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

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).

Approvals:
Canadian Standards Association: Certified: File No. LR95329-3
Factory Mutual: Approved: Report No. J.I.1V9A0.AF
Industrial Risk Insurers: Acceptable
Underwriters Laboratories, Inc. Listed: File No. MP268, Guide No. MCCZ

Product Number	Flame Failure Response Time (sec)	Self Checking	Use With Flame Sensor	Use With Primary Safety Control	Comments
R7824C1002	3.0 sec	Dynamic Self-Check	C7024E, F Flame Detector	RM7824	Color: Green
R7847A1025	0.8 sec or 1.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179	7800 SERIES Relay Modules	Color: Green
R7847A1033	2.0 sec or 3.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847A1074	0.8 sec or 1.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Leadwire Run >50'	7800 SERIES Relay Modules	Color: Green
R7847A1082	2.0 sec or 3.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Leadwire Run >50'Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847B1023	0.8 sec or 1.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179	7800 SERIES Relay Modules	Color: Green
R7847B1031	2.0 sec or 3.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847B1064	0.8 sec or 1.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Leadwire Run >50'	7800 SERIES Relay Modules	Color: Green
R7847B1072	2.0 sec or 3.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Leadwire Run >50' Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7848A1008	2.0 sec or 3.0 sec	None (standard)	Gas, oil, coal: Infrared (lead sulfide) C7015	7800 SERIES Relay Modules	Color: Red
R7848B1006	2.0 sec or 3.0 sec	Ampli-Check	Gas, oil, coal: Infrared (lead sulfide) C7015	7800 SERIES Relay Modules	Color: Red
R7849A1015	0.8 sec or 1.0 sec	None (standard)	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849A1023	2.0 sec or 3.0 sec	None (standard)	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849B1013	0.8 sec or 1.0 sec	Ampli-Check	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849B1021	2.0 sec or 3.0 sec	Ampli-Check	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7851B1000	2.0 sec or 3.0 sec	Ampli-Check	Gas, oil, coal: Optical (UV, IR, Visible light) C7927, C7935, C7915, C7962	7800 SERIES Relay Modules	Color: White
R7851B1018	0.8 sec or 1.0 sec	Ampli-Check	—	7800 SERIES Relay Modules	Color: White
R7851C1008	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: optical (UV only) C7961E,F	7800 SERIES Relay Modules	Color: White
R7861A1026	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: Ultraviolet Flame Sensor C7061	7800 SERIES Relay Modules	Color: Purple

Flame Amplifiers

Product Number	Flame Failure Response Time (sec)	Self Checking	Use With Flame Sensor	Use With Primary Safety Control	Comments
R7861A1034	0.8 sec or 1.0 sec	Dynamic Self-Check	Gas, oil, coal: Ultraviolet Flame Sensor C7061	7800 SERIES Relay Modules	Color: Purple
R7886A1001	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: Adjustable Sensitivity Ultraviolet Flame Sensor C7076	7800 SERIES Relay Modules	Color: Blue

Flame Amplifier Parts

Product Number	Description	Used With
32005301-001	T Filter for Rectification Amplifiers	R7847; R7247