

R8184M Protectorelay® Oil Burner Control



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

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.

Product Number	Electrical Rating, Contacts	
	(Full Load)	(Locked Rotor)
R8184M1051/U	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/U	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



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)

Ignition Type: Intermittent

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.

Approvals

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

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

Oil Primary Control Parts

Product Number	Description
120320/U	Replacement Cell Assembly, 400-1600 Ohm Sensitivity
130367/U	Replacement Cell Assembly, 400-1000 Ohm Sensitivity
32611/U	Grommet (Bulk Mdse)
4074BJS/U	Oil line mounting bracket assembly, including nut and screw