



Damper Actuator - Optional Auxiliary Switch Wiring & Operation Instructions

(Note: Use of the auxiliary switch is not required for motorized damper operation.)

If you have purchased a motorized damper or shutter, the actuator will be equipped with an adjustable auxiliary switch. This switch can be used to indicate the damper position or to interface with additional controls or equipment, such as a starter relay or variable frequency drive (VFD). This feature will most commonly be used as a delay switch in order to prevent damage to a damper during fan startup.

- The actuator auxiliary switch consists of switch wires that are labeled as: **S1, S2 & S3.**
- Each of these wires are labeled and color coded.
*Refer to **Figure 1** when wiring the switch to any auxiliary equipment.*



Figure 1 - Switch Positions

- Figure 1 [A] shows the condition of the switch in its natural state (without power). This will represent a closed position for any damper or shutter.
- Figure 1 [B] shows the switch condition in its activated state. This will represent a desired open condition for a damper or shutter.
- Connect all damper linkages and refer to **Figure 2**, turning the switch dial all the way to 100% using a flat screw driver or provided tool.

- As the damper opens, the switch indicator will move from 100% toward 0%. When the damper is fully open, the switch should not yet be engaged.
- After the damper has fully opened, slowly turn the switch dial counter-clockwise until the switch is engaged.
(A continuity tester may be used for this step by connecting test leads to wires S1 & S3. When continuity is observed, the switch is correctly set.)

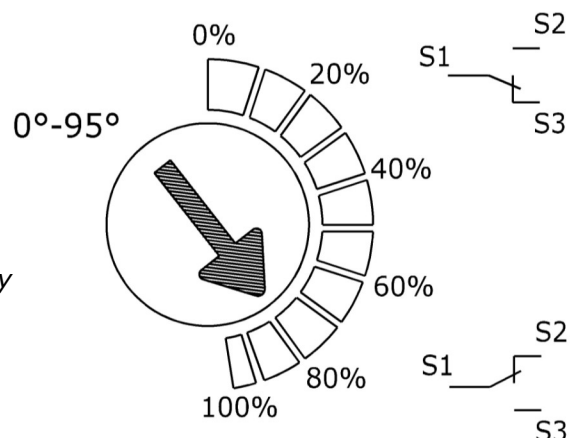


Figure 2 - Switch Settings

- Test once more for full operation.