

## PASSIVE, THERMO-ACTIVATED DISCONNECTION SWITCH TO PREVENT FIRE OUTBREAKS IN ELECTRIC VEHICLES

**NEW**

### Housing

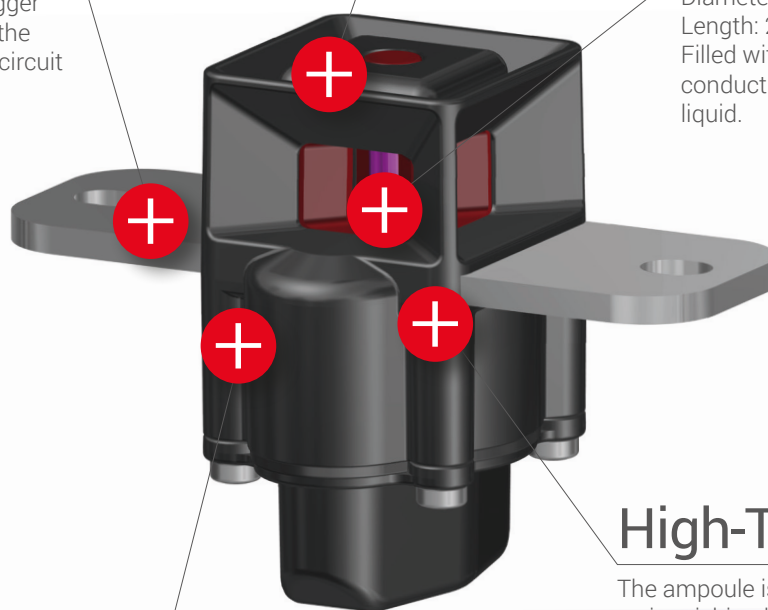
The housing is made of flame-retardant duroplast.

### Power Rail

The electric circuit is closed by the busbar. When the trigger temperature is reached, the ampoule bursts and the circuit is interrupted.

### E-Bulb

Diameter: 5mm  
Length: 20mm  
Filled with non-electrically conductive extinguishing liquid.



### Fire Extinguisher

The system voltage drops, the risk of arching is reduced.

The heat transfer via the module connector is interrupted, thermal propagation time is delayed.

### High-Tech

The ampoule is filled with 3M-NOVEC extinguishing liquid. After bursting, the liquid is released into the switching chamber, where it effectively extinguishes the arc that is produced.

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## DESCRIPTION

- Passive, thermo-activated battery disconnection switch
- Triggered by heat, fire, or hot venting (optional triggering by electrical signal possible)
- No ECU trigger necessary
- Non-reversible device

## APPLICATION

- The TP-Fuse is a self-sufficient disconnecting switch that automatically isolates the circuit in the event of a fire or thermal runaway to reduce the risk of arcing and minimize the danger of power surges.

## TECHNICAL DETAILS

- |   |                  |                                    |                                  |
|---|------------------|------------------------------------|----------------------------------|
| • Operating temperature .....           | -40 / +223°C     | • Voltage level .....              | up to 1000V DC                   |
| • Trigger temperature for shutoff ..... | 130-180°C        | • Long time current capacity ..... | 200A @ 85°C (80mm <sup>2</sup> ) |
| • Vibration resistance .....            | LV124-2 profil D | • Internal resistance in use ..... | <100μΩ                           |
| • Mec. shock .....                      | LV 124-2         | • Switching time .....             | <3ms                             |

## DIMENSIONS AND WEIGHT

- Weight ..... 200g

