



DYNAMIC FIRE DAMPER



**PICTURE OF ETL
(ELECTRO-THERMAL LINK)**

**MODEL:
75 ETL**

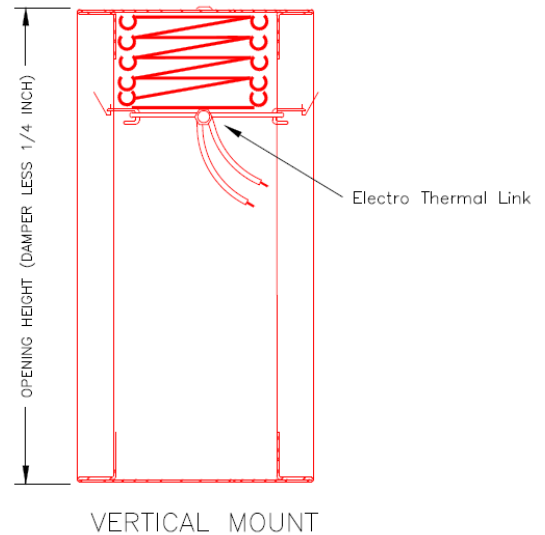
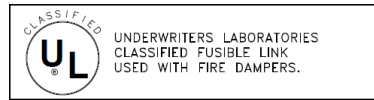
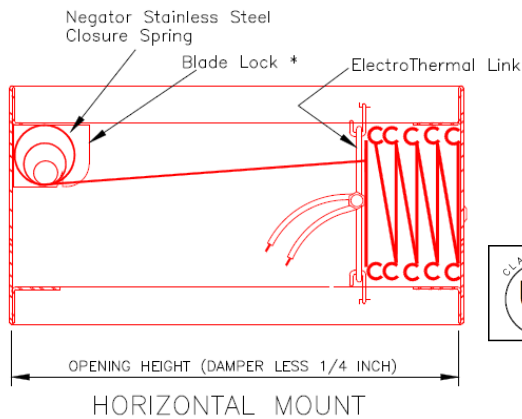
APPLICATION

The model 75 fire dampers (1-1/2 hour) are available with electro-thermal link (ETL) in all sizes for any particular type damper. It is for horizontal and vertical mountings.

RATING:

UL CLASSIFIED:

UL 555 Fire Resistance Rating
Fire resistance rated 1-1/2 Hours
Building materials rated in 2 hour fire partition



What it is and what it does

The Electro Thermal Link (ETL) is a multipurpose dual-responsive fusible link which reacts (melts) when subjected to:

1. Local heat (165°F) exactly the same as an ordinary link.
2. External electrical impulse of low power and a short duration.

It is specifically designed to substitute for ordinary links and/or other actuators in existing and new installations of:

Fire Dampers & Doors, Fire & Smoke Roof Hatches, Fire Extinguishers, Sprinklers, Smoke Towers, and gas or chemical Automatic Release Systems. The substitution should be made in every installation of the above devices where it is desirable for those devices to respond to:

Smoke in the early form of invisible products of combustion through ionization detectors, or fire at the earlier stage than ordinary links thru the use of rate of rise or maximum temperature devices.

The ETL's electro-response is the unique feature. It is not smoke responsive of itself, but its power requirement is so low that it can be released with an electrical impulse from any smoke detector's power source. It is compatible with every smoke detector on the market in the United States today.

The operating range is 6 to 30 volts AC or DC, less than 0.2 ampere of trip current required, and 1/2 millisecond (.0005 sec.) response at 24v. The electrical response is a trigger for the chemical heating of the center element which is a self-contained exo-thermic reactor, yielding no noise, smoke or gas--just quick heat to open the link in 7 seconds.

The ETL's thermal response is identical to that of ordinary fusible links of identical temperature (165°F) and strength (40 #) rating. In its capacity of converting a FIRE safety device into a FIRE/SMOKE safety device, the ETL can be substituted for both an ordinary link and motor, or link and electro-magnetic operator with advantages of simplicity, operational reliability, wide acceptability and economy. With its dual responsiveness, the ETL can be substituted for two other devices at a savings in first cost as well as operating cost and maintenance. The ETL is built to zero defect standards and to last at least fifty years and then still react properly--only on fire or smoke emergency. It is independent of power failures since it draws power from the detector standby source if needed. The ETL is listed by Underwriters' Laboratories, Inc. as a Fusible Link, and also has become the basis of a new UL test procedure for electro-chemical servo mechanisms.

