



SUBMITTAL DATA MODEL STO/R (SINGLE THERMOSTAT OPERATOR RELEASE)

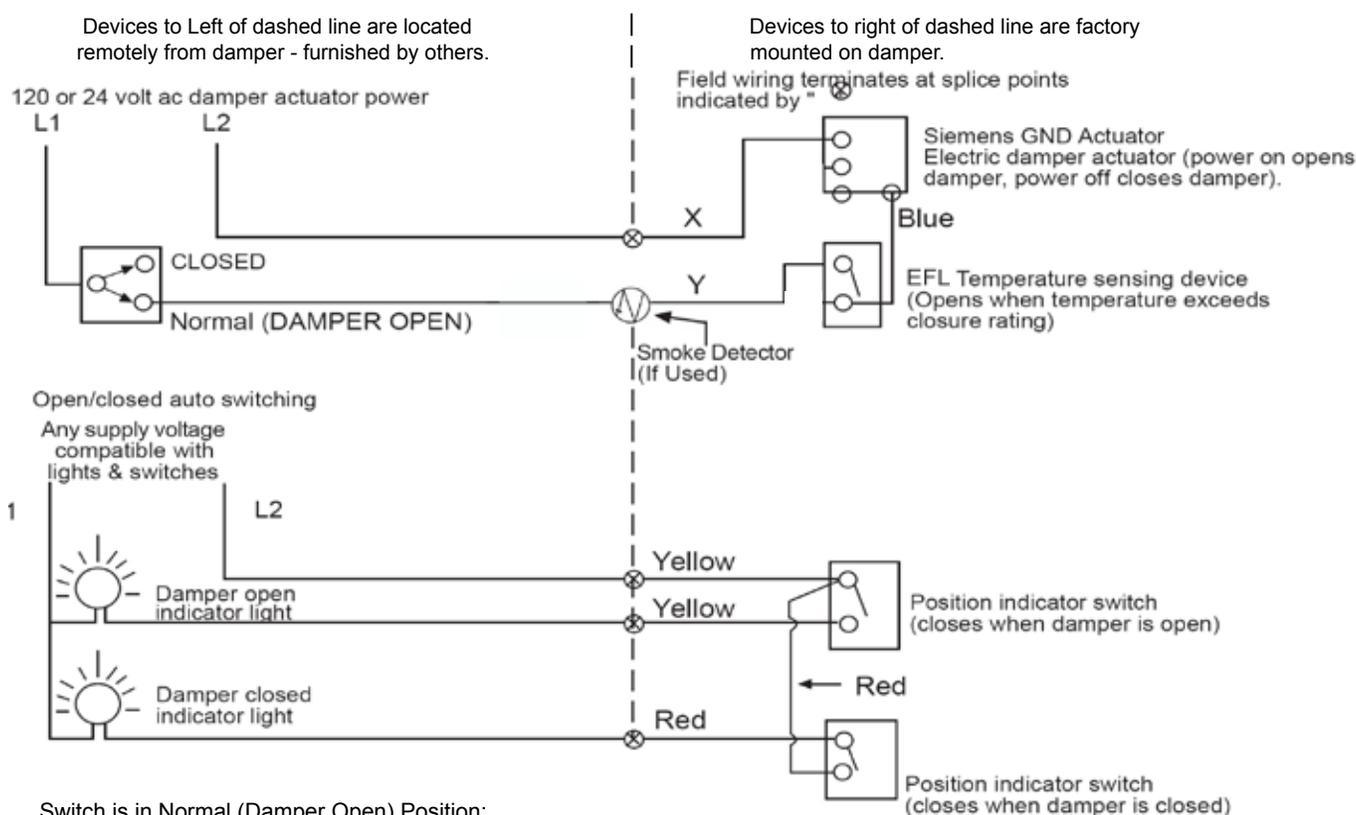
FOR COMBINATION FIRE / SMOKE DAMPERS AND MOTORIZED MULTI-BLADE FIRE DAMPERS

UL File No.
R25410



In today's life safety products markets, many building codes require fire dampers, smoke dampers and combination fire and smoke dampers to be inspected for proper operation. Many of these codes require that the damper be inspected and cycled every 12 months to 4 years depending on the local authority and the type of system in which it is installed. United Enertech's STO/R option provides the ease of operating and resetting the damper in a matter of seconds without replacing the link. The EFL is used in lieu of a conventional fusible link. It is a reusable/resettable heat responsive device that can only be reset after a visual inspection of the damper. Dampers which allow remote resetting of the heat response device from a remote location are dangerous. A remotely reset damper may not be fully functional and should be visually inspected. The STO/R is reset from the outside of the damper sleeve, therefore requiring a visual inspection of the damper. By depressing a button on the outside of the sleeve an inspector can verify if the damper is fully operational. The EFL is a multi-use heat responsive device. It