R4750B/C

Protectorelay Flame Safeguard Controls

The **R4750B** and **R4750C** are flame safeguard controls used to provide automatic operation and safety of combustion in medium sized gas-fired burners that have a maximum burning capacity of 580kW/h (500,000Kcal/h) or less.

They are constructed from reliable components to ensure that the combustion equipment operates in the correct sequence without fail.

Specifications

Model No.	R4750B	R4750C
Flame detector	Flame rod **C7007B**, **C7008A**	**C7027A**, **C7035A**
Power consumption	7W +25% max.	
Ambient temperature	-20 to +60°C	
Ambient humidity	90% RH at 40°C	
Mass	680g	
Flame/alarm indicator LED	Lit: normal combustion	
	Flashing: loss of flame while burner operating, ground short-circuit, or false flame signal at start-up	

Contact Ratings

Terminal No.	Load	Contact rating
5	Ignition transformer	R4750B: 350VA
		R4750C: 250VA
3	Pilot valve	200VA
4	Main valve	200VA (note)
A1, A2	Alarm	75VA

Note: For solenoid valve: 400VA at opening, and 200VA during hold

Selection Guide

Model No.	Power (50/60Hz)	Sequence timing (at normal temperature, normal humidity, rated voltage)				
		Prepurge	Ignition trial	Post-ignition	Lockout	Flame response
R4750B108-2	100Vac	33 ± 8s	4 ± 1s	11 ± 4s	Max. 23s	1.5 ± 0.5s
R4750B208-2	200Vac					(At 2µA flame current)

Note: Sequence in event of flameout: non-recycle

Model No.	Power (50/60Hz)	Sequence timing (at normal temperature, normal humidity, rated voltage)					
		Prepurge	Ignition trial	Spark	Post-ignition	Lockout	Flame response
R4750C1007	100Vac	2.5 ± 1.5s	4 ± 1s	5 ± 1s	7.5 ± 2.5s	Max. 30s	1.5 ± 0.5s
R4750C1015	200Vac						(At 5.5µA flame current)
R4750C1023	100Vac	33 ± 6s					
R4750C1031	200Vac						
R4750C1049	100Vac	40 ± 20s					
R4750C1056	200Vac						

Accessories (sold separately)

Model No.	Description
83968019-001	Surge absorber

Dimensions (Unit: mm)
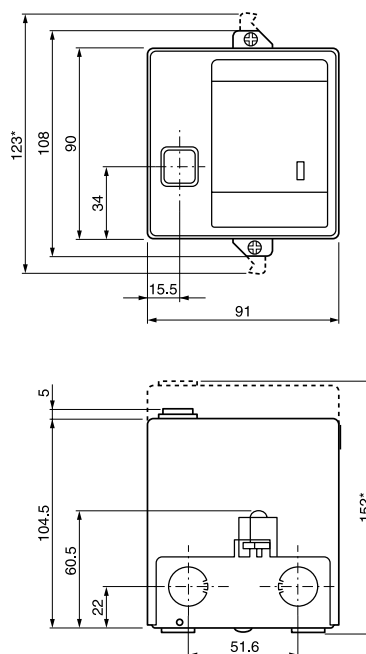
*Dimensions required for mounting and removing body.