Pyrotechnical Safety Switches

Prevention in milliseconds to avoid short-circuits, fire ignition & battery draining.

PSS-6

Autoliv's industry-standard Pyrotechnical Safety Switches comply with the high-quality requirements of the vehicle industry. Our Pyrotechnical Safety Switches offer a range of technical specifications, including different voltages, short circuit resistance and maximum current.

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

Voltage

Product specifications

| Rated voltage | | 450 V | Qualified acc. to Triggering circuit resistance | AK-LV 16 & USCAR |
|---|----------------------------|-----------------------------------|--|------------------|
| | | | Triggering current | 1,75 A / 0,5 ms |
| Current | | | Or | 1,20 A / 2,0 ms |
| Maximum short circuit | | | No-triggering current | ≤ 0,4 A |
| current | 5 kA / 5 ms + 600 A / 60 s | | Or | ≤ 5,0 A / ≤ 4 µs |
| | | | Diagnostic current: | < 100 mA |
| Bushar | | | Triggering pulse slope | > 8 mA / µs |
| Contact raw-material (b | ase) | CuSn 0.15 | | |
| Contact plating material (lead-free) | | Ni/Ag | Tomporoturo | |
| | (| | Concenting to provide up | 4000 10500 |
| Busbar profile | | | Operating temperature | -40°C + 105°C |
| Cross-section nominal | | 38 mm² | Environmental temperature | -40°C + 105°C |
| | | | Storage temperature | -40 C + 90 C |
| Operation time | | | Other Data | |
| Pelease time | | < 1 ms | Vibration resistance acc. to | LV 124 |
| | | < 11110 | Mech. Shock resistance acc. to | LV 124 |
| | | | Temperature cycle resistance acc. to | LV 124 |
| Posistance & Insulation data | | Chemical loads resistance acc. to | LV 124 | |
| Rushar resistance (at R | | | | |
| hefore ons | •) | > 10 MO | Other No ionizing gases / No particles exhaust | |
| after ons | | < 0.3 mO | | |
| | | 20,01122 | Terminal type | |
| | | | on bus-bar | M8 screw |
| Typical applications | | | on initiator | ABX-5 |
| The closing device "crowbars" or short-circuits the two | | | ISO 19072-1 and -5 compliant | |
| Fuel Cell terminals in less than three milliseconds. This | | | (sealed | and un-sealed) |
| consumes Hydrogen contained in the Fuel Cell and | | | Weight | 80 g |
| makes it safe. It can be u | ised as a relay | to activate any | | |



| Qualified acc. to | |
|-------------------|--|
| Triddenind sines | |

Triggering conditions

electrical system or discharge capacitors from DC-DC



Technical Data & Dimensions



Short circuit example

Dimensions



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