is wired in series with the actuator therefore it is user friendly in most applications. When the smoke detector interrupts the current to the damper, the EFL will not hinder the closing of the damper. The STO/R package includes blade indicator switches which allow for remote notification of damper blade position, as a standard feature.

The STO/R option is available on all United Enertech F/S Model Combination Fire/Smoke Dampers and Motorized Multi-Blade Fire Dampers, refer to pages 3 and 4 for the Siemens GND Series actuator. The below details do not apply to the GND Series.



Switch is in Normal (Damper Open) Position:

Damper motor is energized until thermostat senses temperature above initial closure rating. Above temperature closure rating, the damper motor is de-energized and damper closes.

Smoke Detector (if used) wired in series with temperature sensitive device.

Switch in Closed Position damper motor is de-energized and damper is closed.

Detailed wiring diagrams including terminal designation and/or wire color coding furnished with each shipment.

Indicator Switch Electrical Limitations

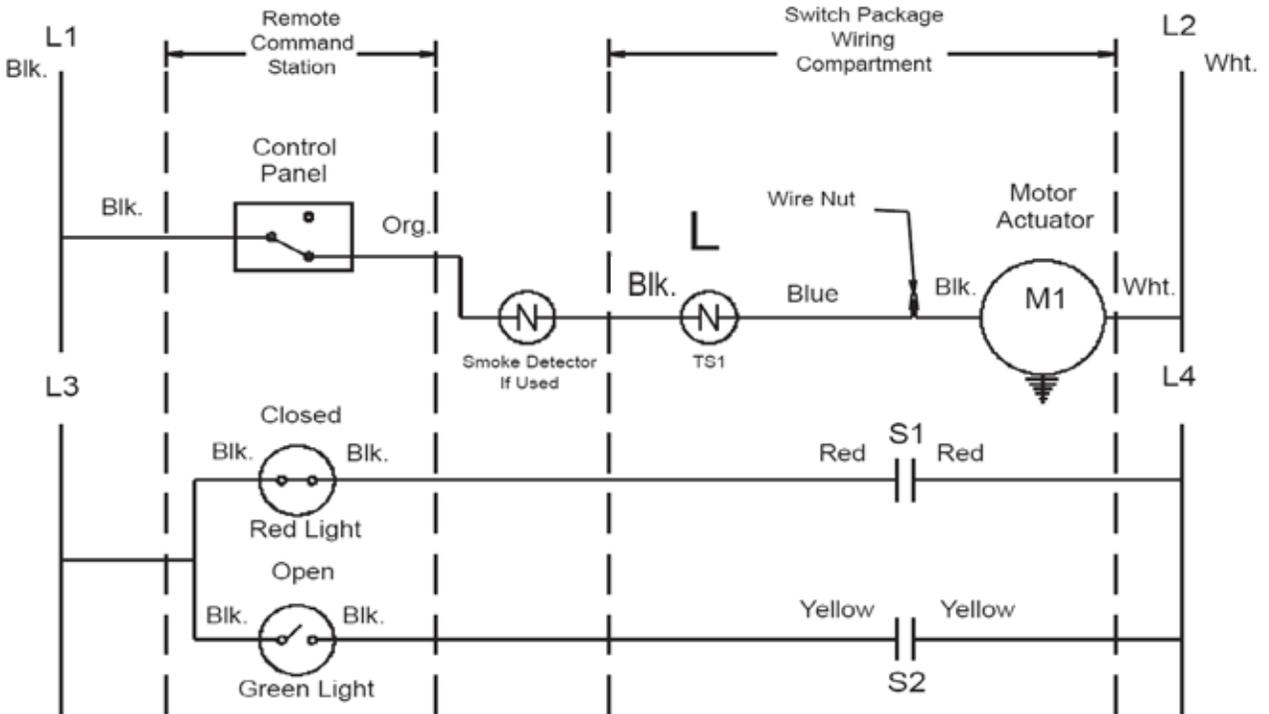
- 10 Amperes, 1/4 HP, 120 or 240 Volts A.C.
- .5 Ampere, 125 Volts D.C.
- .25 Ampere, 250 Volts D.C.
- 5 Amperes, 120 Volts (Lamp Load)
- 15 Amperes, 24 Volts D.C.

