

LK-G400 Series Sensor Head Specifications

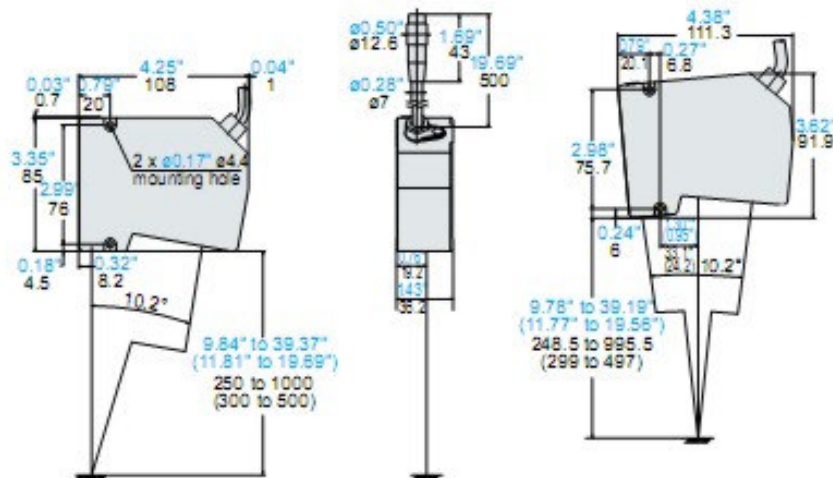
Model	LK-G402/LK-G407		LK-G502/LK-G507	
Mounting mode	Diffused reflection	Specular reflection	Diffused reflection	Specular reflection
Reference distance	15.75" 400 mm	15.67" 398 mm	19.69" 500 mm	19.59" 497.5 mm
Measuring range (1)	3.94" ± 100 mm	3.90" ± 99 mm	-9.84" to 19.69" -250 to +500 mm	-9.80" to 19.61" -249 to +498 mm
Light source	Red semiconductor laser			
Wavelength	650 nm (visible light), Class 2 (IEC)			
Output	0.95 mW max.			
Spot diameter (at reference distance)	Approx. 11.31 x 323.7 Mil 290 x 8300 µm (G407) Approx. ±11.31 Mil ±290 µm (G402)		Approx. 11.70 x 370.5 Mil 300 x 9500 µm (G507) Approx. ±11.7 Mil ±300 µm (G502)	
Linearity (2)	±0.05% of F.S.(F.S.= ±3.94" ± 100 mm)		±0.05% of F.S. (F.S.= ±9.84" ± 250 mm) Long range ±0.1% of F.S. (-9.84" to 19.69" -250 to +500 mm) High-accuracy ±0.02% of F.S. (-9.84" to 1.97" -250 to -50 mm) (F.S.= ±9.84" ± 250 mm)	
Repeatability (3)	0.08 Mil 2 µm			
Sampling frequency	20/50/100/200/500/1000 µs (Selectable from 6 levels)			
LED display	Near the center of the measurement: Green lights Within the measurement area: Orange lights Outside the measurement area: Orange flashing			
Temperature characteristics	0.01% of F.S./°C (F.S.= ±3.94" ± 100 mm)		0.01% of F.S./°C (F.S.= ±9.84" ± 250 mm)	
Protective construction	IP67 (IEC60529)			
Ambient light	Incandescent lamp or fluorescent lamp: 10,000 lux max.			
Ambient temperature	32 to 122° F (0 to +50°C), No condensation			
Relative humidity	35 to 85%, No condensation			
Vibrations	10 to 55 Hz, multiple amplitude 0.08" 1.5 mm; two hours in each direction of X, Y, and Z			
Material	Aluminum die-cast			
Weight (including the cable)	Approx. 380 g			

1. The value is obtained by measuring suppliers standard target (ceramic).
2. The value is obtained by measuring suppliers standard target (ceramic) with the Standard mode.
3. The value is obtained by measuring suppliers standard(SUS) with 4096 times of averaging at the reference distance.

LK-G407/LK-G402/LK-G507/LK-G502
Data in () applies to LK-G407/LK-G402

Diffused reflection type mounting

Specular reflection type mounting



*Measurement reference position