Electric Fuse Link

Application

The EFL, Electric resettable Fuse Link, is a Underwriter’s Laboratories®, Inc. (UL) Classified heat responsive device and is used in conjunction with Johnson Controls® combination fire/smoke dampers. The EFL is standard on all combination fire/smoke dampers ordered with electric actuators. Combination fire/smoke dampers ordered with pneumatic actuators may be ordered with the EFL and an Electro/Pneumatic (EP) switch. The EFL closes and locks the damper when temperatures exceed 165° F (74° C), 212° F (100° C), or 250° F (121° C) depending on the model ordered and installed.

Note: To maintain the UL listing, the EFL must be factory installed and cannot be added in the field. Replacement EFL’s may be field installed with the approval of the local authority.

Operation

Fire Conditions – When temperatures exceeding the EFL limit are detected, the damper will close and lock. Upon cessation of fire conditions the damper can be reopened by pressing the reset button located on the damper assembly.

Smoke Conditions – When smoke signal is detected, the damper will close and remain closed until the smoke signal ceases (or the smoke detector is reset). The system will then reset and the damper will open.

- The damper may be closed at any time by operating an optional remote test switch as shown in Figure 2.
- If the EFL is tripped accidentally or during system testing, the EFL must be reset by pressing the RESET button located on the damper assembly.
- Refer to the appropriate damper installation instructions for details on damper installation.

Note: Pneumatic actuators should be piped per local codes. Electric actuators should be wired per the National Electric Code (NEC) and local codes.

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For more detailed information on the electric actuators, refer to the High Torque Electric Smoke Damper Actuator or Low Torque Electric Smoke Damper Actuator submittal sheets.
Figure 3: Installed Product

For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.