

R7824; R7847; R7848; R7849; R7851; R7861; R7886 Flame Signal Amplifiers



Type: Flame Amplifier

Dimensions, Approximate: 3 9/16 in. wide, 3 3/8 in. high, 7/8 in. deep.
(91 mm wide, 85 mm high, 23 mm deep.)

Humidity Rating (%RH): 85% RH continuous, non-condensing

Vibration: 0.5 G continuous

Weight: 2.5 oz. (71g)

Approvals:

Canadian Standards Association: Certified: File No. LR95329-3

Solid state plug-in amplifiers that respond to flame detector inputs to indicate the presence of flame when used with 7800 SERIES relay modules.

- Flame failure response time of 2.0 or 3.0 seconds.
- Flame signal strength ranges from 0.0 to 5.0 Vdc.
- Plug into 7800 relay module through printed circuit board edge connector keyed for proper orientation.
- Flame signal test jacks to measure amplifier flame signal voltage.
- Color-coded labels identify flame detection type:
- Blue—pulsed rectification.
- Dynamic Self-Check Amplifier test the detectors and all electronic components in the flame detection system; 7800 SERIES relay module locks out on safety shutdown with flame detection system failure.
- Compatible with existing Honeywell flame detectors (order separately).

Factory Mutual: Approved: Report No. J.I.1V9A0.AF

Industrial Risk Insurers: Acceptable

Underwriters Laboratories, Inc: Listed: File No. MP268, Guide No. MCCZ

Accessories:

123514A Flame Simulator, Rectification Type Flame Amplifiers

| Product Number | Flame Failure Response Time | Self Checking? | Temperature Rating (Operating Range) | | Use with Flame Sensor | Use with Primary Control | Comments |
|----------------|-----------------------------|--------------------|--------------------------------------|---------------|--|---------------------------|--------------|
| | | | (F) | (C) | | | |
| R7824C1002 | 3.0 sec | Dynamic Self-Check | -40 F to 140 F | -40 C to 60 C | C7024E, F Flame Detector | RM7824 | Color: Green |
| R7847A1025 | 0.8 sec, 1.0 sec | None (standard) | -40 F to 140 F | -40 C to 60 C | Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 | 7800 SERIES Relay Modules | Color: Green |
| R7847A1033 | 2.0 sec, 3.0 sec | None (standard) | -40 F to 140 F | -40 C to 60 C | Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 | 7800 SERIES Relay Modules | Color: Green |
| R7847A1074 | 0.8 sec, 1.0 sec | None (standard) | -40 F to 140 F | -40 C to 60 C | Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 Leadwire Run >50' | 7800 SERIES Relay Modules | Color: Green |
| R7847A1082 | 2.0 sec, 3.0 sec | None (standard) | -40 F to 140 F | -40 C to 60 C | Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 Leadwire Run >50' | 7800 SERIES Relay Modules | Color: Green |
| R7847B1023 | 0.8 sec, 1.0 sec | AMPLI-CHECK | -40 F to 140 F | -40 C to 60 C | Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 | 7800 SERIES Relay Modules | Color: Green |
| R7847B1031 | 2.0 sec, 3.0 sec | AMPLI-CHECK | -40 F to 140 F | -40 C to 60 C | Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 | 7800 SERIES Relay Modules | Color: Green |
| R7847B1064 | 0.8 sec, 1.0 sec | AMPLI-CHECK | -40 F to 140 F | -40 C to 60 C | Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 Leadwire Run >50' | 7800 SERIES Relay Modules | Color: Green |
| R7847B1072 | 2.0 sec, 3.0 sec | AMPLI-CHECK | -40 F to 140 F | -40 C to 60 C | Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C Gas: Rectifying Flame Rods C7004, C7007, C7005, C7008, C7009, Q179 Leadwire Run >50' | 7800 SERIES Relay Modules | Color: Green |
| R7847C1005 | 2.0 sec, 3.0 sec | Dynamic Self-Check | -40 F to 140 F | -40 C to 60 C | Gas, oil, coal: Ultraviolet Flame Sensor C7012E, F | 7800 SERIES Relay Modules | Color: Green |
| R7848A1008 | 2.0 sec, 3.0 sec | None (standard) | -40 F to 140 F | -40 C to 60 C | Gas, oil, coal: Infrared (lead sulfide) C7015 | 7800 SERIES Relay Modules | Color: Red |