

R8184M Protectorelay® Oil Burner Control



Operates the oil burner and oil valve (if desired) in response to a call for heat from a low voltage control circuit.

- Ignition is on whenever the burner is on (intermittent ignition-also called constant ignition).
- Solid state flame sensing circuit.
- External button to manually reset safety switch after lockout.
- Enclosed safety switch must be manually reset after safety shutdown.
- R8184M includes 40 VA transformer and Y and G terminals for connection of cooling equipment.
- Mounts on standard 4 x 4 in. junction box.
- C554A Cadmium Sulfide Flame Detector and a 24 Vac thermostat required.

Dimensions, Approximate: 4 3/8 in. high x 4 1/8 in. wide x 2 1/2 in. deep (111 mm high x 104 mm wide x 64 mm deep)

Ignition Type: Intermittent

Temperature Range: -40 F to +130 F (-40 C to +54 C)

Approvals:

Underwriters Laboratories Inc. UL Component Recognized; File no. MP268, guide no. MCCZ2

Residential
Combustion Controls

Product Number	Electrical Rating, Contacts	
	(Full Load)	(Locked Rotor)
R8184M1051	7.4 A @ 120 Vac; 3.7 a @ 240 Vac	44.4 A @ 120 Vac; 22.2 A @ 240 Vac

Product Number	Timing, Safety Switch	Mounting Bracket	Description
* R8184M1051	45 sec.	Mounts on standard 4 x 4 in. junction box.	Protectorelay® Oil Burner Control with 45 seconds lock out timing

* TRADELINE models • SUPER TRADELINE models

RA116; RA117 Protectorelay® Controls



One-piece, stack-mounted oil burner primary controls that cycle the burner on and shut down the burner on flame loss or system malfunction.

- Combine a Protectorelay® unit for cycling the burner and a Pyrostat® flame detector for sensing temperature changes of flue gases up to 1000 F (556 C).
- Manual reset of safety switch required after ignition failure completely shuts off main burner.
- Include manual trip safety switch to assure burner shutdown during servicing.
- Mount with flange for mounting on curved or flat surfaces.
- Use with line voltage or 24 Vac Control Circuit.

Dimensions, Approximate: 6 in. high x 5 3/16 in. wide x 3 3/16 in. deep (152 mm high x 132 mm wide x 81 mm deep)

Approvals:

Canadian Standards Association: CSA Certified; File no. LR95329-1
Underwriters Laboratories Inc. UL Listed; File no. MP268, Guide no. MCCZ

Product Number	Ignition	Timing, Safety Switch	Mounting Bracket	Description
* RA116A1055	Intermittent ignition	75 sec. Nominal	Mount with flange for mounting on curved or flat surfaces.	Protectorelay® Oil Burner Control with 75 seconds lock out timing
* RA117A1047	Interrupted ignition	75 sec. Nominal	Mount with flange for mounting on curved or flat surfaces.	Protectorelay® Oil Burner Control with 75 seconds lock out timing

* TRADELINE models • SUPER TRADELINE models