Manufacturer's Recommendations

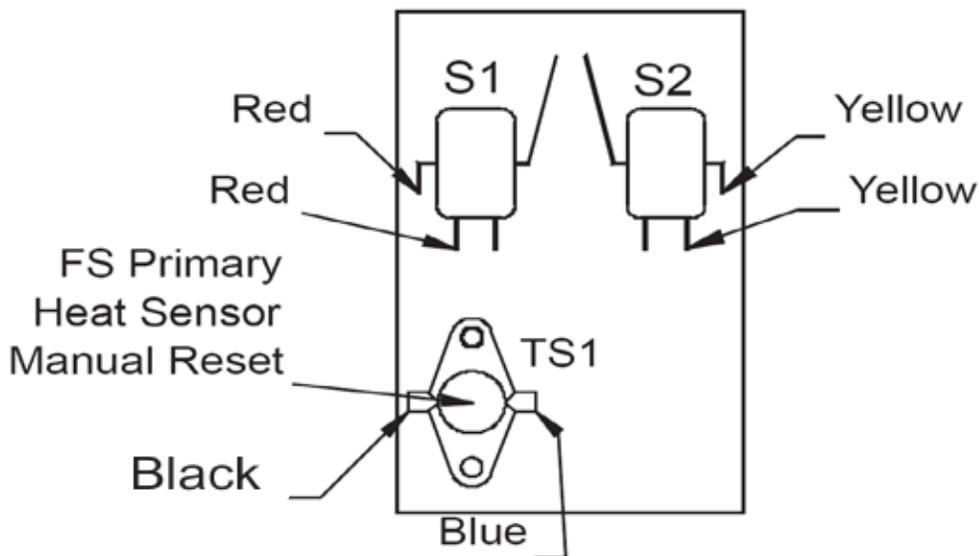
All moving parts of the damper must be inspected and cycled at intervals not greater than every 12 months or in accordance with the latest edition of NFPA 90A, 92A, local codes and the actuator manufacturer. In addition, fuse links shall be removed and inspected for corrosion. Dry lubricants are recommended.

FOR COMBINATION FIRE / SMOKE DAMPERS AND
 MOTORIZED MULTI-BLADE FIRE DAMPERS (CONT'D)

STO/R Wiring Details



L3, L4 is a Supply Voltage Compatible with Lights and Switches. Standard Voltage is Same as Actuator Ordered.



