

R101 Series

Diffuse Mode Sensors



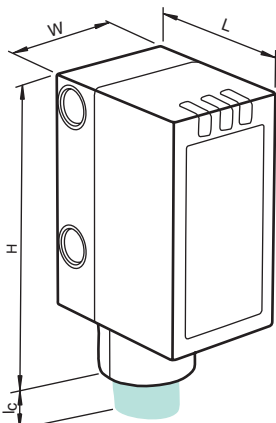
Standard Technical Data

Interface	IO-Link
Voltage type	DC
Operating voltage (min)	10 V
Operating voltage (max)	30 V
Housing length L	18.3 mm
Housing width W	13.9 mm
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For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

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

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



Accessories

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