

Flame Detector IR² 16581

- **Dual infrared sensor according to EN 54-10, Class 1**
- **Detection of open flames through flickering infrared radiation**
- **High immunity to deceptive alarms**
- **Selectable response delay**
- **Relay contacts for alarm and fault**
- **Integrated optical test function**



Description

The Flame Detector 16581 responds to the flickering infrared radiation of open flames. Therefore, it is extremely well suitable for the detection of fires which are difficult to detect with common smoke detectors – for example, alcoholic fires or gas flames.

The detector is ideal for the following applications:

- Aviation and automotive industry
- Paint shops
- Warehouses
- Textile industry
- Waste treatment

With two independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can safely distinguish between alarm situations and deceptive alarms. Therefore, it is very insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs.

The detector complies with EN 54-10, Class 1, which means it is suitable to detect flames up to a distance of 25m.

The response delay of the detector can be selected in 4 steps between 1 and 8s. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. The detector can be integrated into an ADM loop by means of a conventional zone module.

A simple test of the detector can be carried out by means of the integrated optical self test function, which does not require additional tools. During this self test, a built-in infrared source simulates a fire situation which activates the detector.

The detector has been designed for indoor use. The optional Detector Mounting Bracket 7127 allows stepless horizontal and vertical adjustment for the easy adaptation of the detector to the required monitoring area.

For use in explosion-hazardous areas, an Ex version of the flame detector is available on request.



0832-CPD-0821

Specifications

| | |
|---------------------------------|------------------------------------|
| Operating voltage | 14 – 28VDC |
| Current consumption at 24VDC | max. 8mA (quiescent), 14mA (alarm) |
| Monitored angle | 90° |
| Range | max. 25m |
| Spectral sensitivity | 1 – 2.7µm |
| Contact rating of relay outputs | max. 250mA at 30VDC |
| Ambient temperature | -10°C to +55°C |
| Dimensions W x H x D | 108 x 142 x 82 (mm) |
| Colour | sky blue, RAL 5015 |
| Weight | 2kg |
| Protection class | IP65 |
| Approvals | LPCB 729a/07 0832-CPD-0821 |
| Order number | 243010 |
| Order name | Flame Detector/IR2 16581 |

Detector Mounting Bracket

| | |
|-----------------------------|---|
| Material | stainless steel |
| Adjustment range vertical | 0 to -45° |
| Adjustment range horizontal | ±45° |
| Dimensions W x H x D | 82 x 98 x 90 (mm) |
| Weight | 650g |
| Order number | 249141 |
| Order name | Detector Mounting Bracket/Flame Detector 7127 |



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