30-IR/32/40a/98a	30 mm	Infrared LED	PNP
GL30-RT/30/40a/98a	30 mm	Red LED	NPN
GL30-RT/32/40a/95	30 mm	Red LED	PNP
GL30-RT/32/40a/98a	30 mm	Red LED	PNP
GL40-IR/32/40a/98a	40 mm	Infrared LED	PNP
GL40-RT/32/40a/98a	40 mm	Red LED	PNP
GL50-IR/32/40a/98a	50 mm	Infrared LED	PNP
GL50-RT/30/40a/98a	50 mm	Red LED	NPN
GL50-RT/32/40a/98a	50 mm	Red LED	PNP
GL80-IR/32/40a/98a	80 mm	Infrared LED	PNP
GL80-RT/30/40a/98a	80 mm	Red LED	NPN
GL80-RT/32/40a/98a	80 mm	Red LED	PNP
GL121-IR/32/40a/98a	121 mm	Infrared LED	PNP
GL121-RT/30/40a/98a	121 mm	Red LED	NPN
GL121-RT/32/40a/98a	121 mm	Red LED	PNP
GL220-IR/32/40a/98a	220 mm	Infrared LED	PNP
GL220-RT/30/40a/98a	220 mm	Red LED	NPN
GL220-RT/32/40a/98a	220 mm	Red LED	PNP



Accessories

V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray

Photoelectric Slot Sensors in Plastic Housing

GLP Series

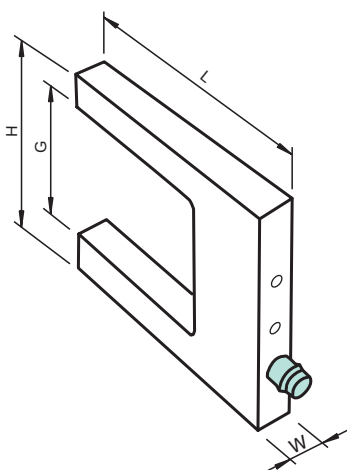


Common Technical Data

Function principle	Thru-beam sensor
Light type	Red LED
Operating elements	Push-button
Type of voltage	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	Type of Output
GLP30-RT/40b/102/123/143	30 mm	NPN
GLP30-RT/40b/102/156	30 mm	NPN
GLP30-RT/40b/103/123/143	30 mm	PNP
GLP30-RT/40b/103/156	30 mm	PNP
GLP50-RT/40b/102/123/143	50 mm	NPN
GLP50-RT/40b/102/156	50 mm	NPN
GLP50-RT/40b/103/123/143	50 mm	PNP
GLP50-RT/40b/103/156	50 mm	PNP
GLP80-RT/40b/102/123/143	80 mm	NPN
GLP80-RT/40b/102/156	80 mm	NPN
GLP80-RT/40b/103/123/143	80 mm	PNP
GLP80-RT/40b/103/156	80 mm	PNP
GLP120-RT/40b/102/123/143	120 mm	NPN
GLP120-RT/40b/102/156	120 mm	NPN
GLP120-RT/40b/103/123/143	120 mm	PNP
GLP120-RT/40b/103/156	120 mm	PNP



Accessories

OMH-K03	Mounting clamp for sensors with dovetail
V3-GM-BK2M-PUR-U	Single-ended female cordset, M8, straight, A-coded, 3-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V3-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, gray
V3-WM-BK2M-PUR-U	Single-ended female cordset, M8, angled, A-coded, 3-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof
V31-GM-2M-PUR	Single-ended female cordset, M8, straight, A-coded, 4-pin, PUR cable, gray
V31-GM-BK2M-PUR-U	Single-ended female cordset, straight, A-coded, 4-pin, PUR cable black, UL-approved, suitable for drag chains, torsion-proof
V31-WM-2M-PUR	Single-ended female cordset, M8, angled, A-coded, 4-pin, PUR cable, gray
V31-WM-BK2M-PUR-U	Single-ended female cordset, angled, A-coded, 4-pin, PUR cable, black, UL-approved, suitable for drag chains, torsion-proof

