



The IMT products are:

- Maintenance free
- Safety
- Environmental friendly

NAV AID Zone 1 Visibility / Fog Detector

Main Characteristics

The visibility detector will be installed on the railing on a side of the deck. It measures atmospheric visibility (meteorological optical range) by determining the amount of light scattered by particles (smoke, dust, haze, fog, rain, & snow) in the air that passes through the sample volume.

When the air is clear, very little light is scattered, resulting in a small signal received. More particles, result in more scattering, hence higher received signal

The detector has a visibility range of 15 mtrs up to 8 km. LED transmitter projects light in a forward direction into the air between the heads and the light scattered is collected by the receiver on the opposite head. The resulting signal strength is converted to a visibility range.

Specification/Technical Data

RX-TX heads	: GUB-type aluminium enclosures
Electronics Housing	: EJB-type aluminium enclosure
Measurement range	: 15 to 8.000 mtr.
Accuracy	: +/- 10 RMSE
Scatter Angle	: 42 deg nominal
Source	: 880 nm LED

Ambient temperature	: -40...+60 °C
Temperature Humidity	: 0...100 %RH
Ingress protection	: IP66
Operating voltage	: 12Vdc, 24Vdc or 230vdc
Power consumption	: 10 VA
Dimensions	: 1.170x915x560mm. (WxHxD) (excluding pole)
Weight	: 40 kgs.
Mounting	: Supplied ready to mount onto 122mm OD and 5mm wall thickness pipe.

Certification Details

ATEX Classification: ATEX Ex II 2GD EEx d IIB T5/T6

Options

- Hood mounted heaters for low "icing" temperature areas
- Calibration Kit

