

# Laser Distance Sensor

Series	OWTH-5130-AE-S1	OWTH-8400-AA-S1	OWTH-8400-AE-S1
Picture			
<b>General data:</b>			
Measurement method	Time-of-flight measurement		
Light source	Laser	Laser	Laser
Wavelength	660 nm	660 nm	660 nm
Laser class	2	2	2
Connection type	M12 connector, 5-pin, rotatable		
Interface	None	None	None
Analog output current	Yes	No	No
Analog output voltage	No	Yes	Yes
Teach-in	Button / external	Button / external	Button / external
Teach-in range	> 100 mm	> 100 mm	> 100 mm
Beam type	Point	Point	Point
Beam diameter	5 - 20 mm	5 - 20 mm	5 - 20 mm
Power on indication	LED green	LED green	LED green
Display alarm / pollution	LED red	LED red	LED red
Electronic	Integrated	Integrated	Integrated
<b>Measurement data:</b>			
Measuring range	200 - 13000 mm	200 - 4000 mm	200 - 4000 mm
Resolution	5000 µm	1300 µm	1300 µm
Linearity error	15 mm	15 mm	15 mm
Repeat accuracy	± 5 mm (with 40 klx ambient light)		
Measuring frequency (max.)	100Hz	100Hz	100Hz
<b>Outputs:</b>			
Output circuit	Analog	Analog	Analog
Current output	4 - 20 mA	0 - 10 V	4 - 20 mA
Output current	< 100 mA	< 100 mA	< 100 mA
Alarm output	Push	Push	Push
<b>Power supply:</b>			
Power supply V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Power consumption max.	250 mA	250 mA	250 mA
Short circuit protection	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes
<b>Physical characteristics:</b>			
Housing material	Aluminium	Aluminium	Aluminium
Front (optics)	Glass	Glass	Glass
Ingress protection	IP67	IP67	IP67
Dimensions (W x H x D)	25.4 x 66 x 51 mm	25.4 x 66 x 51 mm	25.4 x 66 x 51 mm
Construction type	Rectangular	Rectangular	Rectangular
<b>Environmental:</b>			
Operating temperature range	-25 - +50 °C	-25 - +50 °C	-25 - +50 °C
Ambient light immunity	< 40 klx	< 40 klx	< 40 klx