S8910 Universal Hot Surface Ignition Module

Universal Hot Surface Ignition Module is designed to provide easy field replacement of a wide range of hot surface ignition modules manufactured by Honeywell, Robertshaw and White-Rodgers. The

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 Failure Response Time (sec): 1.5 sec.
Ignition Sequence: The number of trials for ignition and trial time is determined by the selection tab. If a selection tab is not installed, the module will operate at four seconds trial time and one ignition trial.

S8910U Module provides operating control of a direct ignition system using a 120 Vac hot surface igniter.

- Replaces many White-Rodgers, Robertshaw and Honeywell hot surface ignition models.
- For 120 Vac (up to 5.0A) surface igniter (Norton 201/271 or equivalent).
- For local (single rod) or remote (dual rod) rectification type flame sensing.
- Contains easy-to-use instructions plus the accessories required to adapt the existing hot surface ignition module.
- Provides one or three ignition trials (four-second or seven-second trials) per call for heat; prepurge of 32 seconds or less; up to 96 seconds between purge trial times.
- Temperature range is -40 to +175 F (-40 to +79 C).

Ignition Source: Line Voltage (120 VAC) Hot Surface Element (Norton Model 201 or 270)
Ignition System Type: Direct Hot Surface Ignition
Maximum Valve Load @ 24 Vac (Amps): 2A
Typical Gas Control: VR8205, VR8305
Typical Ignition Hardware: Norton 201, Norton 271, Q354
Maximum Ambient Temperature: -40 F to +175 F (-40 C to +79 C)
Approvals
Canadian Standards Association: Design Certified

	Product Number	Flame Sense	Ignition Trial Time (sec)	Between Trial Time (sec)	Ignition Trials To Lockout	PrePurge
*	**S8910U1000/U**	Single Rod or Two Rods	4 sec. or 7 sec.	(2) 96 sec.- 3 trial mode only	1 or 3	32 seconds

** TRADELINE models • SUPER TRADELINE models*

S89F Direct Spark Ignition Modules

S87 Ignition Modules provide electronic control of direct spark ignition systems, with external spark transformers. Used on gas-fired furnaces, boilers, conversion burners, and other heating appliances.

- Controls ignition sequence and gas control operation in direct spark ignition systems.
- Controls separate 120 Vac spark generator that provides high voltage potential for main burner ignition.
- Lockout after one trial for ignition if main burner fails to ignite.
- Reset from thermostat after lockout. Uses separate electrodes for spark ignition and flame sensing.
- Use any 24 Vac combination gas control designed for direct spark applications and rated at 2.0A or less.

Application: Provide electronic control of direct spark 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 Failure Response Time (sec): 2.0 sec. @ 2.5 microamp
Flame Failure Re-ignition Time (sec): 0.8 sec. maximum

Ignition Sequence: Single trial for main burner ignition (then shut down and lockout)
Ignition Source: External (120 VAC powered) High Voltage Spark Generator
Ignition System Type: Direct Spark Ignition
Maximum Valve Load @ 24 Vac (Amps): 2A
Typical Gas Control: VR8205, VR8305
Maximum Ambient Temperature: -40 F to +175 F (-40 C to +79 C)
Approvals
Canadian Standards Association: Design Certified

Product Number	Flame Sense	Ignition Trial Time (sec)	Ignition Trials To Lockout	PrePurge	Includes
S89F1098/U	Two Rod	4 sec.	1	30 sec. minimum	—
S89F1106/U	Two Rod	4 sec.	1	30 sec. minimum	Labels applied upside down for inverted mounting