

Laser Distance Sensor

Series	OWLL- 8007-AD-S1	OWLL-8014-AD-S1
Picture		

General data:

Measurement method	Triangulation	Triangulation
Light source	Laser	Laser
Wavelength	660 nm	660 nm
Laser class	1	1
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	30 - 70 mm	40 - 140 mm
Resolution	0.7 - 1 μ m	1.2 - 2.7 μ m
Linearity error	\pm 0.05 % Mr	\pm 0.07 % Mr
Repeat accuracy	0.1 - 0.3 μ m	0.3 - 0.7 μ m
Measuring frequency in Hz (max.)	2500	2500
Temperature drift	0.01%	0.02%

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	< 28 klx	< 35 klx