

S89C,G,H; S890 Hot Surface Ignition Module



Application: Provide electronic control of direct hot surface ignition systems used on gas fired furnaces, boilers, and other heating appliances.

Dimensions, Approximate: 5 1/4 in. high x 4 1/16 in. wide x 1 15/16 in. long (133 mm high x 103 mm wide x 49 mm deep)

Type of Gas: Natural or LP

Electrical Ratings: 24 Vac

Frequency: 60 Hz

Flame Sense: Single Rod

Ignition Sequence: Single trial for main burner ignition [then shut down and lockout]

Provide operating control and system shutdown on loss of main burner flame in direct ignition central heat furnaces and heating appliances with hot surface igniter.

- S89C,G,H are for systems with a combination igniter- sensor.
- S89C lock out after one try for ignition. S89G,H provide three tries for ignition before lockout, with 30 sec. min. purge before second and third tries.
- Compatible with Norton 201 and 271 or equivalent hot surface igniters.
- Available with leadwires for line voltage connections.
- Available with Molex plug for connecting D80D Vent Damper.
- Modules can be used on either natural or LP gas; they provide 100 percent shutoff of gas on lockout.
- Modules have relay contacts for use with any direct ignition gas control with max. 2.0 A, 24 Vac rating.
- Modules use rectification principle for flame sensing. -40 F to +175 F (-40 C to +79 C) temperature rating.

Ignition Source: Line Voltage (120 VAC) Hot Surface Element (Norton Model 201)

Ignition System Type: Direct Hot Surface Ignition

Maximum Valve Load @ 24 Vac (Amps): 2A

Typical Gas Control: VR8205, VR8305, VR8345

Typical Ignition Hardware: Norton 201

Maximum Ambient Temperature: -40 F to +175 F (-40 C to +79 C)

Approvals:

Canadian Standards Association: Design Certified

Product Number	Flame Failure Response Time (sec)	Ignition Trial Time (sec)	Ignition Trials To Lockout	Lockout Timing	PrePurge
S89C1087	2.0 sec. @ 2.5 microamp	6 sec.	1	6 sec.	None
S89C1095	2.0 sec. @ 2.5 microamp	15 sec.	1	15 sec.	None

Y8610F; Y8610U Universal Retrofit Intermittent Pilot Gas Burner Ignition Systems



Application: Provide electronic control of intermittent pilot ignition systems used on gas fired furnaces, boilers, and other heating appliances.

Dimensions, Approximate: 3 15/16 in. high x 5 7/16 in. wide x 2 5/8 in. deep (102 mm high x 138 mm wide x 67 mm deep)

Type of Gas: Natural

Electrical Ratings: 24 Vac

Frequency: 60 Hz

Complete kits converting conventional standing pilot system to intermittent pilot system. For use with 24 Vac gas-fired atmospheric furnaces, boiler and heating appliances.

- Y8610F kits are for use with natural gas only: continuous trial for ignition until the pilot lights or the system in shutdown manually.
- Y8610U kits are for use with natural or LP gas: provides 100 percent pilot gas shutoff if pilot fails to light; after 6-minute delay, trial for ignition is repeated.
- Ignition trial/delay sequence is repeated until the appliance lights or call for heat is removed.

Flame Sense: Single Rod

Ignition Sequence: Continuous trial for pilot ignition [no shut down or lockout]

Ignition Source: Internal high voltage spark generator

Ignition System Type: Intermittent Pilot

Typical Gas Control: VR8204, VR8304

Typical Ignition Hardware: Q345

Maximum Ambient Temperature: 0 F to 165 F (-18 C to +74 C)

Product Number	Flame Failure Response Time (sec)	PrePurge	Description
Y8610F5003	0.8 sec. @ 1.0 microamp	None	Y-pack containing S8610F and VR8204A, 1/2 inch by 1/2 inch inlet/outlet for natural gas
Y8610U3003	0.8 sec. @ 1.0 microamp	None	Y-pack containing S8610U1003 and VR8304M with 1/2 inch by 3/4 inch inlet/outlet, flange kit, LP conversion kit and vent damper