

Pyro Safety Switches

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

Pyro Safety Switch PSS-1

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 400 VDC
- High peak current carrying capability up to 2 000 A
- Material Flammability: HB



Product specifications

Maximum switching capacity	150J with Cpk 120J
Systems configurations tested	400 V / 200 A / 5 μ H 150 V / 2 000 A / 60 μ H
(Other request contact us)	110 V / 8 500 A / 3,5 μ H

Current carrying capacity

Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C.

Customers applications examples (Load cable 50mm ²)	85°C 300 A DC 105°C 250 A DC 125°C 200 A DC
Maximum pulse current	25 000 A / 5 ms 2 000 A / 10 s

Busbar

Raw-material (base)	CuSn 0,15
Plating material	(lead-free) Sn/Ni
Cross-section	32 mm ²
Busbar resistance (at RT) before ops.	$\leq 0,1$ m Ω
after ops	≥ 10 M Ω / 500 V

Operating time	With Cpk 1,67 < 3ms Typical 0,8 ms
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Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR $\geq 1,7$ Ω and $\leq 2,5$ Ω
Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Pulse slope	> 8 mA / μ s
No-triggering current	$\leq 0,4$ A $\leq 5,0$ A / ≤ 4 μ s
Diagnostic current	< 100 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.	≥ 1 G Ω / 500 V
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Terminal type

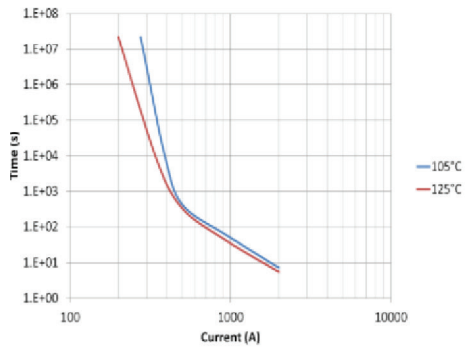
HV	M6 or M8
Triggering	AK-1 AK-2 ABX-3

Weight	≤ 60 g
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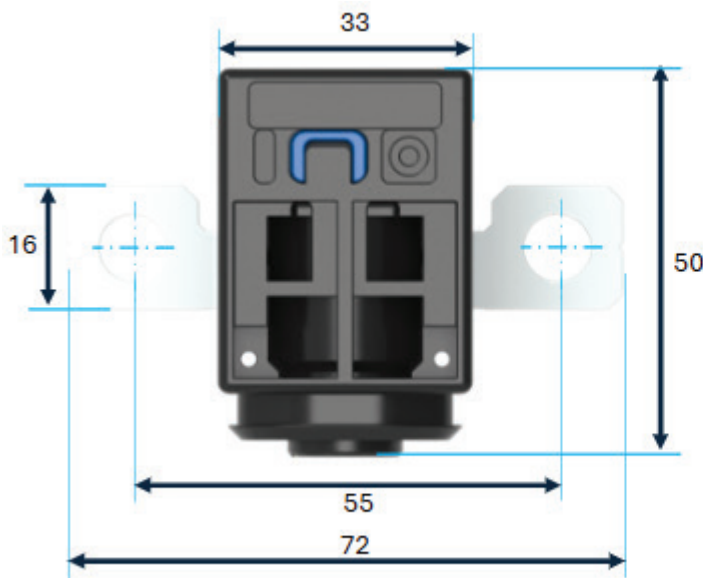
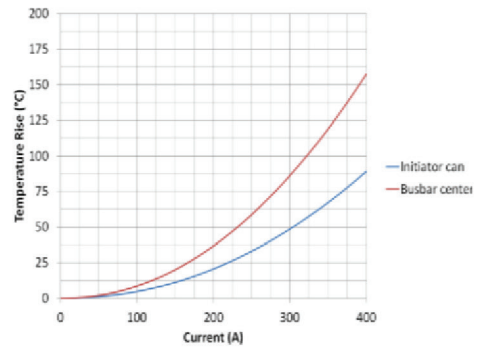
Technical Data and Dimensions

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



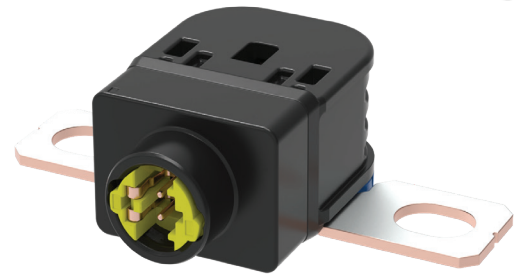
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Pyro Safety Switches

