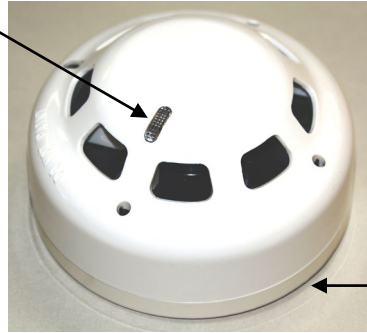


**APPLICATIONS**

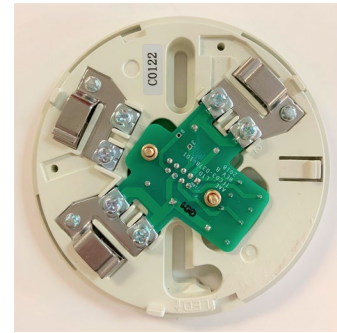
The AAE photoelectric smoke detector is a reliable, high-quality detector that is used in the AAE FPS Appliance.

Based on same design approved under many STC's for installation in the Lavatories on aircraft models Fokker F.28, Boeing DC9, Boeing MD80, Boeing B727, Lockheed L-100, Boeing B767, Boeing B747, British Aerospace 1-11-200/-400; and in other areas of the Falcon F900, DHC-7, HS748, CL601, and many others.

Detector Status LED



Head P/N TFC13-0030-1



Base P/N TFC13-0029-1

**STANDARD FEATURES**

- 360° view of detector status LED
- Low profile, Height is 2.0" (with base) and Diameter is 3.93"
- Low standby current, 59µA at 24 VDC
- Highly stable operation, RF/Transient protection
- One built-in power/sensitivity supervision/alarm LED
- Automatic Sensitivity window verification function meets outlined requirements in NFPA 72, Chapter 2 & 7, Inspection, Testing and Maintenance.
- Magnetic Test Feature

**OPERATION**

Features one bi-colored LED for indication of status. In a normal standby condition, the LED **flashes "Green"** every 3 seconds. When the detector senses that its sensitivity has drifted outside the UL listed sensitivity window, the LED will **"flash Red"** every 3 seconds. When the detector senses smoke and goes into alarm, the status LED **"latches solid on RED"**.

**SPECIFICATIONS**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Light Source .....GaAIAs Infrared Emitting Diode</li> <li>• Nominal Rated Voltage ..... 24 VDC</li> <li>• Working Voltage ..... 8-35.0 VDC</li> <li>• Maximum Voltage ..... 42 VDC</li> <li>• Air Velocity Range .....0-4000 fpm</li> <li>• Maximum Humidity ..... 95% RH Non-Condensing</li> <li>• Operating Temperature.....0°C to +49°C</li> </ul> | <ul style="list-style-type: none"> <li>• Supervisory Current ..... 59µA at 24 VDC</li> <li>• Surge Current ..... 160µA max. at 24 VDC</li> <li>• Alarm Current ..... 150µA max. at 24 VDC</li> <li>• Sensitivity Test Feature ..... Automatic Sensitivity Window Verification Test</li> <li>• Weight (assembled with base)... Approx. 0.35 lb (0.158 kg)</li> <li>• Altitude ..... Not affected by Altitude</li> </ul> |
|--|--|

**RELIABILITY**

- MEAN TIME BETWEEN FAILURE (MTBF) ..... Minimum rated life 60,000 hours, and per MIL-Handbook 217B sect. 2
- FAILURE MODE AND EFFECT ANALYSIS ..... Failure may cause alarm or abnormal test.
- MEAN TIME BETWEEN REPAIR ..... On condition
- MEAN TIME TO REPAIR ..... 10 minutes to replace unit
- SHELF LIFE ..... No shelf-life limits when stored properly

**SENSITIVITY TEST FEATURE**

The Photoelectric Smoke Detector has a built-in automatic sensitivity test feature. In normal condition, the status LED flashes green. When the sensitivity drifts outside of its sensitivity limits, the status LED flashes red. In the alarm state, the status LED is red continuously. When the sensitivity drifts outside of its sensitivity limits and the status LED flashes red, the device needs to be cleaned or returned to the factory for cleaning or calibration.