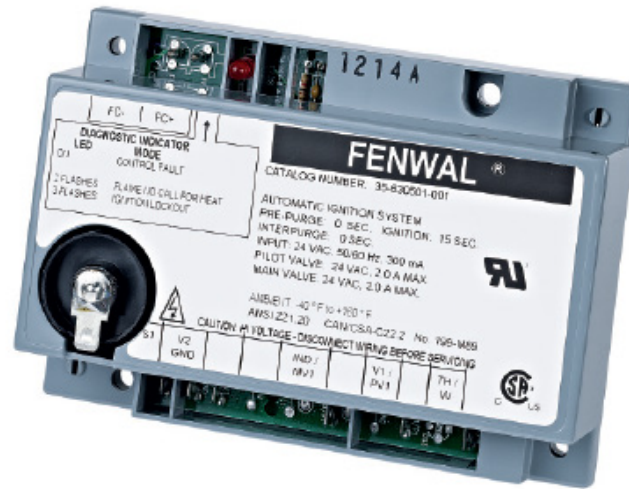


# 35 Series

## Cooking Ignition Controls

**FENWAL**  
CONTROLS



## Description

Fenwal®, a pioneer in cooking controls including automatic gas burner technology, offers a complete line of gas ignition controls. Direct spark, hot surface and intermittent pilot configurations are available in a wide range of input voltages. They feature the exceptional sensitivity of exclusive DETECT-A-FLAME® sensing technology to ensure safe ignition. Flame sensing is available in two designs: local (the high voltage rod combines spark and sensing functions) or remote (a separate rod, which might be located remotely from the spark electrode, senses the flame). Single or three ignition trials are available to suit OEMs' designs.

Like all Fenwal® cooking controls, these rugged, advanced, long life cycle ignition controls operate reliably in tough commercial kitchen environments where heat, grease, high humidity and moisture are common, yet equipment downtime during a shift is not an option.

## Features and Benefits

- Safe ignition with DETECT-A-FLAME® sensing technology
- Local or remote flame sensing
- Single or three ignition trial capability
- System diagnostics LED indicator

## Applications

- Commercial cooking
- Other gas fired appliances

**1** Year  
Limited  
Warranty



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05/24 150-2847 RevB

# Specifications

## Direct Spark Models

Part Number	Flame Sensor Method	Electrical Rating	Auto Reset	Ignition Attempts Before Lockout	Trial for Ignition	Pre-Purge	Inter-Purge	Post-Purge
35-605206-021	Remote Sense	18-30 VAC 50/60 Hz	No	3	4 seconds	N/A	N/A	N/A
35-605912-553	Remote Sense	18-30 VAC 50/60 Hz	No	N/A	N/A	5 seconds	N/A	N/A
35-60J106-021	Remote Sense	18-30 VAC 50/60 Hz	No	3	4 seconds	N/A	30 seconds	N/A
35-615939-551	N/A	18-30 VAC 50/60 Hz	No	N/A	4 seconds	N/A	N/A	60 seconds
35-625506-011	Remote Sense	18-30 VAC 50/60 Hz	Yes	3	4 seconds	N/A	15 seconds	N/A
35-705505-017	Local Sense	102-138 VAC 50/60 Hz	No	3	15 seconds	None	15 seconds	N/A
35-705506-015	Remote Sense	102-138 VAC 50/60 Hz	No	3	10 seconds	None	15 seconds	N/A

## Hot Surface Ignition Models

Part Number	Electrical Rating	Auto Reset	Ignition Attempts Before Lockout	Trial for Ignition	Pre-Purge	Inter-Purge
35-655005-023	18-30 VAC 50/60 Hz	No	3	7 seconds	None	30 seconds
35-655312-021	18-30 VAC 50/60 Hz	No	N/A	4 seconds	None	30 seconds
35-655909-002	18-30 VAC 50/60 Hz	No	N/A	N/A	None	None
35-655931-021	18-30 VAC 50/60 Hz	Yes	1	4 seconds	None	30 seconds

## Intermittent Pilot Model

Part Number	Flame Sensor Method	Electrical Rating	Auto Reset	Ignition Attempts Before Lockout	Trial for Ignition
35-630907-017	Local Sense	18-30 VAC 50/60 Hz	Yes	3	90 Seconds

# Replacement Information

35-605912-553	Vulcan 356589-2
35-625506-011	Imperial 33882
35-630907-017	Henny Penny 14919 / 77839
35-655312-021	Cleveland KE53469-5