Photoelectric Slot Sensors

GL-ES Series



Common Technical Data	
Function principle	Thru-beam sensor
Detection range	24 mm
Light type	Infrared LED
Type of output	PNP
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	Fixed cable
EAC	■
UKCA	■

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

Slot Grid Sensors

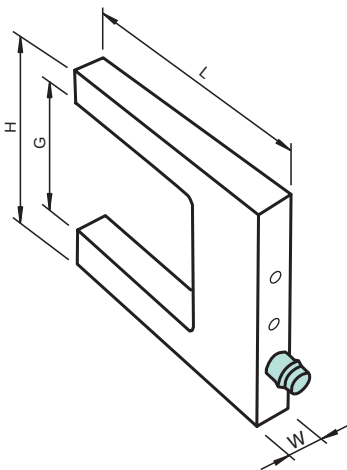
RAL Series



Common Technical Data	
Function principle	Thru-beam sensor
Light type	Infrared LED
Type of output	PNP
Operating elements	Potentiometer
Type of voltage	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	Length L	Height H
RAL50-IR/32/98	50 mm	81 mm	90 mm
RAL70-IR/32/98	70 mm	105 mm	110 mm
RAL100-IR/32/98	100 mm	135 mm	140 mm
RAL150-IR/32/98	150 mm	185 mm	190 mm



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

Photoelectric Sensors—Print Mark Contrast Sensors

DK10 Series

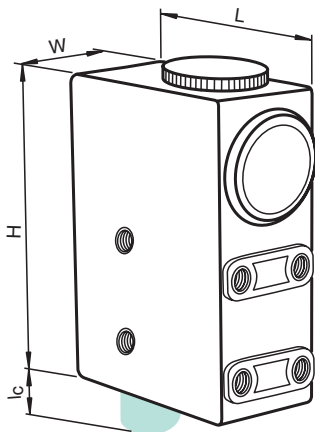


Common Technical Data

Light type	Red laser diode
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Type of Output
DK10-LAS/9S50/76a/110/124	300 mm	1 x push-pull
DK10-LAS/49	300 mm	PNP/NPN
DK10-LAS/76a/110/124	300 mm	1 x push-pull
DK10-LAS/76a/79b/110/124	300 mm	1 x push-pull
DK10-LAS/9S20	300 mm	1 x push-pull
DK10-LAS/35/79b	800 mm	1 x push-pull
DK10-LAS/35/49	800 mm	PNP/NPN
DK10-LAS-54/76/110/124	10,000 mm	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, straight, A-coded, 5-pin, PVC cable, gray
V15-W-5M-PVC	Single-ended female cordset, M12, angled, A-coded, 5-pin, PVC cable, gray

Photoelectric Sensors—Print Mark Contrast Sensors

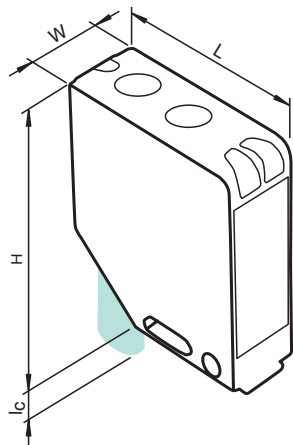
DK12 Series



Common Technical Data	
Detection range	11 mm
Light type	Green/red/blue LED
Type of output	2 x push-pull
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

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	
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection

