Data sheet

Spot diameter	Near(25mm): Approx. 290×790 ㎛ Reference(30mm): Approx. 240×660 ㎛ Far(35mm): Approx. 190×450 ㎛
Resolution	1㎛
Reference distance	30mm
Max. measurement range	20 to 40mm
Linearity	0.1% F.S. (in 25 to 35mm)
Temperature Characteristics	0.05% F.S./℃
Power supply	Using power from the amplifier unit.
Light source	Red semiconductor laser (wavelength: 660nm, IEC 60825-1:2014)
Light Source_Optical method	Diffuse reflection
Light Source_Laser class	Class 1 (IEC/EN), Class I (FDA(CDRH) CFR Part 1002)
Laser Pulse duration	Max. 2ms
Light Source_Output	Max. 300㎼
Operation indicator	Power indicator: red LED, Laser emission indicator: green LED, NEAR/FAR indicator: green LED
Insulation resistance	Over 20MΩ (at 500VDC megger)
Noise immunity	Square shaped noise by noise simulator (pulse width: 1㎲) ±500V
Dielectric strength	Between the charging part and the case: 1,000 VAC~ 50/60 Hz for 1 minute
Vibration	1.5 mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours
Shock	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times
Environment_Ambient illumination	Max. Incandescent lamp 10,000 lx
Environment_Ambient temperature	-10 to 50 ℃, Storage: -15 to 60 ℃ (no freezing or condensation)
Environment_Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection structure	IP67 (IEC Standards, except connector of extension cable)
Material	Case: Polycarbonate, Sensing part: Glass, Cable: Polyvinyl chloride
Amplifier unit compatibility	BD Series amplifier unit: 1
Weight	≈ 56 g (≈ 209 g)