Optical tipping bucket rain sensor
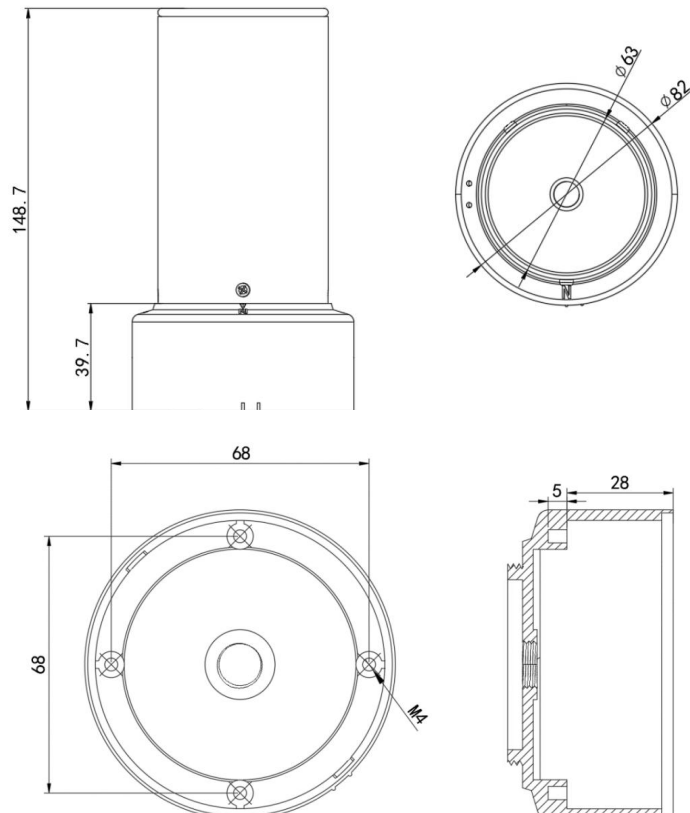
Model ES-R226OT

Introduction

ES-R226OT optical tipping bucket rain sensor is a product that measures rainfall. It uses optical sensing principles to measure rainfall, and has reliable rainfall detection. Different from traditional mechanical rain sensors, optical rain sensors are smaller, more sensitive and reliable, smarter, and easier to maintain. It also supports the use of high-precision photosensors internally, with accurate illumination measurement and the output value unit is Lux.

Application

It is widely used in industries and fields such as smart irrigation, ship navigation, mobile weather stations, automatic doors and windows, geological disasters, etc.

Dimension

Unit:mm

Main features

- Tipping bucket pulse counting method
- High sensitivity, small error, 0.1mm resolution
- Measure temperature without interference from the measuring environment
- High-strength ABS material, durable
- Can work normally in high temperature and high humidity environment
- Support optional illumination detection

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:
LVD 2014/35/EU Low Voltage
EMC 2014/30/EU Electromagnetic Compatibility
EMC 2014/35/EU Electromagnetic Compatibility

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Specification

Sense of rain diameter	6CM	
Supply voltage	9~30V DC	
Power consumption	Less than 0.24W (12V DC, current less than 20mA)	
Resolution	Rainfall	Standard 0.1mm
	Lighting	1Lux
Accuracy	Rainfall	±4%
	Lighting	±7%(25°C)
Greater instantaneous rainfall	24mm/min	
Light intensity range *	0-200,000 Lux	
Output mode	RS485 output, Dry contact pulse output	
Dry contact withstand voltage	≤30VDC	
Dry contact withstand current	≤0.5A	
Working temperature	-40~80°C	
Working humidity	0~95%RH (non-condensing)	
Working pressure range	standard atmospheric pressure ±10%	
Long-term stability	Light ≤5%/y	

Order guide

ES-R266OT	optical tipping bucket rain sensor			
	CODE	Functions		
	A	Rainfall		
	B	Rainfall and illuminance		
		CODE	Signal output	
		1	RS485	
		2	Pulse	
ES-R266OT	A	1	Order example	

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