Photoelectric Sensors—Print Mark Contrast Sensors

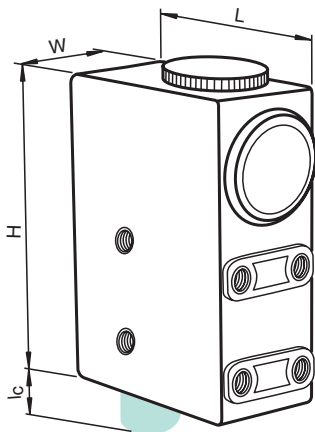
DK20 Series



Common Technical Data	
Operating elements	Push-button
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Type of Output
DK20/9S50	9.5 mm	Green/red/blue LED	1 x push-pull
DK20/49	9.5 mm	Green/red/blue LED	PNP/NPN
DK20-9,5/B/110/124	9.5 mm	Green/red/blue LED	1 x push-pull
DK20-9,5/A/110/124	9.5 mm	Green/red/blue LED	1 x push-pull
DK20-9,5/9S20/110/124	9.5 mm	Green/red/blue LED	1 x push-pull
DK20-9,5/79B/110/124	9.5 mm	Green/red/blue LED	1 x push-pull
DK20-9,5/110/124	9.5 mm	Green/red/blue LED	1 x push-pull
DK20-25/110/124	25 mm	Green/red/blue LED	1 x push-pull
DK20-25/A/110/124	25 mm	Green/red/blue LED	1 x push-pull
DK20/35A/9S20	25 mm	Green/red/blue LED	1 x push-pull
DK20/35B	50 mm	Red LED	1 x push-pull
DK20/35B/79B	50 mm	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, straight, A-coded, 5-pin, PVC cable, gray
V15-W-5M-PVC	Single-ended female cordset, M12, angled, A-coded, 5-pin, PVC cable, gray

Photoelectric Sensors—Print Mark Contrast Sensors

DK21 Series

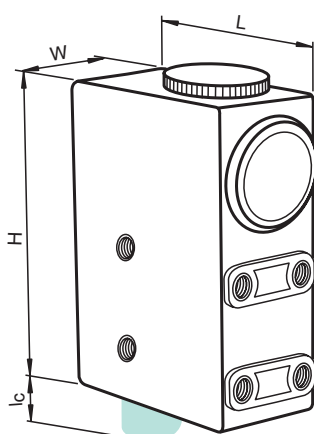


Common Technical Data

Light type	Green/red/blue LED
Type of output	1 x push-pull
Operating elements	Push-button
Type of voltage	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
EAC	■
UKCA	■

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

Model Number	Detection Range
DK21-9,5/A/110/124	9.5 mm
DK21-9,5/110/124	9.5 mm
DK21-9,5/9S50/110/124	9.5 mm
DK21-25/110/124	25 mm



Accessories

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

Photoelectric Sensors—Print Mark Contrast Sensors

DK34 Series

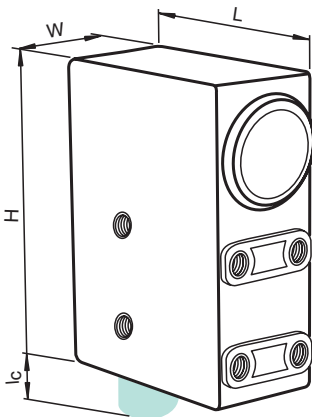


Common Technical Data	
Detection range	9.5 mm
Light type	Green/red/blue LED
Type of output	1 x push-pull
Operating elements	Push-button
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Connection type	M12 connector plug
Housing length L	60.8 mm
Housing width W	33 mm
Housing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

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

Photoelectric Sensors—Print Mark Color Sensors

DF12 Series



Common Technical Data	
Detection range	11 mm
Light type	Green/red/blue LED
Type of output	3 x push-pull
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

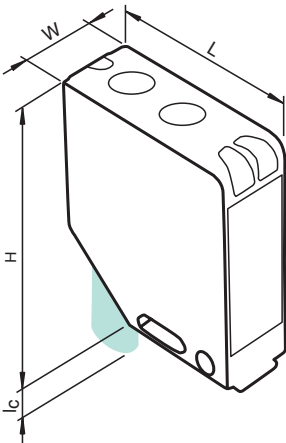
For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number