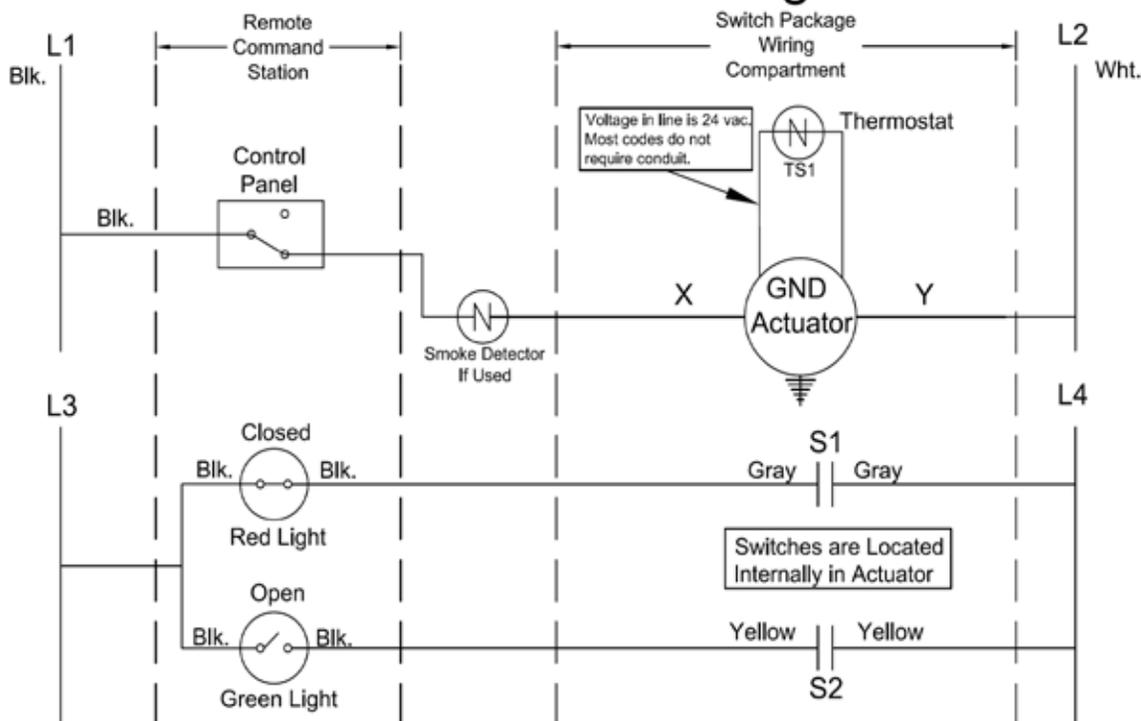
See pages 3 and 4 for Siemens GND Actuator.



MODEL STO/R w/ Siemens GND Series Actuator (SINGLE THERMOSTAT OPERATOR RELEASE)

FOR COMBINATION FIRE / SMOKE DAMPERS AND
MOTORIZED MULTI-BLADE FIRE DAMPERS (CONT'D)

GND with STO/R - Wiring Details



L3, L4 is a Supply Voltage Compatible with Lights and Switches. Standard Voltage is Same as Actuator Ordered.

The Thermostat is wired to the actuator via a low voltage (24 vac) connection. In most cases codes does not require this wiring to be incased. Check with your local codes to see if low voltage wires requires conduit. Notify U. E. if conduit is required.

	24 vac/vdc	120 vac	230 vac
Supply (X)	Red	White	Brown
Neutral (Y)	Black	Black	Blue
Ground	Green	Green	Green

Auxiliary Switches

	Switch Makes	Wire Color
Closed	<5°	Gray
Open	>85°	Yellow

Note: Both sets of auxiliary switch contacts are open when actuator is between 5 degrees and 85 degrees.

Ratings:

250 vac - 10 amps

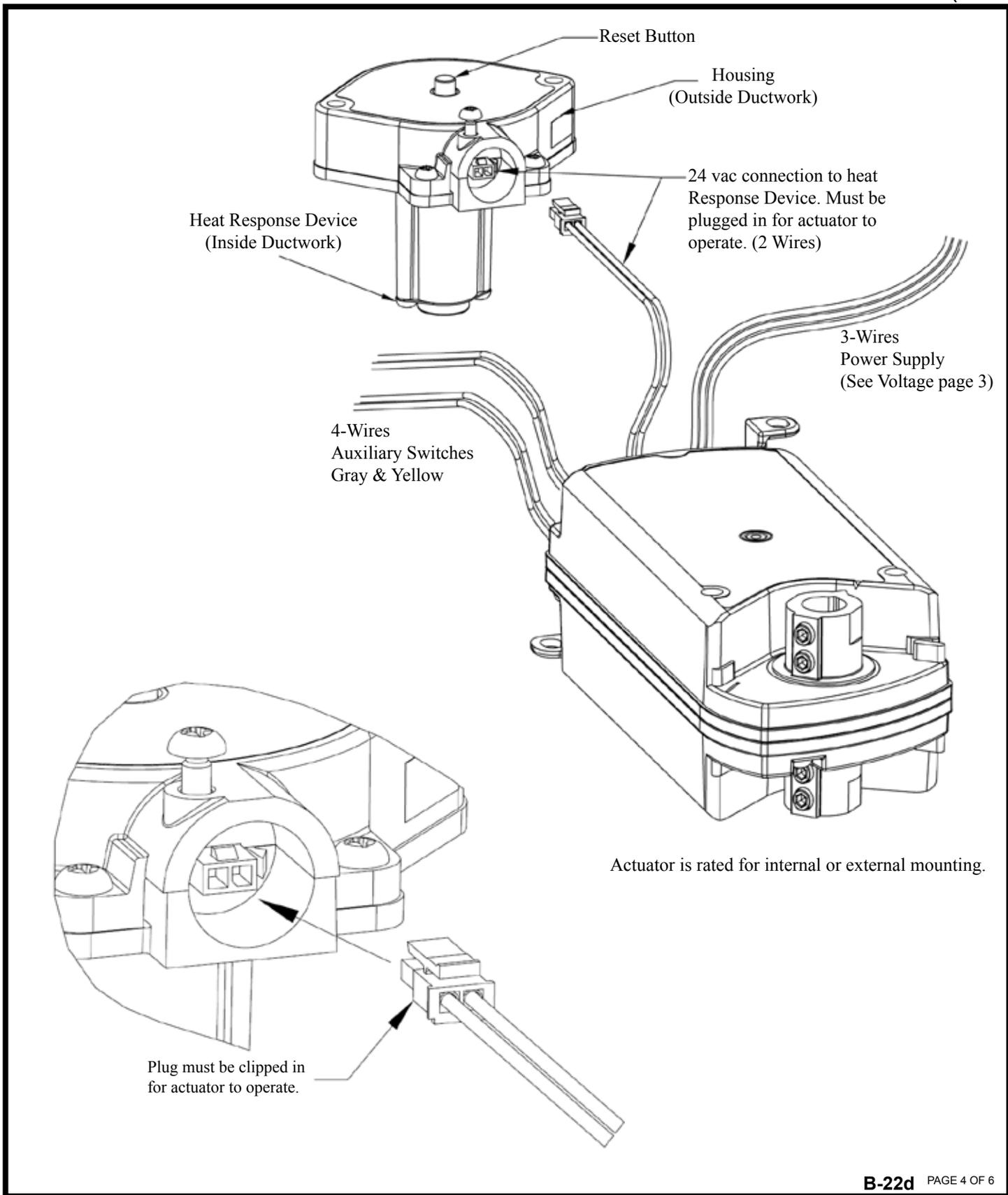
Motor Load - 3 amps

Max. Temperature - 350°F (177°C)