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 / ≤ 60 μH 32 V / 2 000 A / 60 μH
Current carrying capacity Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C.	
Customers applications examples (Load cable 50mm ²)	125°C 200 A DC 105°C 250 A DC 85°C 300 A DC
Maximum pulse current	2 000 A / 10 s
Busbar	
Raw-material (base)	CuSn 0,15
Plating material	(lead-free) Sn/Ni
Cross-section	22 mm ²
Busbar resistance (at RT) before ops. after ops.	≤ 0,1 mΩ ≥ 10 MΩ / 500 V
Operating time	With Cpk 1,67 < 3 ms Typical 0,8 ms

Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR ≥1,7 Ω and ≤ 2,5 Ω
Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Pulse slope	> 8 mA / μs
No-triggering current	≤ 0,4 A ≤ 5,0 A / ≤ 4 μs
Diagnostic current	< 100 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.	≥1 GΩ / 500 V
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Terminal type

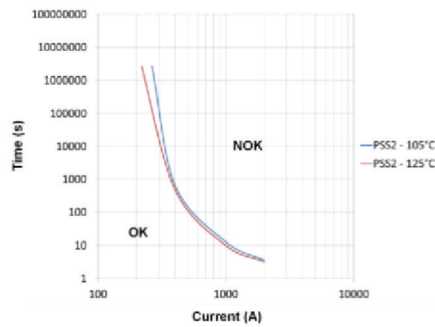
HV	M8 or w/o holes
Triggering	AK-1 AK-2 ABX-3

Weight	≤ 40 g
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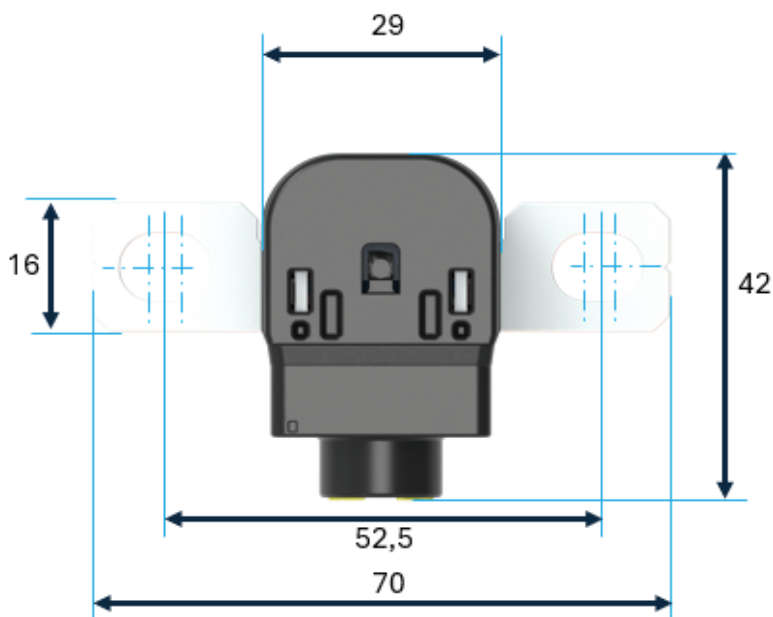
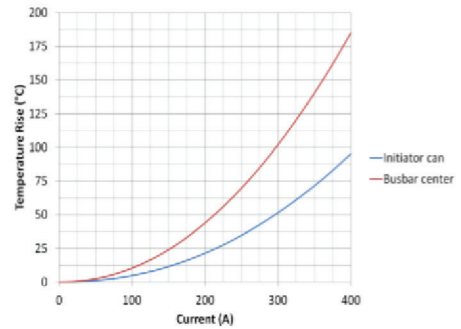
Technical Data and Dimensions

Performance & Dimensions

Derating curve



Temperature rise curve



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Pyro Safety Switches

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

Pyro Safety Switch PSS-3



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 300A
- Non-reversible device
- High peak current carrying capability up to 25 000 A
- Material Flammability : HB
- Second Circuit power off simultaneously : max 5A / 48V



Product specifications

Maximum switching capacity	Typical 150 J With Cpk 120 J
Systems Configurations tested	150 V / 2 000 A / 60 µH 200 V / 2 000 A / Ohmic load
(Other request, Contact us)	

Current carrying capacity

Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C

Customer application example (Load cable 50 mm ²)	85°C	300 A
	105°C	250 A
	125°C	200 A
Maximum pulse current	25 000 A / 5 ms 2 000 A / 10 s	

Busbar

Raw-material (base)	CuSn 0,15
Plating material (lead-free)	Sn/Ni
Cross-section	32 mm ²
Busbar resistance (at RT)	
before ops.	≤ 0,1 mΩ
after ops	≥ 10 MΩ / 500 V

HV-LV resistance before/after ops	≥ 1 GΩ / 500 V
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Operating time	With Cpk 1,67 < 3 ms Typical 0,8 ms
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Second Circuit