DF12-11-3K/145/151
DF12-11-3K/9s20/145/151

Timer Function

Impulse-type switch-off delay time relay, 20 ms



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

Photoelectric Sensors—Print Mark Color Sensors

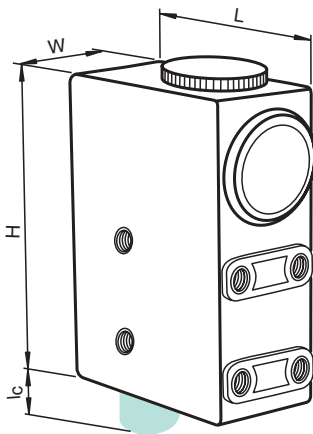
DF20 Series



Common Technical Data	
Light type	Green/red/blue LED
Type of output	PNP/NPN
Operating elements	Push-button
Type of voltage	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
EAC	■
UKCA	■

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

Model Number	Detection Range
DF20/B/49/124	9.5 mm
DF20/49/124	9.5 mm
DF20/9S20/49/124	9.5 mm
DF20/35A/49/124	25 mm



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

Photoelectric Sensors—Fiber Optic Sensors

SU18 Series

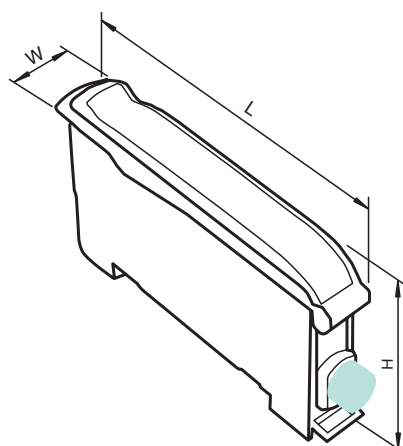


Common Technical Data

Light type	Red LED
Type of voltage	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	Operating Elements	Type of Output	Connection Type
SU18-16/40a/102/115/126a	150 mm	Potentiometer	NPN	Fixed cable
SU18-16/40a/102/115a/126a	150 mm	Potentiometer	NPN	Fixed cable with M8 plug
SU18-16/40a/110/115/126a	150 mm	Potentiometer	1 x push-pull	Fixed cable
SU18-16/40a/110/115a	150 mm	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-16/40a/110/115a/126a	150 mm	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18-16/40a/115a/120	150 mm	Potentiometer	PNP	Fixed cable with M8 plug
SU18-40a/102/115/126a	150 mm	Push-button	NPN	Fixed cable
SU18-40a/102/115a/123	150 mm	Push-button	NPN	Fixed cable with M8 plug
SU18-40a/110/115/123	150 mm	Push-button	1 x push-pull	Fixed cable
SU18-40a/110/115/126a	150 mm	Push-button	1 x push-pull	Fixed cable
SU18-40a/110/115a	150 mm	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18-40a/110/115a/123	150 mm	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18-40a/110/115a/126a	150 mm	Push-button	1 x push-pull	Fixed cable with M8 plug
SU18/16/35/40a/102/115/126a	460 mm	Potentiometer	NPN	Fixed cable
SU18/16/35/40a/110/115/126a	460 mm	Potentiometer	1 x push-pull	Fixed cable
SU18/16/35/40a/110/115a	460 mm	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18/16/35/40a/110/115a/126a	460 mm	Potentiometer	1 x push-pull	Fixed cable with M8 plug
SU18/35/40a/102/115/123	460 mm	Push-button	NPN	Fixed cable
SU18/35/40a/102/115/126a	460 mm	Push-button	NPN	Fixed cable
SU18/35/40a/110/115/123	460 mm	Push-button	1 x push-pull	Fixed cable
SU18/35/40a/110/115/126a	460 mm	Push-button	1 x push-pull	Fixed cable
SU18/35/40a/110/115a/126a	460 mm	Push-button	1 x push-pull	Fixed cable with M8 plug



