Ignition Pilot Modules

S87 Direct Spark Ignition Modules

Provide electronic control of direct spark ignition systems used on gas fire furnaces, boilers, and other heating appliances.

- Control ignition sequence and gas control operation.
- Generate high voltage potential for main burner ignition.
- Lockout after one trial for ignition if main burner fails to ignite.
- Reset from thermostat after lockout.
- Use modules (except S87C) with any combination gas control designed for direct spark applications and rated 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): 0.8 sec. @ 5.0 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: Internal high voltage spark generator
Ignition System Type: Direct Spark Ignition
Maximum Valve Load @ 24 Vac (Amps): 2A
Typical Gas Control: VR8205, VR8305
Typical Ignition Hardware: Q347A
Maximum Ambient Temperature: -40 F to +175 F (-40 C to +79 C)
Approvals
Canadian Standards Association: File 112491_0_000

Product Number	Flame Sense	Ignition Trial Time (sec)	Ignition Trials To Lockout	PrePurge	Includes
S87B1008/U	Single Rod	6 sec.	1	None	Alarm terminal
S87B1065/U	Single Rod	4 sec.	1	None	Alarm terminal
S87C1006/U	Two Rod	6 sec.	1	None	—
S87C1030/U	Two Rod	21 sec.	1	None	—
S87D1004/U	Two Rod	6 sec.	1	None	Alarm terminal
S87D1020/U	Two Rod	4 sec.	1	None	Alarm terminal
S87D1038/U	Two Rod	21 sec.	1	None	Alarm terminal
S87J1026/U	Single Rod	11 sec.	1	30 sec. minimum	—
S87J1034/U	Single Rod	21 sec.	1	30 sec. minimum	—
S87K1008/U	Two Rod	4 sec.	1	30 sec. minimum	—