Contact raw material	Cu Alloy
Contact Plating	AgNi
Wire cross section	0,2mm ²

Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR ≥ 1,7 Ω and ≤ 2,5 Ω
Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Pulse slope	> 8 mA / µs
No-triggering current	≤ 0,4 A Or ≤ 5,0 A / ≤ 4 µs
Diagnostic current	< 100 mA

Temperature

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

Terminal type

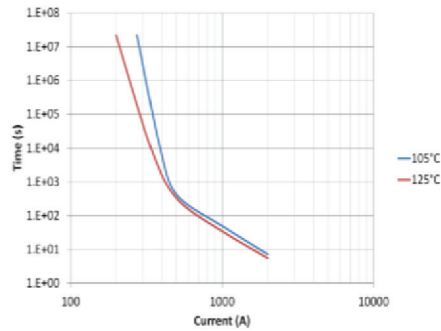
HV	M8
Second circuit	Nano MQS
Triggering	AK-1

Weight	≤ 65 g
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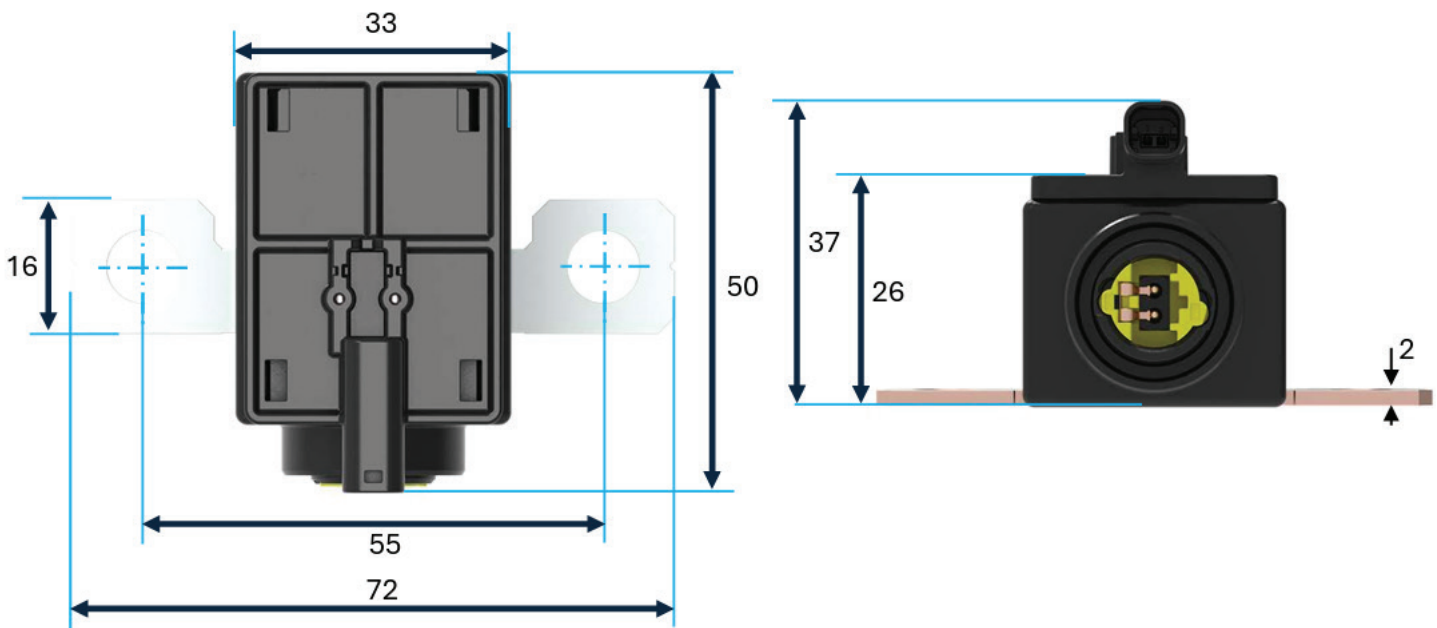
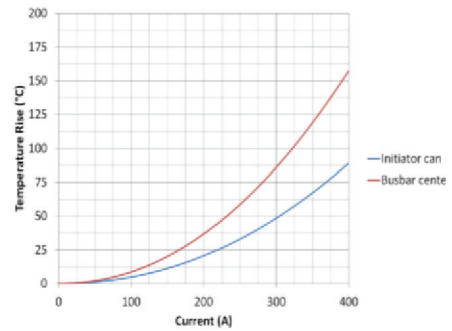
Technical Data and Dimensions

Performance & Dimensions

Derating curve



Temperature rise curve



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Pyro Safety Switches

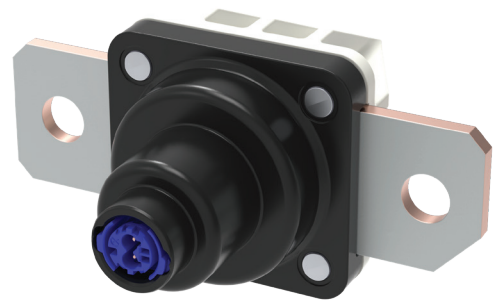
Prevention in milliseconds to avoid short-circuits, fire ignition and battery draining.

