

# LED Distance Sensor

Series	OWRB-4040-AA-S1	OWRB-4040-AE-S1
Picture		

## General data:

Measurement method	Triangulation	Triangulation
Light source	Red light LED	Red light LED
Wavelength	660 nm	660 nm
Receiving element	Position Sensitive Device (PSD)	Position Sensitive Device (PSD)
Connection type	M12 connector, 4-pin	M12 connector, 4-pin
Interface	None	None
Analog output current	No	Yes
Analog output voltage	Yes	No
Teach-in range	> 20 mm	> 20 mm
Beam type	Point	Point
Beam diameter	8 - 8 mm	8 - 8 mm
Power on indication	LED green	LED green
Display alarm / pollution	LED red	LED red
Electronic	Integrated	Integrated

## Measurement data:

Measuring range	50 - 400 mm	50 - 400 mm
Resolution	100 - 1000 $\mu$ m	100 - 1000 $\mu$ m
Linearity error	1.5 - 4 mm	1.5 - 4 mm
Measuring frequency in Hz (max.)	333	333
Temperature drift	< 0.1 %	< 0.1 %

## Outputs:

Interfaces	IO-Link	IO-Link
Output circuit	Analog	Analog
Voltage output	0 - 10 V	4 - 20 mA
Output current	< 100 mA	< 100 mA
Alarm output	Push	Push

## Power supply:

Power supply V DC	14 - 26 V DC	12 - 26 V DC
Power consumption max.	80 mA	80 mA
Short circuit protection	Yes	Yes
Reverse polarity protection	Yes	Yes

## Physical characteristics:

Housing material	Plastic (ASA, MABS)	Plastic (ASA, MABS)
Front (optics)	PMMA	PMMA
Ingress protection	IP67	IP67
Dimensions (W x H x D)	14.8 x 43 x 31 mm	14.8 x 43 x 31 mm
Construction type	Rectangular	Rectangular

## Environmental:

Operating temperature range	0 - +50 °C	0 - +50 °C
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