

LG UV Flame Detector

Model No: LG1093AA24

Description:

Industrial power generation gas turbine installations demand the superior protection provided by the UV Flame Monitoring System. The flame monitor system detects the ultraviolet radiation emitted by a hydrocarbon flame and produces an output signal to indicate a flame or no flame condition.

The devices are sensitive and respond rapidly (0.1 sec typical) and support applications where multiple voltages are necessary.

The products have a mounting interface of a 1inch NPT male & a 3/4inch internal NPT female and a control panel connection with a Termination shielded cable having 1inch outside conduit thread. They operate within temperatures ranging from - 40°F to +350°F.

TECHNICAL DATA

Sensor: UV flame scanner

Window: Quartz glass

Average Spectral Sensitivity: 190 - 290nm

Sensitivity: 250cpm = 10-13W/cm² λ: 200nm

Output: @ continuous flame > 15Hz

Background @ normal Room/Daylight less than 5min⁻¹

Response Time: < 200ms

Power Requirements: 260 - 350VDC from Amplifier, recomm. 325VDC +/- 25VDC

Pulse Output: 275 sec⁻¹ +/- 25 sec⁻¹

Temperature Range: -28°C (-18°F) to 177°C (350°F)

Temperature at Mount: 427°C (800°F) Max.

Relative Humidity: 100%

Process Pressure: 300psi (2.1MPa) at 315°C (600°F)

Vibration: up to 18mm/sec @ 200Hz up to 9mm/sec @ 500Hz or equivalent of 2.5g acceleration

0.07p-p displacement 5 to 15Hz 1g +/-0.2g 15 to 120Hz