Pyro Safety Switch PSS-4 500V 1800J



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 500 A
- Non-reversible device
- Suitable for voltage levels up to 600 VDC
- High peak current carrying capability up to 25 000 A
- No ionizing gases / No particles exhaust
- Material Flammability : HB (V0 as option)

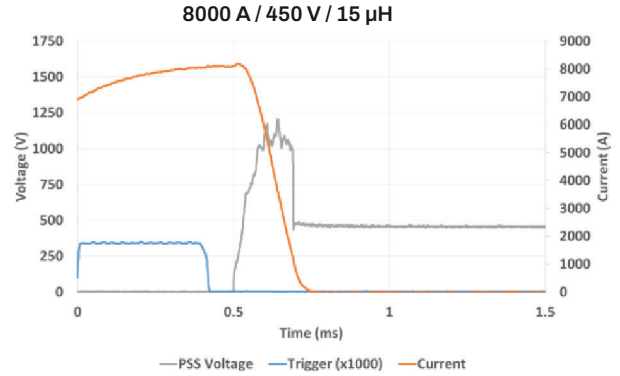
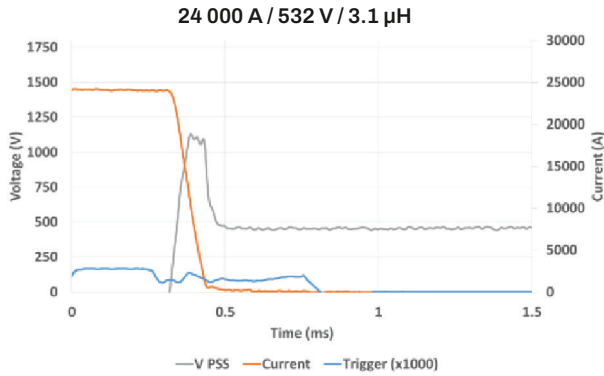


