

Laser snow depth sensor

Model ES-R226L



Introduction

ES-R226L laser snow depth transmitter adopts the phase method laser ranging principle and is a digital snow depth measurement instrument. The equipment is not easily affected by environmental factors. Based on universal laser ranging technology, temperature compensation is used to solve the temperature stability of the laser, which has the characteristics of high measurement accuracy and good stability. During heavy snow or even blizzards, good continuity of observation data can still be maintained. The equipment can be paired with our meteorological station products or selected for online uploading. Real time snowfall data can be uploaded, and observers can monitor snow depth in real-time, providing comparative observation data for the "automatic snow depth observation" project. The observation results are objective and the observation data is continuous, reducing the workload of observers and further improving observation quality and efficiency.

Main features

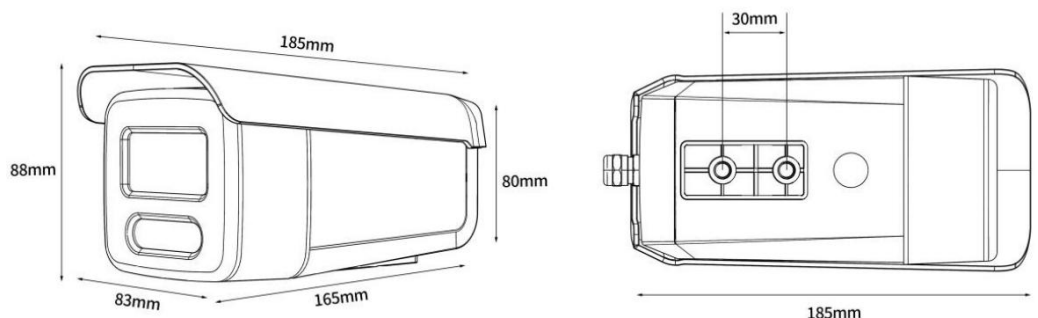
- Phase laser ranging principle, millimeter-level measurement accuracy
- According to the filter correction, the system automatically filters abnormal mutations to ensure accurate measurement
- Supports one-key zeroing, 485 command remote zeroing and other methods
- Automatically measure the tilt angle, and there is no need to measure the angle during installation
- IP65 protection level design, can work outdoors for a long time.
- Automatic heating function, when the temperature is lower than the set temperature, it automatically turns on heating to ensure stable measurement

Application

It is widely used in meteorological stations, monitoring, road traffic safety monitoring, aviation monitoring, agricultural production monitoring and other fields.

Dimension

Unit:mm



Specification

Range	0.05 ~ 1.5m
Accuracy	±1mm
Resolution	1mm
Signal output	RS485 (Modbus protocol)
Supply voltage	10~30V DC
Power consumption	0.8W (3.5W during heating)
Working temperature	-40°C~50°C
Working humidity	0% RH~95% RH (non condensing)
Laser type	635nm , < 1mw
Laser grade	grade ii
Single measurement time	0.05 ~ 1S
Spot size	Spot light 5mm@10m Line spot 3mmX150mm@10m
IP	IP65

Order guide

ES-V226L	Snow depth sensor	
	CODE	Signal output
	1	RS485
	2	4G
ES-V226L	1	Order example