



SD33-30-485-VA
Sensor head

Specifications

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| Model | | SD33-30-485-VA |
| Reference distance (RF) | | 30mm |
| Measuring range | | ±4mm |
| Light source | Light source wavelength | 655nm |
| | Laser class | Class II |
| | Laser output power | 1mW |
| Laser point diameter (Laser dot size) ^① | Near-end | 80*180μm |
| | Reference distance | 70*260μm |
| | Far-end | 100*400μm |
| Repeatability ^② | | 2μm |
| Linearity | | ±0.05% 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 ² (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) | | 60×50×22 |

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| Weight (Including cables) | 120 |
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Note: ① at the reference distance;

② Obtained from 512 average tests at the reference distance.

Product Dimensions