Product specifications

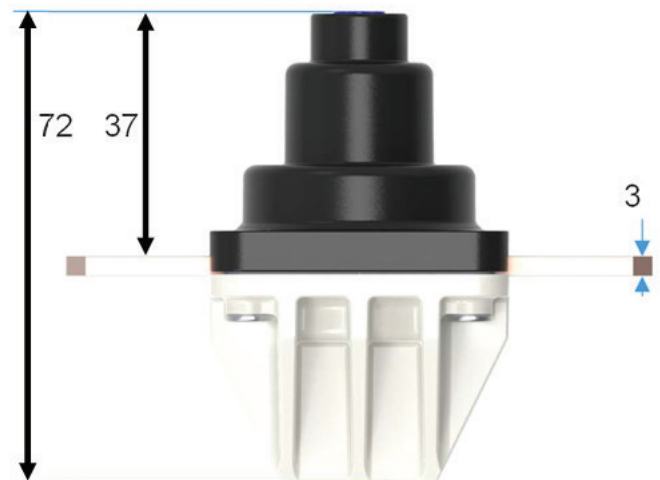
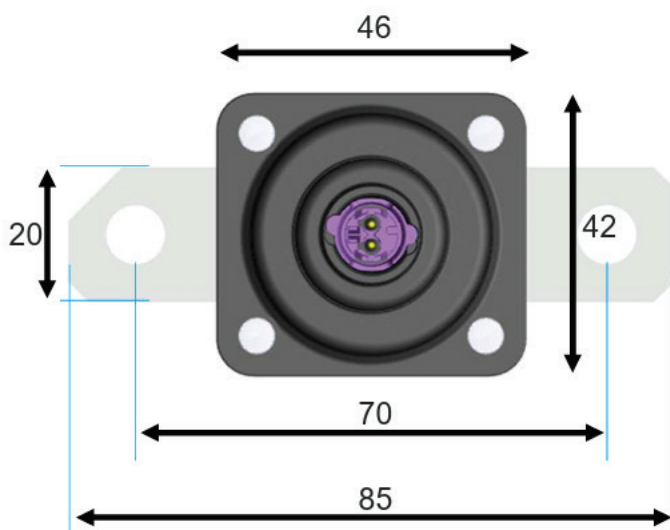
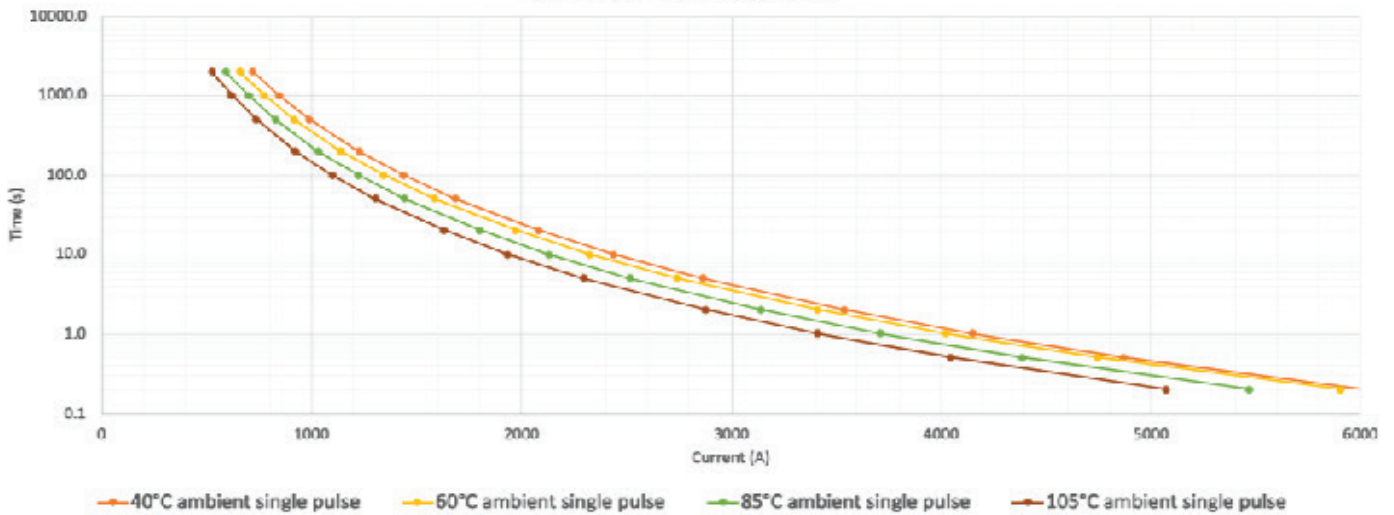
Maximum switching capacity	Typical 2000J With Cpk 1800J	Triggering conditions	acc. to AK-LV 16 & USCAR
Systems configurations tested	475 V / 13 300 A / 20 μH 475 V / 23 500 A / 2,3 μH 2 PSS-4 in series: 1000 V / 25 000 A / ≤ 5 μH	Ohmic resistance	≥ 1,7 Ω and ≤ 2,5 Ω
(Other request, Contact us)		Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Current carrying capacity		Pulse slope	> 8 mA / μs
Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C		No-triggering current	≤ 0,4 A ≤ 5,0 A / ≤ 4 μs
Customers applications examples	105°C Max, 350 A DC (Load cable 70 mm ²) 85°C Max, 420 A DC 50°C Max, 500 A DC	Diagnostic current	< 100 mA
Maximum pulse current	25 000 A / 5 ms	Temperatures	
Busbar		Operating	-40°C... + 105°C
Raw-material (base)	CuSn 0,15	Environmental	-40°C... + 105°C
Plating material (lead-free)	Sn/Ni	Storage	-40°C... + 65°C
Cross-section	60 mm ² or 78 mm ²	Validations	
Busbar resistance (at RT)		Vibration resistance	AK-LV 124
before ops.	≤ 0,05 mΩ	Mech. Shock resistance	AK-LV 124
after ops	≥ 1 MΩ / 500 V	Temperature cycle resistance	AK-LV 124
Optional	≥ 50 MΩ / 500 V	Chemical loads resistance	AK-LV 124
Operating time	With Cpk 1,67 < 2 ms Typical 0,8 ms	HV-LV resistance before/after ops.	≥ 1 GΩ / 500 V
(450 V / 8kA / 15 μH)		Terminal type	
(530 V / 24kA / 3 μH)		HV	M6 or M8
		Triggering	ABX-5 or AK-2
		Weight	≤ 145 g

Technical Data and Dimensions

Performance & Dimensions



Derating curve for single pulses



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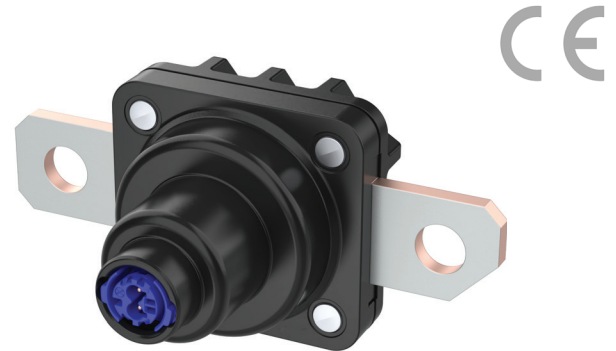
Pyro Safety Switches

