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Pyrotechnic Switch Normally Open – PSS-6
Pyro-switch – Automotive Switch – High Current Device

- Safe crowbar connection based on proven airbag technology
- Highly reliable over vehicle lifetime
- Stable and reliable contact
- Robust design, solid standby operation
- Flameless

**Product description:**

In case of an accident, a pyrotechnical actuator short-circuits two terminals in less than 1 millisecond. It is triggered by the airbag ECU.

**Typical applications:**

The closing device “crowbars” or short-circuits the two Fuel Cell terminals in less than three milliseconds. This consumes Hydrogen contained in the Fuel Cell and makes it safe. It can be used as a relay to activate any electrical system or discharge capacitors from DC-DC converters.

**Voltage**

- Rated voltage: 450 V

**Current**

- Maximum short circuit current: 5 kA / 5 ms + 600 A / 60 s

**Busbar**

- Contact raw-material (base): CuSn 0.15
- Contact plating material (lead-free): Ni/Ag
- Busbar profile: Cross-section nominal 38 mm²

**Initiator Data**

- Qualified acc. to: AK-LV 16 & USCAR
- Initiator resistance: ≥ 1.7 Ω and ≤ 2.5 Ω
- All- Fire current: 1.75 A / 0.5 ms
- Or: 1.20 A / 2.0 ms
- No-Fire current: ≤ 0.4 A
- Or: ≤ 5.0 A / ≤ 4 μs
- Monitor current: 100 mA
- Triggering pulse slope: 10 μs / A

**Operation time**

- Release time: < 1 ms

**Resistance & Insulation data**

- Busbar resistance (at RT)
  - before ops.: ≥ 10 MΩ
  - after ops.: ≤ 0.3 mΩ

**Temperature**

- Operating temperature: -40°C... + 105°C
- Environmental temperature: -40°C... + 105°C
- Storage temperature: -40°C... + 90°C
- Self-ignition: ≥ 210°C

**Other Data**

- Vibration resistance acc. to: LV 124
- Mech. Shock resistance acc. to: LV 124
- Temperature cycle resistance acc. to: LV 124
- Chemical loads resistance acc. to: LV 124
- Other: Flameless device

**Other**

- Terminal type
  - on bus-bar: M8 screw
  - on initiator: ABX-5

- ISO 19072-1 and -5 compliant
  - (sealed and un-sealed)

- Weight: 80 g

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Short circuit example

Dimensions

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Short circuit example

Dimensions