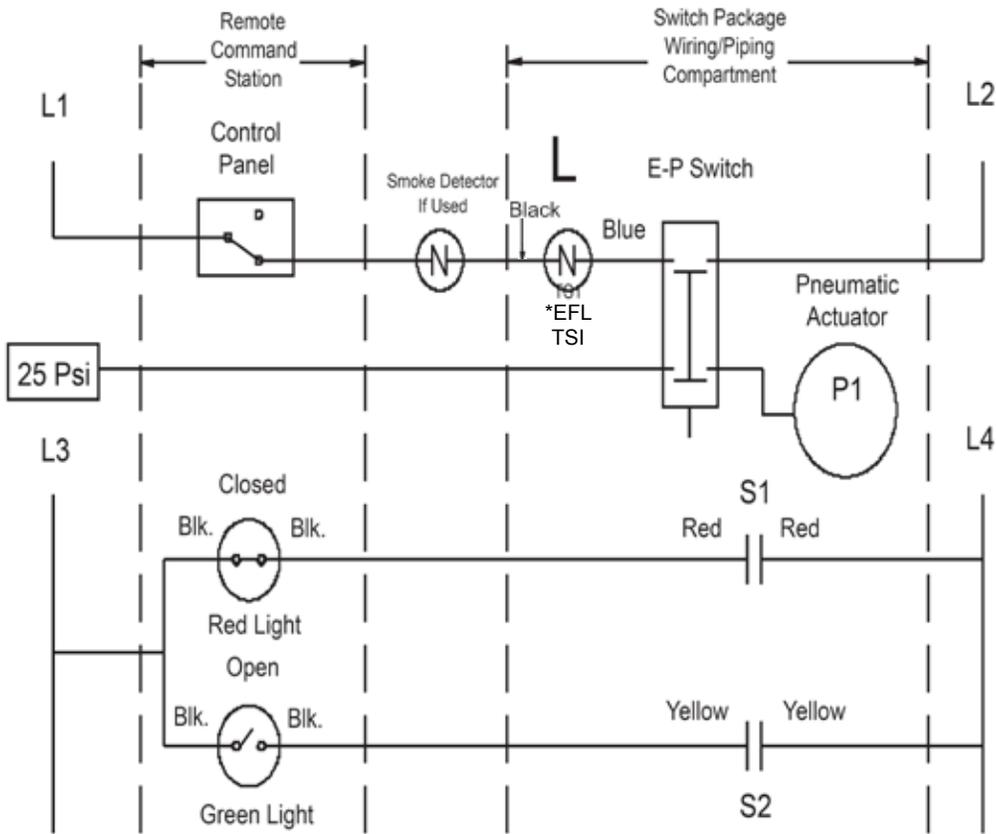


**MODEL STO/R w/ Siemens GND Series Actuator
(SINGLE THERMOSTAT OPERATOR RELEASE)**

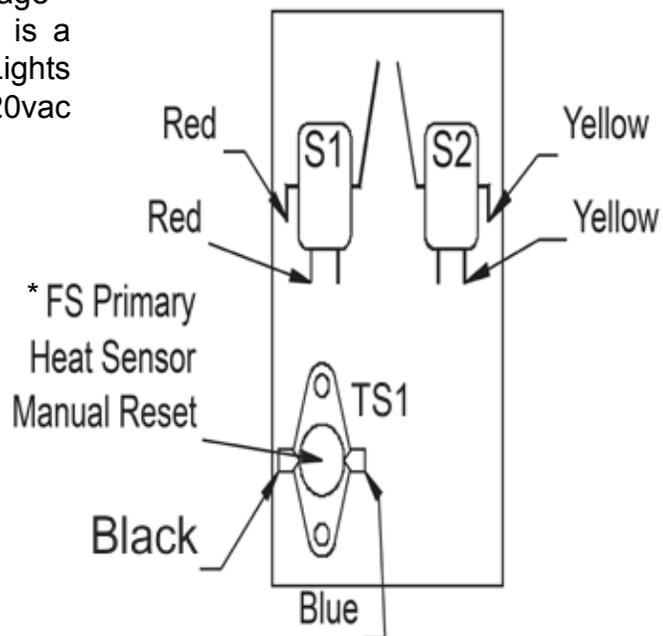
**FOR COMBINATION FIRE / SMOKE DAMPERS AND
MOTORIZED MULTI-BLADE FIRE DAMPERS (CONT'D)**