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

Pyro Safety Switch PSS-4 500V 500J

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- Maximum continuous current 500 A
- Non-reversible device
- Suitable for voltage levels up to 600 VDC
- High peak current carrying capability up to 25 000 A
- No ionizing gases / No particles exhaust
- Material Flammability : V0



Product specifications

Maximum switching capacity With Cpk 500J
 Systems configurations tested 500 V / 10 000 A / 10 μH
 (Other request, Contact us)

Current carrying capacity

Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C

Customers applications 105°C Max, 350 A DC
 examples 85°C Max, 420 A DC
 (Load cable 70 mm² min) 50°C Max, 500 A DC
 Maximum pulse current 25 000 A / 5 ms

Busbar

Raw-material (base) CuSn 0,15
 Plating material (lead-free) Sn/Ni
 Cross-section 60 mm² or 78 mm²
 Busbar resistance (at RT)
 before ops. ≤ 0,05 mΩ
 after ops ≥ 50 MΩ / 500 V

Operation time

Operating time With Cpk 1,67 < 2 ms
 450 V / 10kA / 20 μH Typical 0.8 ms

Triggering conditions

Ohmic resistance ≥1,7 Ω and ≤ 2,5 Ω
 Current pulse 1,75 A / 0,5 ms
 Or 1,20 A / 2,0 ms
 Pulse slope > 8 mA / μs
 No-triggering current ≤ 0,4 A Or ≤ 5,0 A / ≤ 4 μs
 Diagnostic current: < 100 mA

Temperatures

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

Validations

Vibration resistance AK-LV 124
 Mech. Shock resistance AK-LV 124
 Temperature cycle resistance AK-LV 124
 Chemical loads resistance AK-LV 124
 HV-LV resistance
 before/after ops. ≥ 1 GΩ / 500 V

