



SD22-100-485-VA  
Sensor head

## Specifications

Model		SD22-100-485-VA
Reference distance (RF)		100mm
Measuring range		±50mm
Light source	Light source wavelength	655nm
	Laser class	Class II
	Laser output power	1mW
Laser point diameter (Laser dot size) <sup>①</sup>	Near-end	160*550μm
	Reference distance	300*1500μm
	Far-end	500*2500μm
Repeatability <sup>②</sup>		20μm
Linearity		±0.1% F.S.
Temperature characteristics		0.05% F.S./°C
Sampling refresh rate (Hz)		500/1000/2000/3000Hz (Choose from four levels)
I/O	Communication port	1 RS485
	Analog output	1 channel analog output, analog voltage (0~10V) or analog current (4~20mA) Analog voltage or current cannot be switched
	IO input	1 channel, supports functions, such as laser shutdown, remote teaching, sampling and holding, single-pulse trigger, zeroing, etc.
	IO output	1 channel, determines status of output.
Power voltage		DC12-24V±10%
Power consumption		60mA or less (DC 12V).120mA or less (DC24V)
Operating temperature		-10-50°C
Storage temperature		-20-70°C
Working humidity		35%-85% no condensation or frost
ESD protection		Contact discharge 4kV, air discharge 8kV, conforms with IEC61000-4-2 standard
EFT protection		Power port 2kV/5 or 100kHz, signal port 1kV/5 or 100kHz, conforms with IEC61000-4-4
Bumps		500m/s <sup>2</sup> (approx. 50G), 3 times along the X, Y, and Z axes
Vibrations		10-55Hz, double amplitude 1.5mm along X, Y, and Z axes for 2 hours
IP level		IP67, conforms with IEC 60529 standard
Dimensions (mm)		44×31×18

Weight (Including cables)	70
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Note: ① at the reference distance;

② Obtained from 512 average tests at the reference distance.

Product Dimensions

