# Flame Detectors

## C7915 Infrared (Lead Sulfide) Flame Detector

The C7915 Flame Detectors include a lead sulfide photocell that is sensitive to the infrared radiation emitted by the combustion of fuels such as natural gas, oil, and coal.
- Used for combination or dual-fuel applications.
- Detects pilot and main flame.
- Mounts quickly and easily on a standard 3/4 in. sighting pipe.
- Works where flame rod or rectifying photocell mounts are difficult to apply.
- The C7915 includes 50019469-001 Bushing with magnifying lens.
- The C7915 uses photoconductive lead sulfide cells 32007255-001.

**Description:** Infrared (Lead Sulfide) Flame Detector
**Application:** Used for combination or dual-fuel applications
**Dimensions, Approximate:** 1 1/4 in. diameter x 2 1/4 in. long (32 mm diameter x 58 mm long)
**Mounting:** 3/4 in. NPT
**Electrical Connections:** Two no.18 AWG wires
**Ambient Temperature Range:** -20F to 125F operating range (-18C to 52 operating range)
**Comments:** Infrared (Lead Sulfide) Flame Detector

**Used With:** Flame Amplifiers: R7852

**Approvals:**
**Canadian Standards Association:** Certified: Master Report LR95329-1
**Factory Mutual:** Approved: Report No. 24181.03
**Swiss RE (formerly IRI):** Acceptable
**Underwriters Laboratories, Inc.** Listed: File No. MP268, Guide No. MCCZ

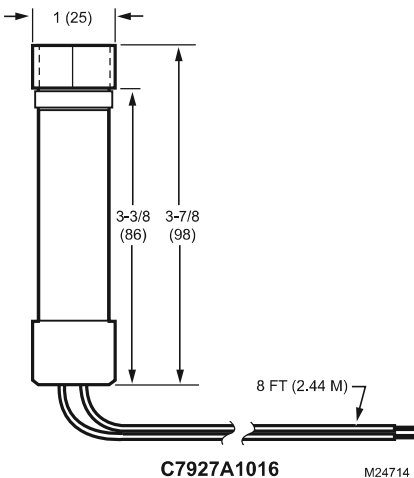| Product Number | Type | Lead Length (inch) | (mm) | Includes |
|---|---|---|---|---|
| C7915A1010 | Infrared (Lead Sulfide) | 30 in. | 762 mm | With magnifying lens, 32007255-001 Cell |
| C7915A1028 | Infrared (Lead Sulfide) | 48 in. | 1219 mm | With magnifying lens, 32007255-001 Cell, Orifice, heat block, and reducer bushing |
| C7915A1036 | Infrared (Lead Sulfide) | 96 in. | 2438 mm | With magnifying lens, 32007255-001 Cell |

## C7927 Solid State Ultraviolet Flame Detector

The Solid State Ultraviolet Flame Detectors detect the ultraviolet radiation emitted by combustion flames. The flame detectors are used with Honeywell flame safeguard controls to provide flame supervision for gas, oil, or combination gas-oil burners.
- Properly installed the flame detectors are pressure rated for 5 psi.
- Flame detector is used with only the R7851B Flame Amplifier and the 7800 SERIES controls.
- Has an integral collar threaded (internal 1/2-14 NPSM) for mounting on a one-half inch sight pipe.

**Dimensions in inches (millimeters)**

1 (25)

3-3/8 (86)   3-7/8 (98)

8 FT (2.44 M)

C7927A1016   M24714

**Description:** Ultraviolet Flame Detector
**Application:** Gas, Oil, or combination burners-intermittent operation only (burner cycled at least once each 24 hours).
**Mounting:** 1/2 in NPT pipe mounting
**NEMA Rating:** NEMA 1
**Electrical Connections:** 2 NEC Class 1 leadwires
**Ambient Temperature Range:** -40F to +200F (-40 C to +93 C)

**Approvals:**
**Canadian Standards Association:** Report 158158
**Factory Mutual:** Approved: Report No. 3011020
**Swiss RE (formerly IRI):** Acceptable
**Underwriters Laboratories, Inc.** Component Recognized: File No. MP268

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| Product Number | Type | Lead Length (inch) | (mm) | Comments | Used With |
|---|---|---|---|---|---|
| C7927A1016 | Ultraviolet, Minipeeper | 96 in. | 2438 mm | Detects ultraviolet radiation in flames | Flame Amplifiers: R7851B |