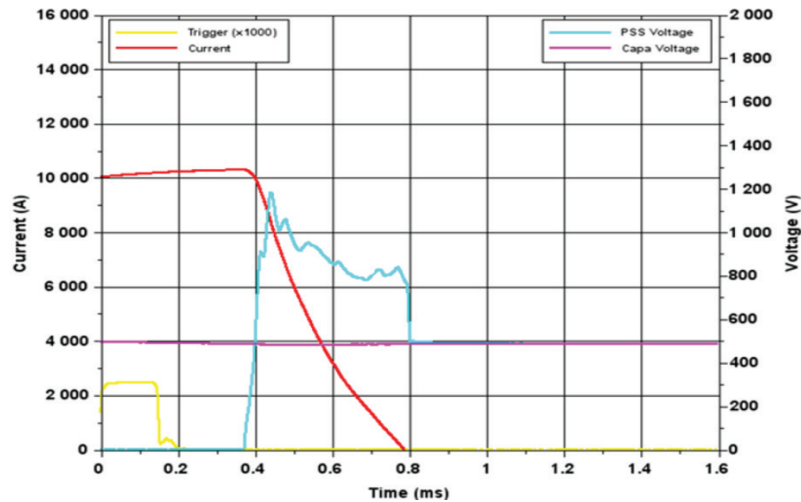
Terminal type

HV M6 or M8
 triggering ABX-5 or AK-2

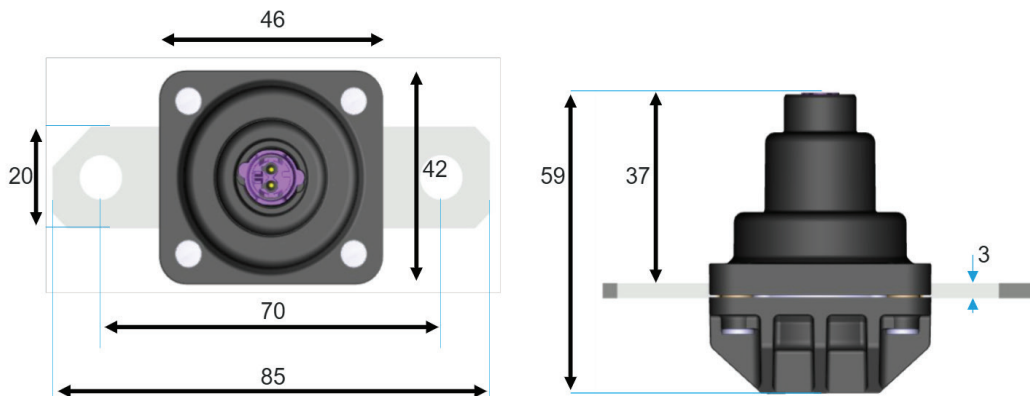
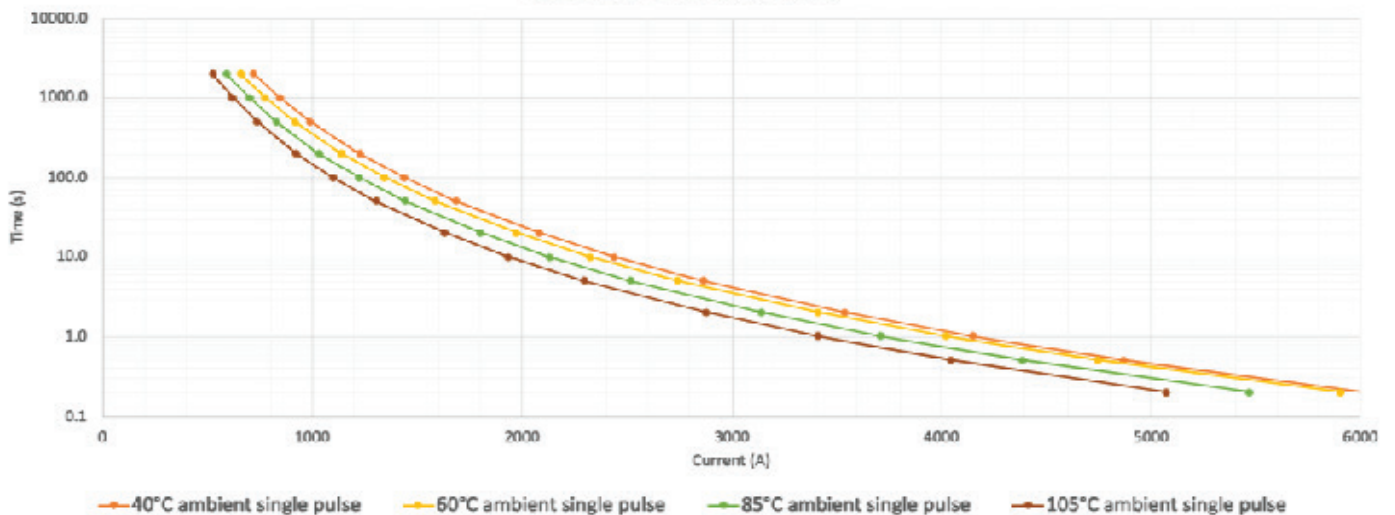
Weight ≤ 125 g

Technical Data and Dimensions

Performance & Dimensions



Derating curve for single pulses



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Pyro Safety Switches

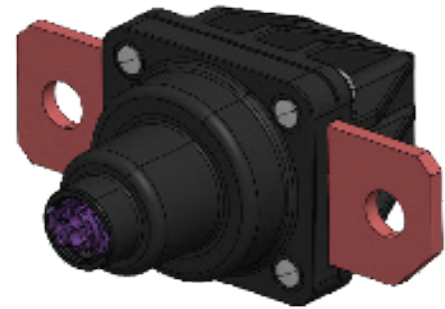
Prevention in milliseconds to avoid short-circuits, fire ignition and battery draining.

Pyro Safety Switch PSS-4 1000V 1200J

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- Maximum continuous current 500 A
- Non-reversible device
- Suitable for voltage levels up to 1000 VDC
- High peak current carrying capability up to 25 000 A
- No ionizing gases / No particles exhaust
- Material Flammability : V0



Product specifications

Maximum switching capacity	Typical 1600J with Cpk 1200J
Systems configurations tested	900 V / 10 000 A / 20 μH 940 V / 16 000 A / 1.5 μH

(Other request, Contact us)

Current carrying capacity

Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C

Customers applications example (Load cable 70 mm ² min)	105°C Max, 350 A DC 85°C Max, 420 A DC 50°C Max, 500 A DC
Maximum pulse current	25 000 A / 5 ms

Busbar

Raw-material (base)	CuSn 0,15
Plating material (lead-free)	Sn/Ni
Cross-section nominal	60 mm ²
Busbar resistance (at RT) before ops.	≤ 0,05 mΩ
after ops	≥ 50 MΩ / 500 V

Operation time

Operating time (900V/10kA/20μH)	With Cpk 1,67 < 1,5 ms Typical 0,8 ms
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Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR ≥1,7 Ω and ≤ 2,5 Ω
Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Pulse slope	> 8 mA / μs
No-triggering current	≤ 0,4 A Or ≤ 5,0 A / ≤ 4 μs
Diagnostic current	< 100 mA

Temperature

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

Validations

Vibration resistance	AK-LV 124
Mech. Shock resistance	AK-LV 124
Temperature cycle resistance	AK-LV 124
Chemical loads resistance	AK-LV 124

