





GAS BURNER CONTROLSPARK IGNITION 35-60 SERIES



24VAC • Direct Spark Ignition • Intermittent Pilot • DSI with Inducer Blower Advanced Communications • Harmonized

The 35-60 Series has been re-designed from the ground up, taking spark ignition into the future. These new controls have all the features you expect as well as enhanced connectivity and troubleshooting capabilities utilizing our UART communications interface.

The 35-60, 35-61 with inducer blower and 35-63 with intermittent pilot Series are 24VAC controls that provide high energy, 18KV spark output for reliable gas ignition in a range of configurations. Supporting and troubleshooting your appliance is enhanced through the Universal Asynchronous Receiver/Transmitter (UART) communications, providing real time control status data. The redesigned 35-60 Series meets the newest ANSI Z21.20-2014 and CE EN298:2012 harmonized ignition standard well in advance of the October 2023 deadline.

The advanced microprocessor design combined with surface mount technology and high-capacity relays provides precise, repeatable operation and extended product life. The diagnostic LED provide immediate status for supporting your appliance.

Additional options include:

- · Single/three try ignition
- Automatic reset
- Intelligent alarm out
- Standoffs/enclosure
- Wiring harness





35-60 Series - Product Specifications:

Parameters	Specifications
Input Power	18 – 30VAC at 50/60HZ
Input Current	300mA @ 24VAC with gas valve relay energized (control only)
Gas Valve	2.0A max (continuous) 4.0A (Inrush)
Alarm	.5A @ 24VAC
Operating Temperature	-40°F to +176°F (-40°C to +80°C)
Flame Sensitivity	.7 μA minimum
Flame Failure Response Rate	0.8 seconds maximum
Flame Detector Self-check Rate	50/60 times per second
Gas Types	Natural, LP, or manufactured
Spark Rate	25/30 per second (local sense)
Max. Size (LxWxH) with enclosure	5.7 x 4.0 x 1.6 inches (14.45 x 10.15 x 4.1 cm)
Moisture Resistance	Conformal coated to operate noncondensing to 95% R.H. Module should not be exposed to water
Ingress Protection	Not rated, protection provided by appliance in which it is installed
Tries for Ignition	One or three try versions available
Trial for Ignition Periods	4, 7, 10, 15 seconds available
Pre-purge and Inter-purge Timings	0, 15, 30 seconds, Without pre-purge, there is a 2 second start-up delay
Post Purge Timing	0,30,60 seconds (35-61 only)

Product Approvals (PENDING):



Design Certified to ANSI Z21.20-2014 CAN/CSA C22.2 No. 60730-2-5-14 and UL 60730-2-5



CE Approved to EN 298-2012



Code Compliant to: AS 4625 - 2008 AS 4622 - 2004



RoHS Compliant



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