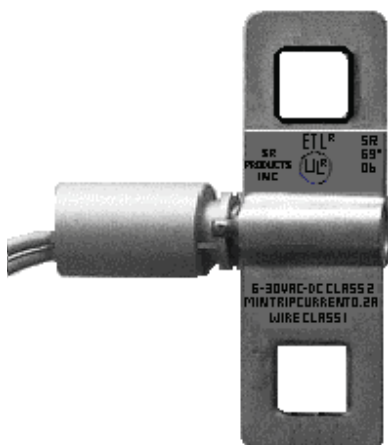


SR PRODUCTS INC



ETL[®]

ELECTRO THERMAL LINK[®]

The **Electro Thermal Link [ETL[®]]** is a multi-purpose, *dual responsive fusible link / release device*. The fusible link portion functions identically to an *ordinary* fusible link - *ambient* temperature nearing the *rated* temperature causes the low temperature alloy to melt, allowing the link halves to separate. The **ETL[®]** can also be actuated by an *electrical impulse*. A 0.2 ampere *minimum* trip current applied for 50 millisecond *minimum* duration starts an *irreversible* chemical reaction that melts the fusible alloy and causes link separation in 6 to 10 seconds at standard temperature. The **ETL[®]** was designed to substantially improve life safety and minimize property damage by providing both *ordinary fusible link response in the event of fire* along with the capability to *instantaneously* respond to *any* type of fire, smoke, infrared, light detector (etc.) capable of supplying a short duration current impulse. The design allows for **ETL[®]** substitution or retrofitting of ordinary fusible links and other actuators or release devices installed in: dampers; doors; roof hatches; towers; extinguishing systems, and inert chemical or gas release systems. An inherent major advantage of the **ETL[®]** over other products is the *dually redundant* dormancy – it draws no current and stays inertly in place until actuated, then functions and separates in seconds. The **ETL[®]** is designed and intended **FOR INDOOR** (or sheltered) **DRY USE ONLY**. The **ETL[®]** is an Underwriters Laboratories[®] listed device manufactured to exacting space age standards.

TECHNICAL DESCRIPTION

The **69° C ETL[®]** is a **UL[®]** listed **fusible link / release device** with a **69° C (156° F) nominal temperature rating** and a **40 pound (18 KG) maximum continuous - 5 pound (2.3 KG) minimum continuous** tensile weight rating at standard temperature. *Additionally*, it contains a bridgewire initiated pyrotechnic heating element *requiring a fifty (50) millisecond minimum duration all fire current of 200 milliamperes (0.2 ampere) within a voltage range of 6-30 VAC/DC (NEC Class 2, low voltage)*. The fusible link portion is a nominal **1" (25.4 mm) X 3 1/8" (79.4 mm) X 1/2" (12.7mm)** envelope with **1/2" (12.7 mm)** square reinforced openings at the ends to allow attachment of "S" hooks, straps, or other attachments. An **11/16" (17.3mm) diameter x 1 1/4" (31.7mm)** protruding cylinder houses the pyrotechnic heating element and **attachment wires (UL[®] 1018 Wire Class 1)** and provides a means to attach a standard EMT conduit connector adapter to any combination **1/2" (12.7 mm) EMT**; or **3/8" (9.5 mm)** or **1/2" (12.7mm) flexible conduit**, thereby meeting any requirements such as National Electric Code specifications for 'Wiring in Ducts, Plenums, and Other Air Handling Spaces.' The **ETL[®]** has a **forty (40) pound maximum continuous** tensile strength at standard temperature which can only be achieved in installations where the link is subject to *equal* linear tension from both ends. If side or "peel" forces are encountered (which is typical in most smoke damper installations) the weight may have to be reduced, or the force vectors re-established. For this reason it is not permissible to bolt or fix one end of the **ETL[®]** in *most* installations. Even if the Installation is gravity release (i.e. forty pounds hanging straight down from the bottom link half) it is *recommended* to allow the link to "float" using "S" hooks, straps or other attachments.