



Visibility with Ambient Light

S80004

- Forward-scatter measurement
- Lightweight, compact design

This Visibility sensor use the proven forward-scatter measurement principle to measure Meteorological Optical Range (MOR). The visibility sensor is well-protected against contamination: the optical components point downwards and hoods protect the lenses against precipitation, spray, and dust. The weatherproof design provides accurate measurement results and reduces the need for maintenance.

This sensor has a measurement range of 10 to 20,000 meters: long-range visibility measurement for diverse applications, including: harbors, coastal areas, heliports, windmill parks, or any location where visibility measurement is necessary.





Technical Specifications

S80004

Visibility

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|---------------------------|---|
| Operating Principle: | Forward-Scatter Measurement |
| Measurement Ranges (MOR): | 10 to 2,000 m (32 to 6500 ft) 10 to 20,000 m (32 to 65,600 ft) |
| Accuracy: | +/- 10%, range 10 to 10,000 m +/- 15%, range 10 to 20 km |

Electrical

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|--------------------|---|
| Power Consumption: | 3 W (electronics with dew heaters @ 12 VDC) |
| Options: | 2 W (luminance sensor with dew heater) |
| Outputs: | RS-232, RS-485 |

Environmental

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|------------------------|--------------|
| Operating Temperature: | -40 to +60°C |
| Operating Humidity: | 0 to 100% RH |
| Protection Class: | IP66 |

Physical

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|-------------|--|
| Dimensions: | 40.4 cm (w) x 69.5 cm (l) x 19.9 cm (h) 15.91 in (w) x 27.36 in (l) x 7.83 in (h) |
| Weight: | 3 kg (6.61 lb) |

Ambient Light

The PWL111 Background Luminance sensor is integrated in the Visibility Sensor assembly.

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|------------------------|-------------------------------|
| Range: | 4 to 20,000 cd/m ² |
| Accuracy: | 10% |
| Operating Temperature: | -40°C to +60°C |
| Humidity: | 0 to 100% RH |