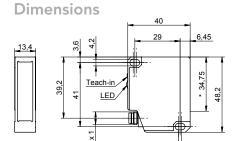




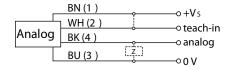
OWLSB series

Laser distance sensors in the OWLSB series were designed to carry out measurements on extremely lightabsorbing and shiny surfaces. These sensors now make it possible to carry out such demanding tasks as taking measurements on black rubber or very shiny plastic components. Sensors in the OWLSB series are able to deal with reflection levels of up to 0.5%. And the optimized software increases extraneous light reliability to 100 kLux; so that reliable measurements can be carried out under any kind of ambient condition. The series convinces with its compact IP67-compliant metal casing and a measuring range that moves between 50 and 200 mm.



Connection

* emitter axis



General data									
Ordercode	OWLSB 4001 AA S2	OWLSB 4001 AE S2	OWLSB 4010 AA S2	OWLSB 4010 AE S2	OWLSB 4020 AA S2	OWLSB 4020 AE S2			
Measuring distance Sd	50 ~ 6	00 mm	60 ~ 100 mm		100 ~ 200 mm				
Teach-in range min.	> 1	mm	> 4 mm		> 5 mm				
Resolution	< 0,015 mm		0,015 ~ 0,038 mm		0,039 ~ 0,150 mm				
Linearity error	< 0,04	15 mm	0,047 ~ 0,118 mm		0,123 ~ 0,457 mm				
Object reflectivity	> 0,5 % > 0,8 % > 2 %								
Adjustment	Teach-in: button / external								
Frequency	500 Hz								
Power on indication	LED green								
Soiled lens indicator	LED red								
Light source	pulsed red laser diode								
Wave length	650 nm								
Laser class	1								
Beam type	Line								
Interference suppression	< 30 ms								
Temperature drift	< 0,07 % Sde/K								
Electrical data									
Response time / release time	< 2 ms								
Voltage supply range	12 ~ 28 V DC								
Current consumption max	80 mA	100 mA	80 mA	100 mA	80 mA	100 mA			
Output circuit			ana	analog					
Output signal	0 ~ 10 V DC								
		4 ~ 20 mA	0 ~ 10 V DC	4 ~ 20 mA	0 ~ 10 V DC	4 ~ 20 mA			
Load resistance	> 100 Ω	4 ~ 20 mA <(+Vs-6 V)/ 0,02 A	0 ~ 10 V DC > 100 Ω	4 ~ 20 mA <(+Vs-6 V)/ 0,02 A	0 ~ 10 V DC > 100 Ω	4 ~ 20 mA <(+Vs-6 V)/ 0,02 Aw			
Load resistance Short circuit protection		< (+Vs - 6 V) /		<(+Vs-6V)/ 0,02 A		< (+Vs - 6 V)/			
Short circuit		< (+Vs - 6 V) /	> 100 Ω	< (+Vs - 6 V) / 0,02 A		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity		<(+Vs-6V)/ 0,02 A	> 100 Ω Ye	< (+Vs - 6 V) / 0,02 A		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs hanical data	< (+Vs - 6 V) / 0,02 A		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity protection		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs: hanical data 13,4 x 48,3	<(+Vs-6V)/ 0,02 A es to GND		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity protection Dimensions		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs hanical data 13,4 x 48, Rectal	<(+Vs-6V)/ 0,02 A es to GND		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity protection Dimensions Type		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs- hanical data 13,4 x 48,, Rectal Alum	<(+Vs-6V)/ 0,02 A es to GND 2 x 40 mm		< (+Vs - 6 V)/			
Short circuit protection Reverse polarity protection Dimensions Type Housing material		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs: hanical data 13,4 x 48,; Rectal Alum Gl:	<(+Vs-6V)/ 0,02 A es to GND 2 x 40 mm ingular		<(+Vs-6V)/			
Short circuit protection Reverse polarity protection Dimensions Type Housing material Front (optics)		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs: hanical data 13,4 x 48,; Rectal Alum Gl:	<(+Vs-6V)/ 0,02 A es to GND 2 x 40 mm ingular inium ess r M8 4 pin		<(+Vs-6V)/			
Short circuit protection Reverse polarity protection Dimensions Type Housing material Front (optics)		<(+Vs-6V)/ 0,02 A	> 100 Ω Yes, Vs. hanical data 13,4 x 48,; Rectar Alum Gla Connector ent condition	<(+Vs-6V)/ 0,02 A es to GND 2 x 40 mm ingular inium ess r M8 4 pin		<(+Vs-6V)/			

IP67

welonec.

Zum Hagenbach 7 • D-48366 Laer www.welotec.com • info@welotec.com

Fon: +49 (0)2554/9130-00 • Fax: +49 (0)2554/9130-10

Proection