



IntelliSpark® IS SERIES Intelligent Ignition Control System

Protect the health of your spark-ignited natural gas engine with FW Murphy's IntelliSpark ignition controller and components.

True primary and secondary diagnostics provide users with an intelligent view of engine operation, while increased programming capabilities give you ultimate control. The IntelliSpark systems feature microprocessor and capacitive discharge functionality

for any application that requires a cost-effective operation.

IntelliSpark technology is utilized in FW Murphy's Engine Integrated Control System (EICS®).

Put this power to work and see reduced costs and enhanced flexibility.



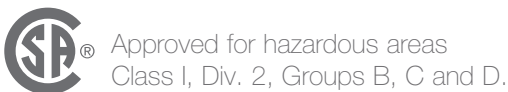
- Maximizes the performance of spark-ignited natural gas engines
- Crankshaft-referenced 16-bit microprocessor-based system
- Patented Smart Coil™ technology
- Automatic energy control
- Five timing reference options including camless operation
- Two field-adjustable timing schedules
- Optimized engine combustion and performance
- True primary and secondary diagnostics
- Increased spark life

Ignition Controllers Available as

IS-8 Solution – fires 8 outputs

IS-16 Solution – fires 16 outputs

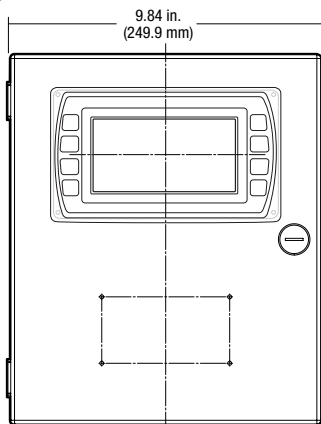
IS-32 Solution – fires 32 outputs



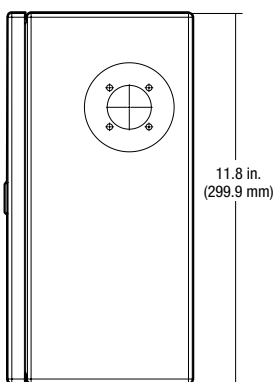
IntelliSpark®

IS Series Dimensions

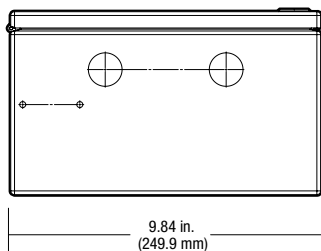
Front



Side



End



IS Series Specifications

- Power Requirements:
 - IS-16/8: 10-30 Volts (12/24 VDC nominal), 3.0 Amps max.
Note: The input current is dependent on firing rate.
 - IS-32: 10-30 Volts (12/24 VDC nominal), 6.0 Amps max.
- Environment:
 - Temperature Operating Range: -4 to +158 F (-20 to +70 C)
 - Enclosure Rating: IP167 with display mounted in the enclosure
 - Enclosure Rating: Type 4 with no display mounted in the enclosure
- Energy Storage:
 - IS-8/16: 125 mJ max, per tank capacitor
 - IS-32: 180 mJ max, per tank capacitor
- Outputs:
 - IS-8: Fires 8 outputs
 - IS-16: Fires 16 outputs
 - IS-32: Fires 32 outputs, 2 outputs can fire simultaneously.
- Output Electrical Specifications:
 - IS-8: Single tank capacitor
 - IS-16: Dual, alternately fired tank capacitors
 - IS-32: Quad, alternately fired pairs of tank capacitors. Ignition Outputs are High-side firing referenced to the "T" pin on the output harness.
Note: These outputs are not ground referenced unless the "T" lead is grounded. Recommend careful adherence to installation instructions.
- Maximum Output Current Pulse Rating: 40 Amps
Note: Current pulse amplitude is dependent on the coils in use and the tank capacitor voltage.
 - IT-230 Series coils: 7 Amp pulse @ 230Volts
 - IT-150 Series coils: 35 Amps @ 150 Volts
 - IT-250 series coils: 20 Amps @ 250 Volts
- 4/20 mA Inputs:
 - 4/20mA A: Programmable to retard timing when schedule A is active.
 - 4/20mA B: Programmable to retard timing when schedule B is active.
- Communications:
 - IS-8/16: Available auxilliary comm port, RS-485 interface, Modbus protocol.
Note: The port has a user programmable slave ID, runs at 9600 baud (19.2K).
All parameters available can be modified in parallel via front panel display

IS Series Approvals



Approved for hazardous areas
Class I, Div. 2, Groups B, C and D.

FW MURPHY™

FW MURPHY PRODUCTION CONTROLS

SALES, SERVICES & ACCOUNTING
5417 S. 122ND E. AVE.
TULSA, OK 74146

CONTROL SYSTEMS & SERVICES
105 RANDON DYER ROAD
ROSENBERG, TX 77471

MANUFACTURING
5757 FARINON DRIVE
SAN ANTONIO, TX 78249

DOMESTIC SALES & SUPPORT

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PHONE: 918 317 4100
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WWW.FWMURPHY.COM

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FM 668933 (Rosenberg, TX - USA)



FM 523851 (China) TS 589322 (China)