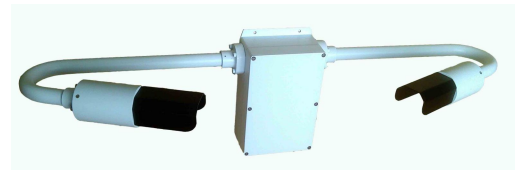The forward scatter measurement principle and unique design ensure the output accurate and reliable in all weather conditions and will not be influenced by local lights sources, even the flash. With a measurement range of 10m to 10km (Can be extended to 75km), the sensor is constructed from robust aluminum, suitable for use in road and aviation constructed from robust aluminum.

Finished with a high quality powder coat, the sensor will provide years of reliable service. Heating of the optical windows and sensor hoods is provided as standard allowing use in the harshest of conditions. Both optical windows are monitored for contamination and the visibility output is automatically compensated to reduce maintenance requirement.

FEATURES

- Applicable to highway, port, ship and environmental visibility detection
- Using aluminum alloy material, strong and lightweight
- Hood heating for use in extreme environments
- Simple structure, good working stability, high reliability, low energy consumption, easy to use and maintain
- Not affected by local lights
- Low maintenance requirement

TECHNICAL SPECIFICATION

Item	Technical Specification
Measurement Range	5-75000m
Measurement Principle	Forward scatter
Resolution	1m
Accuracy	±10%
Weather phenomena (optional A)	Identify four different types of precipitation: drizzle, light rain, moderate rain, and heavy rain Identify types of states such as rain, snow, thin fog (smoke), thick fog (smoke), etc
Weather phenomena (optional B)	Including the parameters in option A, it can also measure the intensity of precipitation: Measurement range: 0-200mm/h Resolution: 0.1mm (rainfall)
Data update rate	1s(default)
Supply	12-24VDC
Output	RS485,RS232
Power Consumption	Approx.1W, (heating: 6W MAX.)
Dimension	710*250*175mm(Aluminum alloy),646*328*176mm(stainless steel)
Installation	Hoop installation
Lifetime	>10 Years
Operating Temperature	-40℃-+50℃@0-100%RH(No condensation)
Weight	3kg(Aluminum alloy),20kg(stainless steel)
Shell Material	Aluminum alloy or stainless steel ①

① When used in corrosive environments such as the seaside, please choose stainless steel material

INSTALLATION

CE Complies with applicable CE directives.

Specifications subject to change without notice. Version 4.0

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