

Compact Laser Distance VL60 sensors series

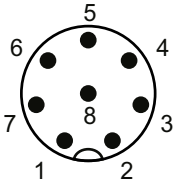


Highlights

Laser ranging sensor, Laser source, metal housing. Can be displayed by LED and set by button, Multiple interfaces. Suitable for automobile manufacturing, equipment manufacturing, crane anti-collision, AGV and others.

- High quality compact Laser Distance sensors series
- Up to 10m sensing distance
- High precision, accurate positioning
- Strong resistance to ambient light, compact size
- Analog, switch dual output
- LED display + LED indicator

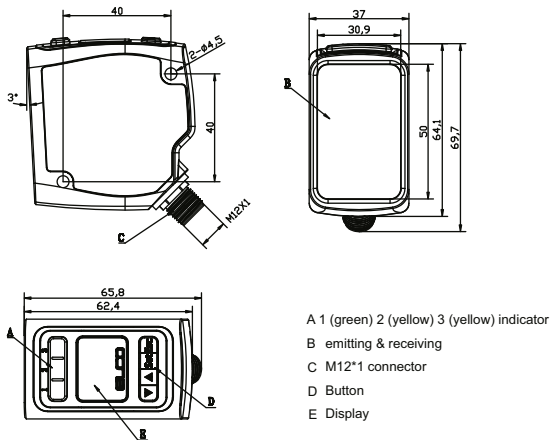
Input/Output circuit



CO12.8-2/WS/P
2m connector
Fig. 1

Serial number	Wire color	Function
1	white	N/A
2	brown	10...30VDC
3	green	Q _A ANALOG OUTPUT(I)
4	yellow	Q1
5	grey	Q2
6	pink	Q _V ANALOG OUTPUT(V)
7	blue	0V
8	red	TRIGGER

Dimension



- A 1 (green) 2 (yellow) 3 (yellow) indicator
- B emitting & receiving
- C M12*1 connector
- D Button
- E Display

Product parameters

Supply voltage	10-30VDC	
Ripple voltage	≤10%	
No-load current	≤150mA	
Power	0.8W	
Analog output	2×Push-Pull, Voltage 0-10V, current 4-20mA	
Switch output	<div><NPN output type> NPN open collector transistor Maximum sink current: 200mA Applied voltage: 24V DC or less (between output and 0V) Residual voltage: 1.5V or less</div>	<div><PNP output type> PNP open collector transistor Maximum sink current: 200mA External voltage: 24V DC or less (between output and +V) Residual voltage: 1.5V or less</div>
Spot size	About φ2cm/10m	
Light source	655nm laser source	
Operation indicator	Yellow LED indicator (lights up when the output is ON), through type on the receiver	Yellow LED indicator (lights up when the output is ON)
Power indicator	Green LED (lights up when power is applied)	
Environmental resistance	Population degree	3 (Industrial environment)
	Protection	IP67 (IEC)
	Temp.	-25 ~ +55°C (Becareful not to condense or freeze), when stored: -40 ~ +70°C
	Humidity	50%RH (70°C)
	Light intensity	Incandescent lamp: the illuminance of the light-receiving surface is below 5000lx
	EMC	EN 60947-5-2
	Voltage reverse protection	500V AC for one min. between all supply terminals connected together and enclosure
	Vibration resistance	10~55Hz frequency,0.5mm amplitude in X,Y and Z directions for 1.5 hours each
	Shock resistance	10~55Hz frequency,0.5mm amplitude in X,Y and Z directions for 1.5 hours each
Repeatability	2mm(150mm~600mm) 5mm(600mm~800mm) 10mm(800mm~1200mm) 2mm@600mm 3.5mm@1200mm	
Material	Enclosure: Stainless steel Lens: PMMA	
Response time	1.5ms / 5ms / 10ms switchable	
Dimensions	46*20*29mm	

Type	Distance	Light source	Output	Resolution	Connection	Wiring
VL60-Comming soon in 2022	2-10m	Red laser	2×Push-Pull Analog mA/V	5mm	M12 Connector	Fig.1