

Flame Amplifiers

7800 SERIES and R7140 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 0.8 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
- 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. 1V9A0.AF

Swiss Re: 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/U	3.0 sec	Dynamic Self-Check	C7024E, F Flame Detector	RM7824	Color: Green
R7847A1025/U	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/U	2.0 sec or 3.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004, C7005, C7007, C7008, C7009, Q179 Gas, oil, coal: Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847A1074/U	0.8 sec or 1.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004,5,7,8, or 9, Q179 for impedance matching for leadwire runs > 50' or Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847A1082/U	2.0 sec or 3.0 sec	None (standard)	Gas: Rectifying Flame Rods C7004,5,7,8, or 9, Q179 for impedance matching for leadwire runs > 50' or Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847B1023/U	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/U	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/U	0.8 sec or 1.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004,5,7,8, or 9, Q179 for impedance matching for leadwire runs > 50' or Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847B1072/U	2.0 sec or 3.0 sec	Ampli-Check	Gas: Rectifying Flame Rods C7004,5,7,8, or 9, Q179 for impedance matching for leadwire runs > 50' or Ultraviolet Flame Sensor C7012A, C	7800 SERIES Relay Modules	Color: Green
R7847C1005/U	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: Ultraviolet Flame Sensor C7012E, F	7800 SERIES Relay Modules	Color: Green
R7848A1008/U	2.0 sec or 3.0 sec	None (standard)	Gas, oil, coal: Infrared (lead sulfide) C7015	7800 SERIES Relay Modules	Color: Red
R7848B1006/U	2.0 sec or 3.0 sec	Ampli-Check	Gas, oil, coal: Infrared (lead sulfide) C7015	7800 SERIES Relay Modules	Color: Red
R7849A1015/U	0.8 sec or 1.0 sec	None (standard)	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849A1023/U	2.0 sec or 3.0 sec	None (standard)	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849B1013/U	0.8 sec or 1.0 sec	Ampli-Check	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7849B1021/U	2.0 sec or 3.0 sec	Ampli-Check	Gas, Oil: Minipeeper C7027A, C7035A, C7044	7800 SERIES Relay Modules	Color: Purple
R7851B1000/U	2.0 sec or 3.0 sec	Ampli-Check	Gas, Oil, Coal: Optical (UV, Visible Light) C7927, C7962	7800 SERIES Relay Modules	Color: White
R7851B1018/U	0.8 sec or 1.0 sec	Ampli-Check	Gas, Oil, Coal: Optical (UV, Visible Light) C7927, C7962	7800 SERIES Relay Modules	Color: White
R7851C1008/U	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: optical (UV only) C7961E,F	7800 SERIES Relay Modules	Color: White
R7852A1001/U	2.0 sec or 3.0 sec	None (standard)	Gas, oil, coal: Infrared (lead sulfide) C7915	7800 SERIES Relay Modules	Color: Red/White
R7852B1009/U	2.0 sec or 3.0 sec	Ampli-Check	Gas, oil, coal: Infrared (lead sulfide) C7915	7800 SERIES Relay Modules	Color: Red/White
R7861A1026/U	2.0 sec or 3.0 sec	Dynamic Self-Check	Gas, oil, coal: Ultraviolet Flame Sensor C7061	7800 SERIES Relay Modules	Color: Purple
R7861A1034/U	0.8 sec or 1.0 sec	Dynamic Self-Check	Gas, oil, coal: Ultraviolet Flame Sensor C7061	7800 SERIES Relay Modules	Color: Purple
R7886A1001/U	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