Accessories

Suitable optical fibers can be found in the relevant product datasheet

Photoelectric Sensors—Fiber Optic Sensors

SU19 Series



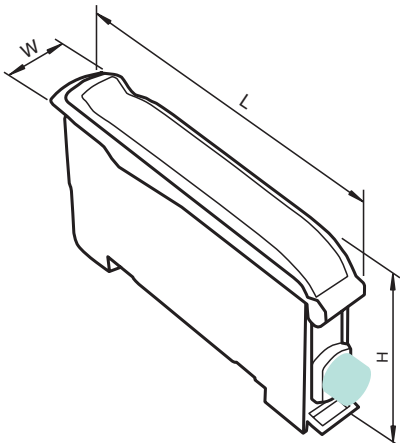
Common Technical Data	
Detection range	150 mm
Light type	Red LED
Type of output	1 x push-pull
Operating elements	Push-button
Type of voltage	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	62.3 mm
Housing width W	9 mm
Housing height H	34.5 mm
UL	■

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



Photoelectric Sensors—Fiber Optic Sensors

MLV41-LL Series

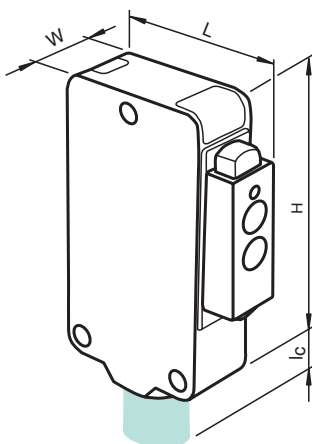


Common Technical Data

Type of output	2 x push-pull
Operating elements	Potentiometer
Type of voltage	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
EAC	■
UL	■
UKCA	■

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

Model Number	Detection Range	Light Type	Interface	Connection Type
MLV41-LL-RT/95/136	36 mm	Red LED		M8 connector plug
MLV41-LL-RT-IO/115/136	36 mm	Red LED	IO-Link	Fixed cable
MLV41-LL-RT-IO/92/136	36 mm	Red LED	IO-Link	M12 connector plug
MLV41-LL-RT-IO/95/136	36 mm	Red LED	IO-Link	M8 connector plug
MLV41-LL-RT/115/136	36 mm	Red LED		Fixed cable
MLV41-LL-RT/92/136	36 mm	Red LED		M12 connector plug
MLV41-LL-IR-IO/115/136	55 mm	Infrared LED	IO-Link	Fixed cable
MLV41-LL-IR-IO/92/136	55 mm	Infrared LED	IO-Link	M12 connector plug
MLV41-LL-IR-IO/95/136	55 mm	Infrared LED	IO-Link	M8 connector plug
MLV41-LL-IR/115/136	55 mm	Infrared LED		Fixed cable
MLV41-LL-IR/92/136	55 mm	Infrared LED		M12 connector plug
MLV41-LL-IR/95/136	55 mm	Infrared LED		M8 connector plug
MLV41-LL-IR/70/136	55 mm	Infrared LED		M9 connector plug



Accessories

ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link master with 8 inputs/outputs
ICE2-8IOL-K45P-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE2-8IOL-K45S-RJ45	Ethernet/IP IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, push-in connector
ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN mounting rail, screw terminal
IO-Link-Master02-USB	IO-Link master, supply via USB port or separate voltage supply, LED indicators, M12 plug for sensor connection
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Suitable optical fibers can be found in the relevant product datasheet

Photoelectric Sensors—Fiber Optic Sensors

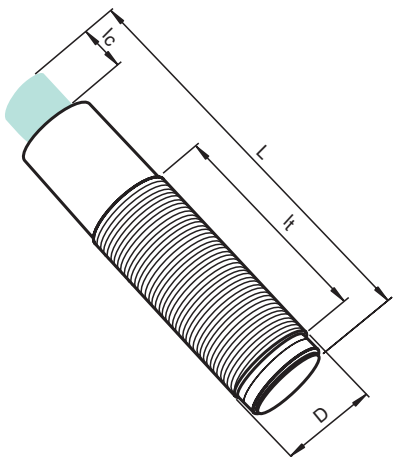
VL18-LL Series



Common Technical Data	
Detection range	70 mm
Light type	Red LED
Operating elements	Potentiometer
Type of voltage	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.