Pneumatic actuator w/ E-P Switch

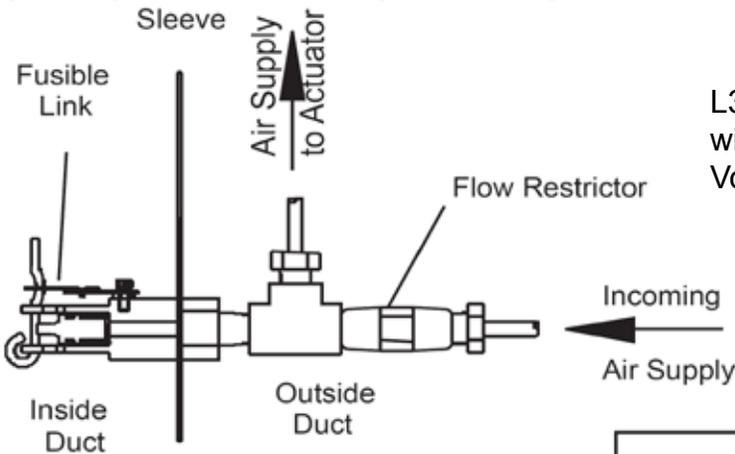
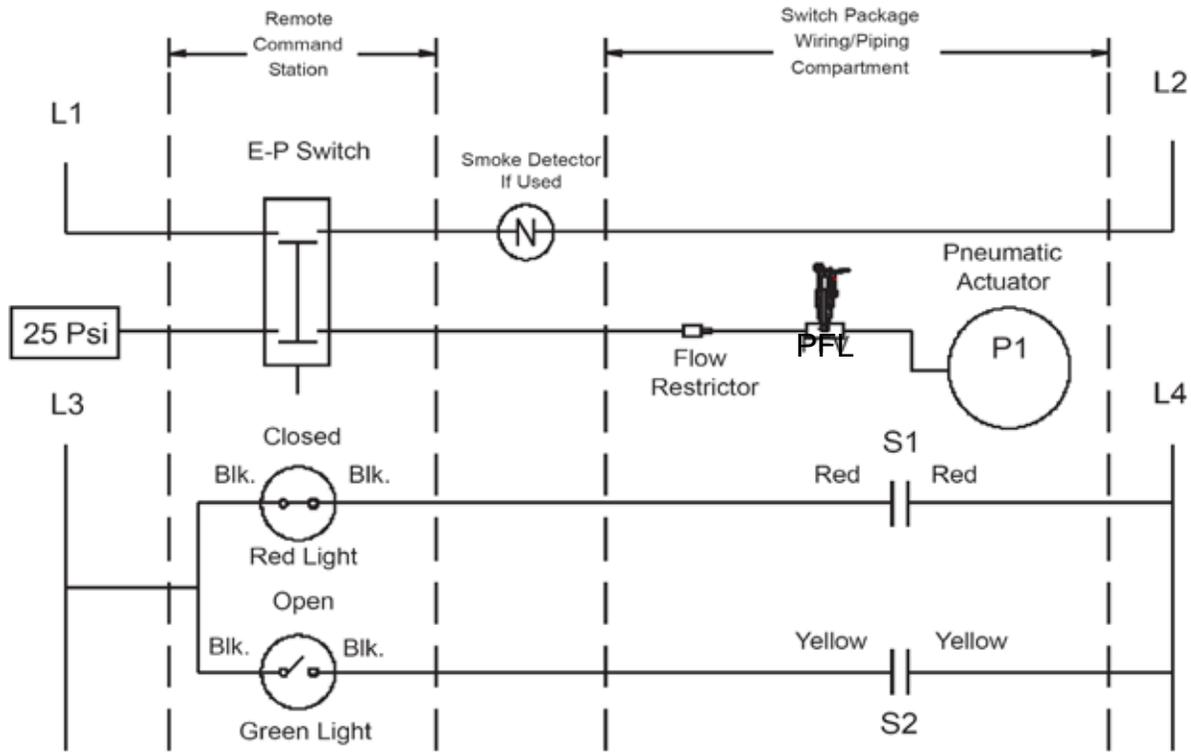


L1, L2 is the E-P Switch Supply Voltage desired (120vac or 24vac). L3, L4 is a Supply Voltage Compatible with Lights and Switches. Standard Voltage is 120vac if not Specified.



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Pneumatic actuator w/ PFL



L3, L4 is a Supply Voltage Compatible with Lights and Switches. Standard Voltage is 120vac if not Specified.

