

# R100 Series

## Diffuse Mode Sensors



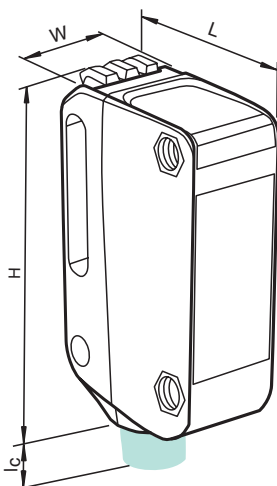
### Standard Technical Data

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

For detailed data and description, see the datasheet. Further products can be found online at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

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

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



#### Accessories

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