

Mini Merlin Wiring Solutions

Single Boiler Shutdown Examples



Boiler Limit Circuit Shutdown



2# 18-22 AWG DRY CONTACT
SHIELDED ALARM CABLE

Merlin Alarm Relay Output
Interrupts Boiler Limit Circuit,
Shutting Down the Boiler in Alarm



The Mini Merlin provides versatile and adaptable outputs depending on the project.

Each Detectable Gas has an Individual Relay that Changes State in Alarm. This Relay can be used to Shut Down a boiler or communicate the Alarm Condition to a BMS / BAS or Fire Alarm Control Panel.

Each Mini Merlin also provides a 110v output that is de-energized in Alarm, allowing the monitor to effect individual or multiple solenoids or electrical contactors.

Gas Supply Shutdown



110VAC
2# 12-18 AWG PLUS GROUND

Solenoid Valve Shuts Down
Gas Supply to Boiler



Electrical Supply Shutdown



110VAC
2# 12-18 AWG

Electrical Contactor De-Energizes
Electrical Supply to Boiler



Gas Safety Systems



Utility Control

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Mini Merlin Wiring Solutions

Multiple Boilers Shutdown Examples



Multiple Boilers Limit Circuit Shut-



2# 18-22 AWG DRY CONTACT
SHIELDED ALARM CABLE
WIRED IN PARALLEL

Merlin Alarm Relay Output
Interrupts Boilers Limit Circuit,
Shutting Down the Boiler in Alarm



No Limit on # of Boilers wired in series, max 500ft length of cable shielded from other voltage supplies

Multiple Supplies Shutdown



110VAC
2# 12-18 AWG PLUS GROUND
WIRED IN PARALLEL

Solenoid Valves Shuts Down
Gas Supply to Boiler on Multiple Gas
Lines



110V Output is limited to 3amp

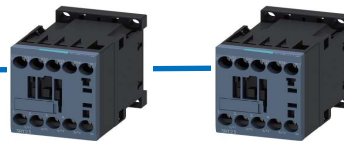
of Gas Solenoid Valves depends on Size and AMP draw

Multiple Electrical Supplies Shutdown



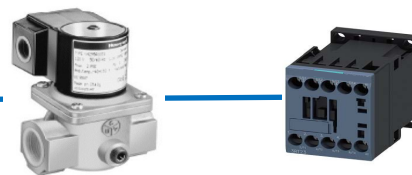
110VAC
2# 12-18 AWG
WIRED IN PARALLEL

Electrical Contactors De-Energizes
Electrical Supply to Boiler



Electrical Supply to Gas Vales, Water Valves & Electric Panels can all be controlled from One Mini Merlin

CSD-1



Add the Mini Merlin to your Panic Shut Down circuit. The Mini Merlin can accept dry contact inputs from Panic Buttons, Smoke Detectors & Fire Alarms

Gas Safety Systems



Utility Control