CAUTION
Do not turn conduit fitting. Damage to the actuator will occur.

The conduit fitting must be held securely while installing conduit to prevent rotation.
### Spring Return Actuator with On/Off, Floating Point and -SR

**24 VAC Transformer**

- **Line Volts**
  - Blk (1) Common
  - Red (2) + Hot
- **Position Feedback VDC**
  - (+) 2 to 10 VDC
  - (-) 2 to 10 VDC

**On/Off**

- **Function**
  - Max 100%

**Spring Return Actuator with MFT**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Position Feedback VDC**
  - (+) 2 to 10 VDC
  - (-) 2 to 10 VDC

**Triac Sink**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Function**
  - Max 100%

**Triac Source**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Function**
  - Max 100%

**Triac Sink with Separate Transformer**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
  - Y2 Input
- **Function**
  - Max 100%

**Floating Point**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Function**
  - Max 100%

**PWM**

- **24 VAC Transformer**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Function**
  - Max 100%

### VDC / 4 to 20 mA

**Override Control Min, Mid, Max Positions**

- **24 VAC Transformer (AC only)**
  - Line Volts
  - Blk (1) Common
  - Red (2) + Hot
  - Wht (3) Y1 Input
  - Org (5) U Output
- **Function**
  - Max 100%

### Auxiliary Switches

- **S1** NC
- **S2** NC
- **S3** NC 0° to 90°

### Notes:

- **Meets cULus requirements without the need of an electrical ground connection**
- Actuators with appliance cables are numbered.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- Actuators may also be powered by 24 VDC.
- Only connect common to neg. (-) leg of control circuits.
- A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC.
- Control signal may be pulsing from either the Hot (Source) or Common (Sink) 24 VAC line.
- Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.
- For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible.
- Actuators may be connected in parallel if not mechanically mounted to the same shaft. Power consumption and input impedance must be observed.
- Actuators with plenum rated cable do not have numbers on wires; use colors codes instead.
- All 120 VAC, 230 VAC, and UP actuators use appliance rated cables.
- UP models use “L” instead of “H” on #2 wire.