

# Laser Distance Sensor

Series	OWLL-8025-AD-S1	OWLL-8060-AD-S1
Picture		

## General data:

Measurement method	Triangulation	Triangulation
Light source	Laser	Laser
Wavelength	660 nm	660 nm
Laser class	1	2
Connection type	M12 connector, 8-pin	M12 connector, 8-pin
Interface	Serial	Serial
Teach-in	Button / external	Button / external
Beam type	Point	Point
Interference suppression	0.8 ms	0.8 ms
Power on indication	LED green	LED green
Switching status indicator	2 x LED yellow, red	2 x LED yellow, red
Display	Touch Display	Touch Display
Electronic	Integrated	Integrated

## Measurement data:

Measuring range	50 - 250 mm	100 - 600 mm
Resolution	1.4 - 6.3 $\mu$ m	3 - 24 $\mu$ m
Linearity error	$\pm$ 0.09 % Mr	$\pm$ 0.12 % Mr
Repeat accuracy	0.3 - 2 $\mu$ m	1 - 9 $\mu$ m
Measuring frequency in Hz (max.)	2500	2500
Temperature drift	0.03%	0.04%

## Outputs:

Interfaces	RS-485	RS-485
Output circuit	Analog	Analog
Baud rate	115200 bps	115200 bps
Voltage output	0 - 10 V	0 - 10 V
Current output	4 - 20 mA	4 - 20 mA
Output current	< 100 mA	< 100 mA
Alarm output	Push Pull	Push Pull

## Power supply:

Power supply V DC	15 - 28 V DC	15 - 28 V DC
Power consumption max.	75 mA	75 mA
Short circuit protection	Yes	Yes
Reverse polarity protection	Yes	Yes

## Physical characteristics:

Housing material	Aluminium	Aluminium
Front (optics)	Glass	Glass
Ingress protection	IP67	IP67
Dimensions (W x H x D)	26 x 74 x 55 mm	26 x 74 x 55 mm
Weight	130 g	130 g
Construction type	Rectangular	Rectangular

## Environmental:

Operating temperature range	-10 - +50 °C	-10 - +50 °C
Ambient light immunity	< 175 klx	< 300 klx