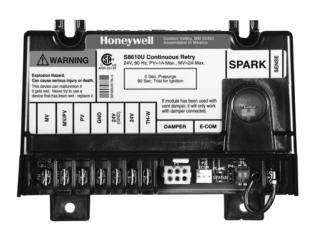
### **Ignition Pilot Modules**

### **S8610U Universal Intermittent Pilot Module**



Johnson, and UTEC (HSC) Intermittent Pilot Ignition Modules. Provides electronic control of most intermittent pilot ignition systems used on gas-fired furnaces, boilers, and other heating appliances.

Field service replacement for most Honeywell, Robertshaw,

- Provides ignition sequence, flame monitoring and safety shutoff for intermittent pilot central furnaces and heating appliances.
- 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.
- For use with Natural or LP gas.
- For use in single rod or dual rod/remote sense applications. Includes relay contacts for use with any intermittent pilot gas control string with maximum 1.0A pilot or 2.0A main valve rating; Honeywell VR8204, VR8304 or VR8345M combination gas control recommended.
- Functional equivalent of S86, S8600, S8610 and S90 modules.
- Includes spark cable adapters to allow field replacement of both Honeywell and competitive controls without replacing existing spark cable

**Application:** One or Two Rod Intermittent Pilot Control with continuous retry trial time with configurable lockout timing of 15 or 90 seconds and configurable prepurge of 30 seconds or no prepurge

**Dimensions, Approximate:** 3 15/16 in. high x 5 7/16 in. wide x 2 5/8 in.

deep (100 mm high x 138 mm wide x 67 mm deep)

Type of Gas: Natural or LP Electrical Ratings: 24 Vac Frequency: 50/60 Hz

Flame Sense: Single Rod or Two Rods

**Ignition Sequence:** Continuous retry, after trial for ignition, pilot gas shuts off for 5 minutes, then another trial for pilot ignition takes place

Ignition Source: Internal high voltage spark generator

Ignition System Type: Intermittent Pilot

Maximum Valve Load @ 24 Vac (Amps): 1A Pilot, 2A Main @ 165 F;

1A Pilot, 1A Main @ 175 F

Typical Gas Control: VR8204, VR8304

Typical Ignition Hardware: Q345, Q3451, Q3452

Maximum Ambient Temperature: (-40 C to +74 C) -40 F to +165 F

Approvals:

Canadian Standards Association: Design Certified

#### Accessories:

**394800-30** 30 in. Ignition Cable with Right Angle Boot for use with S8600 family

**394801-30** 30 in. Ignition Cable Assembly with straight boot for use with

S8600 family

				Between Trial Time (sec)	Ignition Trials To Lockout	Lockout Timing	PrePurge	Includes	
•		2 seconds maximum		5 minute delay after failed trial for ignition.		15 seconds or 90	30 seconds or	Damper connection with automatic vent damper plug	
*	TRADELINE models  SUPER TRADELINE models								

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# **Ignition Pilot Modules Selection Guide**

## **Ignition Pilot Modules Selection Guide**

Applications				Timings					
Universal Service Part	Ignition System Flame Sensor		Ignition Sequence (Note 1)	Ignition Trials To Lockout (Note 1) Ignition Trial Time		Between Trial Time	Pre-Purge	Flame Failure Response Time	
S8910U1000	Line Volt Hot Surface Ignition	1 or 2 Rods	Р	1 or 3 Field Selectable	4 sec. or 7 sec. Field Selectable	96 sec., 3 Trial Mode Only	32 sec.	1.5 sec	
S8610U3009	Intermittent Pilot	1 or 2 Rods	С	С	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec. or 30 sec. Field Selectable	2.0 sec. max.	
Y8610U6006	Intermittent Pilot	Single Rod	С	С	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec.	2.0 sec. max.	

Features and Functions					Cross-Reference				
Universal Service Part	Type of Gas	Ignition Source	Typical Ignition Hardware	Includes	Honeywell	White-Rodgers	Robertshaw	Johnson Controls	
S8910U1000	Nat or LP	Switched Line Voltage	Norton 201, Norton 271, Hot Surface Elements, Q354 Flame Rod	_	\$89C1004, \$89C1007, \$89C1012, \$89C10046, \$89C1012, \$89C1103, \$89D1002, \$89G1005, \$89F1011, \$89G1013, \$89G1021, \$89G1029, \$89G1047, \$89H1029, \$89J1008, \$89D1006, \$89J008, \$890D1006, \$89J0037, \$89H1002, \$89H1010	50E47 1-79, 101-179, 201-279, 301-379; 5047F1-79, 101-179, 201-279, 301-379	HS780-17NL 104A, 306A, 308A; HS780- 17NR 104A, 306A, 308A; HS780-34NL 108A, 304A, 306A, 308A, 312A; HS780- 34NR 104A, 306A, 308A, 312A; HS780- 34PL 308A	1	
S8610U3009	Nat or LP	Internal	Q345, Q3451, Q3452	Internal Damper Connector	\$86 Series, \$90 Series, \$8600 Series, \$8610 Series, \$8620 Series, \$8660 Series, \$8670 Series, \$8680J1004	50D49-350, 50D49- 360, 50D49-361, 50D50-843, 50D-401	710-713, 710-715, 735- 737, 780-002, 780-003, 780-701, 780-715, 780- 735, 780-736, 780-737, 780-845, SP710, SP715, SP720, SP730, SP735, SP750 Series	CSA42, 43, 44, 45, 46, 48, 49; G60, G65, G67, G770 Series	
Y8610U6006	Nat or LP	Internal	Adapter for Pilot Burner Included	_	Y8610U3003			_	

#### Notes:

For a complete cross-reference, visit www.customer.honeywell.com

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<sup>1.</sup> Ignition Sequence

C = Continuous retry - After trial for ignition, pilot gas shuts off for 5 minutes, then another trial for pilot ignition takes place.

P = 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.