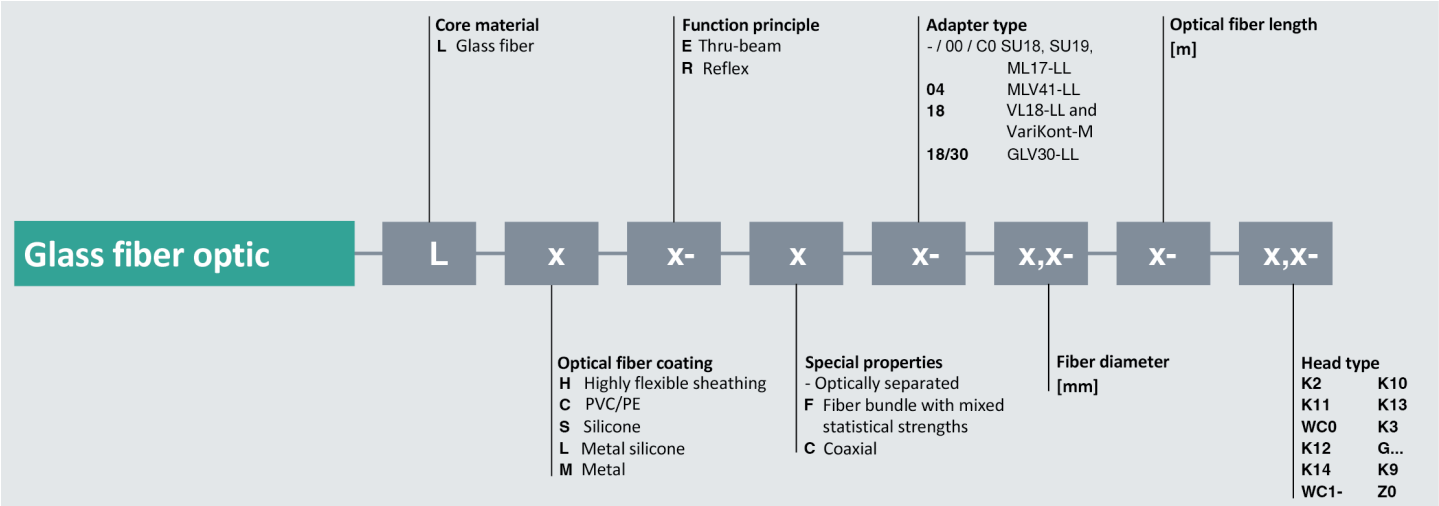
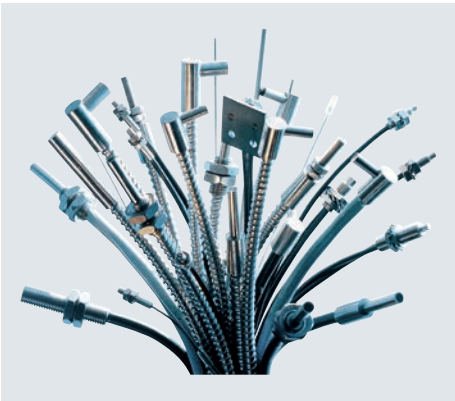
Model Number	Type of Output
VL18LL-M/30/40a/118	NPN
VL18LL-M/32/40a/118	PNP
VL18LL-M/40a/118/128	1 x push-pull



Accessories	
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 4-pin, PUR cable, gray

