



FD-410 EX FOG DETECTOR



The FD-410A fog detector is a microprocessor device designed to automatically detect and execute the control functions for a fog signal, traffic signage or other devices, when visibility has decreased below a preprogrammed level.

The fog detector is of the pulsed infrared, backscatter, single-station type. Typically programmed to transmit a beam of modulated infrared light every 2 minutes, it measures the amount of light reflected by the atmosphere to the receiver in the instrument. Two consecutive, affirmative samples, for example, will instantly actuate a relay if fog density exceeds a preset value. This value is programmed to correspond to a meteorological visibility between 0.5 and 2 NM.

The area sampled is in the form of a narrow sector 2 to 12 meters in front of the instrument.

Features

- Microprocessor-based design ensures maximum reliability and minimum maintenance; LED light source provides extremely long service life
- Automatic self-checking; Electronic pilot light system automatically compensates for fouling/fogging of the lens
- Remote on/off control terminals
- Requires no warm-up period; Heaters for windowpanes are not required.
- Extremely low power consumption; Ideal for solar power applications
- Ships, cars or other passing objects will not affect operation
- Remote monitoring of fault and visibility levels

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SPECIFICATIONS

Dimensions:	390mm x 540mm x 596mm (15.5" x 21.25" x 23.5")
Weight:	65 kg (145 lbs.)
Materials:	Stainless Steel
Mounting:	Top/Bottom Plate Mounting
Supply Voltage:	12 to 30 VDC (AC Optional)
Power Consumption:	2.4 Watts (Average)
Current Drain:	Average 200mA, 12 VDC
Light Source:	LED
Light Wavelength:	0.94 μm
Pulse Frequency:	14.4 kHz
Pulse Energy:	Main Light Transmitter--50 mW Pilot Light Transmitter--1.8 mW
Light Emitting/ Receiving Angle:	Transmitter--0.6° Receiver--6°
Sampling Zone:	Between 2 and 12 Meters
Sampling Time:	15 Seconds Every 2 Minutes (Standard) Programmable Options
Remote Alarm Output:	RS-232 or contact closure; RS-485 Optional
Visibility Data Transmission:	RS-232 via Radio Modem or RS-485 Over a Maximum of 2000 m of Wire
External Device Control Threshold:	3 Thresholds Programmable Between 0.5 and 2 NM Visibility
Operating Temperature:	-40°C to +53°C
Ingress Rating:	IP-66
Certificates:	EC-TYPE EXAMINATION CERTIFICATE Certificate No.: Intertek ITS09ATEX16407X Coding: II 2 G Ex d IIB T6 TA -40°C to +53°C Gb Certificate No.: IECEx ITS 10.0038X Coding: Ex d IIB T6 Ta -40°C to +53°C Gb ELECTROMAGNETIC COMPATIBILITY (EMC) DIRECTIVE CERTIFICATE NUMBER: Epsilon 04TEST1297

*Specifications subject to change without notice.

