

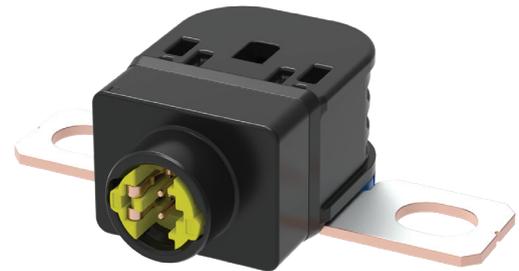
# Pyro Safety Switches

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

## Pyro Safety Switch PSS-2

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

- Maximum continuous current 300 A
- Non-reversible device
- Suitable for voltage levels up to 70 VDC
- High peak current carrying capability up to 2 000 A
- Material Flammability : HB



### Product specifications

Maximum Switching capacity	Typical 150J with Cpk 120J
Systems configurations tested (Other request contact us)	70 V / 1400 A / $\leq 60 \mu\text{H}$ 32 V / 2 000 A / $60 \mu\text{H}$
<b>Current carrying capacity</b> Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C.	
Customers applications examples (Load cable 50mm <sup>2</sup> )	125°C 200 A DC 105°C 250 A DC 85°C 300 A DC
Maximum pulse current	2 000 A / 10 s
<b>Busbar</b>	
Raw-material (base)	CuSn 0,15
Plating material	(lead-free) Sn/Ni
Cross-section	22 mm <sup>2</sup>
Busbar resistance (at RT) before ops. after ops.	$\leq 0,1 \text{ m}\Omega$ $\geq 10 \text{ M}\Omega / 500 \text{ V}$
Operating time	With Cpk 1,67 < 3 ms Typical 0,8 ms

### Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR $\geq 1,7 \Omega$ and $\leq 2,5 \Omega$
Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Pulse slope	$> 8 \text{ mA} / \mu\text{s}$
No-triggering current	$\leq 0,4 \text{ A} \leq 5,0 \text{ A} / \leq 4 \mu\text{s}$
Diagnostic current	$< 100 \text{ mA}$

### Temperatures

Operating	-40°C... + 105°C
Environmental	-40°C... + 105°C
Storage	-40°C... + 65°C

### Validations

Vibration resistance	ISO 16 750 – 3
Mech. Shock resistance	ISO 16 750 – 3
Temperature cycle resistance	ISO 16 750 – 4
Chemical loads resistance	ISO 16 750 – 5

HV-LV resistance before/after ops.	$\geq 1 \text{ G}\Omega / 500 \text{ V}$
------------------------------------	--

### Terminal type

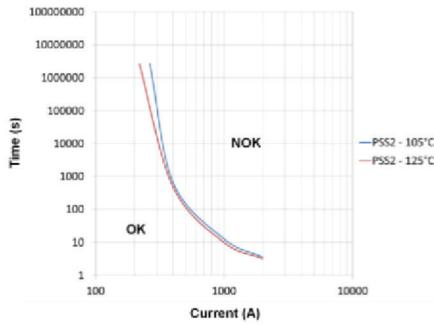
HV	M8 or w/o holes
Triggering	AK-1 AK-2 ABX-3

Weight	$\leq 40 \text{ g}$
--------	---------------------

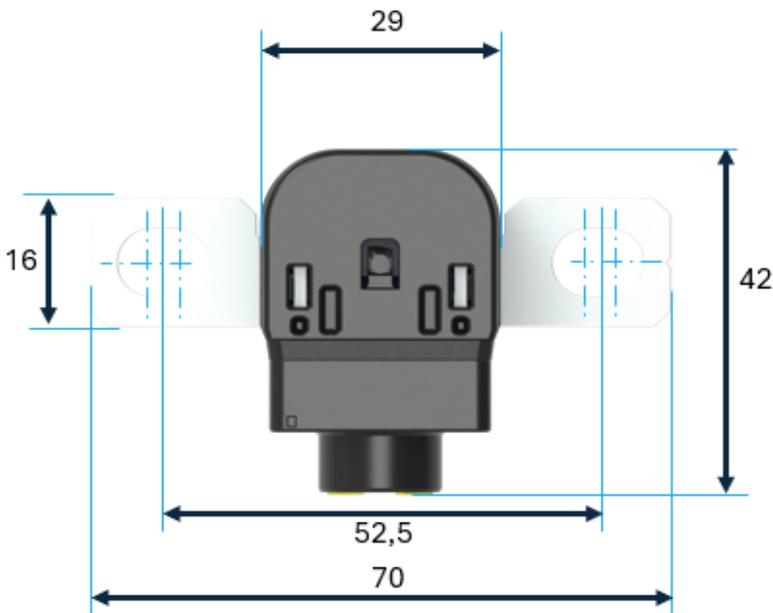
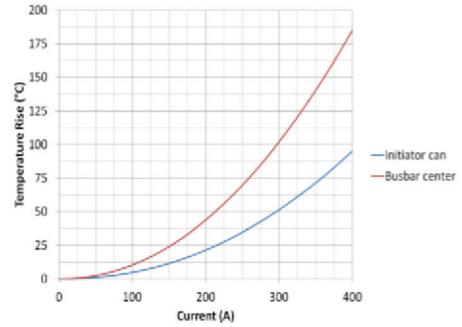
## Technical Data and Dimensions

### Performance & Dimensions

Derating curve



Temperature rise curve



We refer emphatically to the fact, that all details mentioned, especially the application and utilization recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deduced because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided Autoliv with all information and details necessary for an appropriate and correct evaluation through Autoliv in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is Autoliv's right to change product specifications without notice. Property rights of third parties are to be considered. In addition our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through Autoliv. All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed. Technical changes reserved. As of January 2016. © 2016



Read more