Suitable optical fibers can be found in the relevant product datasheet

Glass Fiber Optics



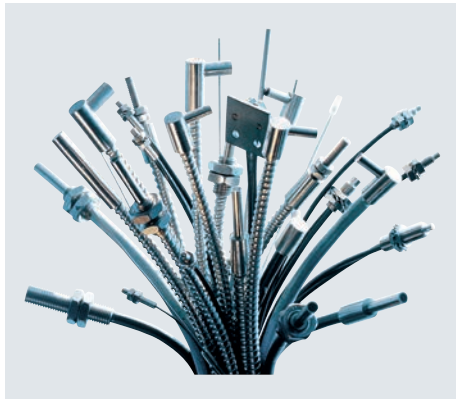
For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

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
K-LA06	Collimating lens, up to eight times higher detection range, M4 thread

Plastic Fiber Optics



	Core material K Plastic material		Function principle E Thru-beam R Reflex		Adapter type - / 00 / C0 SU18, SU19, ML17-LL MLV41-LL VL18-LL and VariKont-M GLV30-LL		Optical fiber length [m]	
Plastic fiber optic	K	x	x-	x	x-	x,x-	x-	x,x-
		Optical fiber coating L PVC/PE		Special properties A Array C Coaxial		Fiber diameter [mm]		Head type K81 K106 K75 K108 K78 K101 K101 K113 K71 K102 K82 K111

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-LA01	Collimating lens, up to four times higher detection range, M2.6 thread
K-LA02	Collimating lens, side optical face, M2.6 thread
K-LA03	Focusing lens, size of light spot approx. 0.5 mm at 8 mm, M3 thread
K-LA04	Collimating lens, up to eight times higher detection range, M4 thread
K-LA06	Collimating lens, up to eight times higher detection range, M4 thread
KM3-1,0	Metal protection for plastic fiber optic M3 x 1 m
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 m

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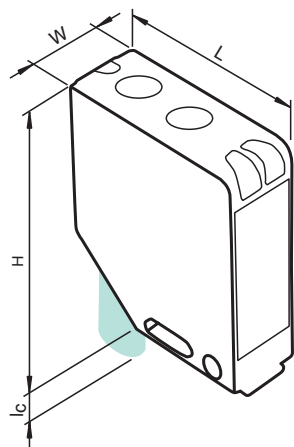
SLA12 Series



Common Technical Data	
Function principle	Thru-beam sensor
Light type	Red laser diode
Type of voltage	DC
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
SLA12-LAS-T/124	12 m
SLA12-LAS-T/35/124	30 m



Accessories	
OMH-06	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-K01	Mounting clamp for sensors with dovetail
OMH-K02	Mounting clamp for sensors with dovetail
OMH-MLV12-HWG	Mounting bracket for MLV12 series sensors
OMH-MLV12-HWK	Mounting bracket for MLV12 series sensors
SB4-OH-4CP-4C-4C-4C	Safety control unit
SB4-OR-4CP-2E	Safety control unit

Photoelectric Sensors—Safety Light Barriers

SLA29 Series

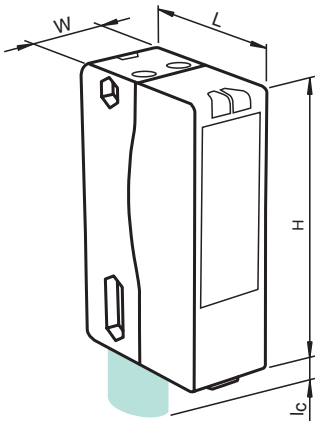


Common Technical Data

Function principle	Thru-beam sensor
Light type	Red LED
Type of voltage	DC
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	Connection Type	Length L	UL
SLA29/105/106	30 m	M12 connector plug	54.3 mm	■
SLA29/116	30 m	Terminal compartment	65.5 mm	
SLA29/73c	30 m	M12 connector plug	54.3 mm	
SLA29/35/105/106	65 m	M12 connector plug	54.3 mm	■
SLA29/35/116 R=65m	65 m	Terminal compartment	65.5 mm	
SLA29/35/73c R=65m	65 m	M12 connector plug	54.3 mm	



Accessories

OMH-05	Mounting aid for circular profiles $\varnothing$ 12 mm or flat profiles 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket