V₅ Group

Compact Laser Displacement VL40 sensors series



Highlights

Laser displacement sensor, 655nm laser source, metal housing, LED display and button

Suitable for pharmaceutical, packaging, automotive, non-standard equipment and others.

- High quality compact Laser Displacement sensors series
- Up to 800mm sensing distance
- LED digital display + teaching function
- Strong resistance to ambient light, compact size
- Analog/switch dual output

■ Input/Output circuit



Serial number	Wire color	Function
1	brown	1030VDC
2	white	Q _A ANALOG OUTPUT(I/U)
3	blue	0V
4	black	PNP/NPN
5	grey	N/A

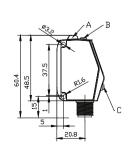


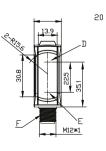
Serial number	Function	Core color of connector type
1	Power +	BN
2	IO-Link-DIO	WH
3	Power -	BU
4	IO-Link-C/Q	BK
5	NPN/PNP	GY

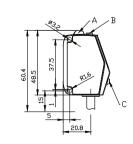


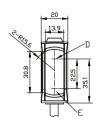
Serial number	Function	Core color of cable type	Core color of connector type
1	Power +	BN	BN
2	485B	GY	WH
3	Power -	BU	BU
4	NPN/PNP	BK	BK
5	485A	PK	GY

Dimension











- B function setting button
- C function adjustment button D emitting & receiving
- E M12*1 connector
- F LED display

Product parameters

Suppl	y voltage	10-30VDC				
Ripple	e voltage	≤10%				
No-lo	ad current	≤150mA				
Powe	r	1.5W				
Analo	g output	420mA, 05V or 010V				
Switch output		<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</npn>	<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</pnp>			
Comr	munication	RS48	RS485, IO-Link			
Light	source	ce 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)			
Pow	wer indicator Green LED (lights up when power is applied)		hen power is applied)			
	Population degree	3 (Industrial environment)				
nce	Protection	IP65(IEC)				
	Temp.	-25 \sim +55°C (Becareful not to condense or freeze), when stored: -40 \sim +70°C				
resista	Humidity	50%RH(70°C)				
1 2 1 -	Light intensity	Incandescent lamp: the illuminance of the light-receiving surface is below 5000lx				
Envi	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				
Rep	peatability	0.05mm@3570mm; 0.1mm@60160mm; 0.5r	nm@150400mm; 1mm@400600mm; 3mm@600800mm			
M	Material Enclosure: Stainless steel Lens: PMMA		ess steel Lens: PMMA			
Resp	Response time 1.5ms / 5ms / 10ms switchable					
Dimensions 60.4*20*35.5mm)*35.5mm				