HV-LV resistance before/after ops.	≥ 1 GΩ / 500 V
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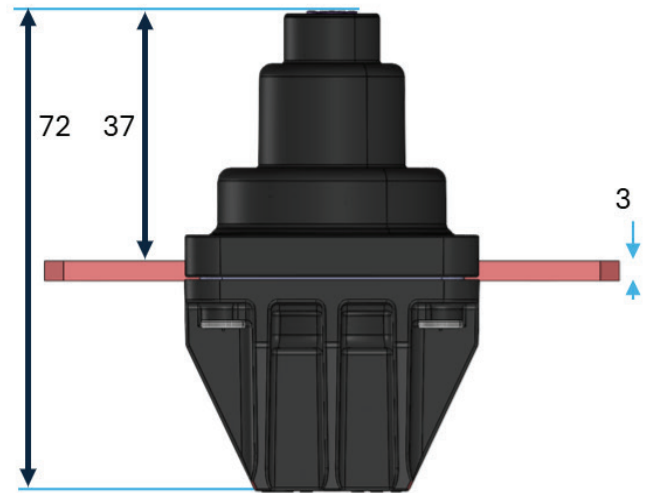
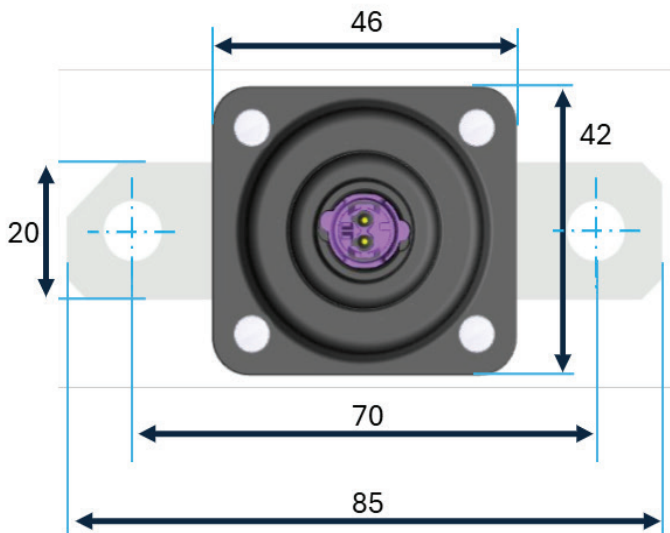
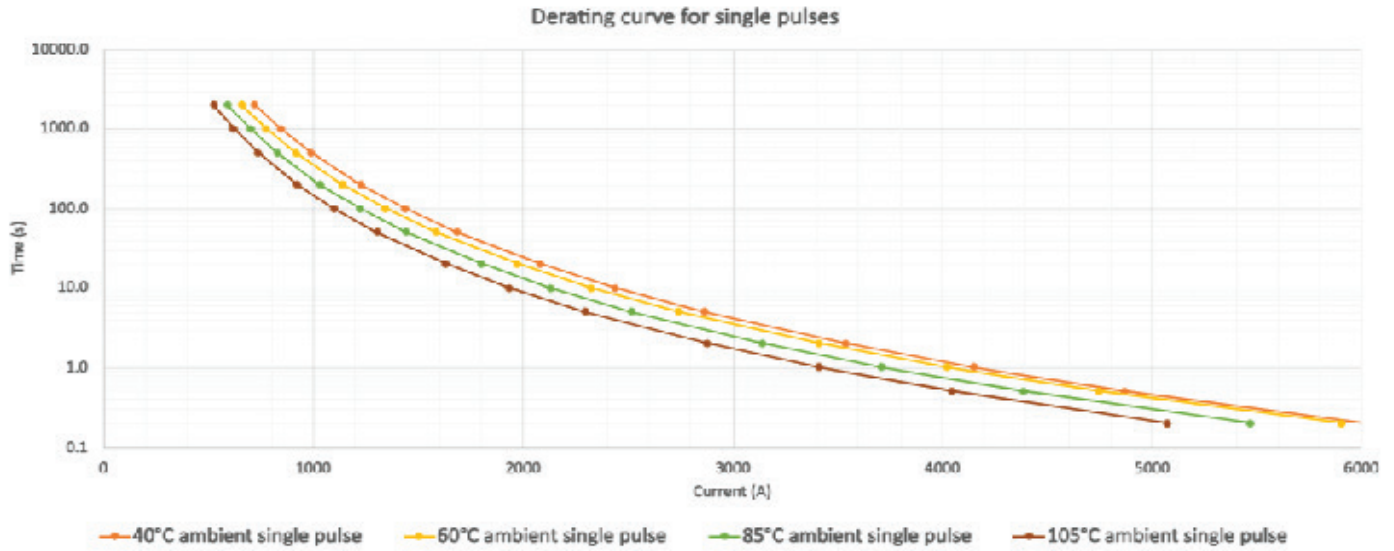
Terminal type

HV Triggering	M6 or M8 ABX-5 or AK-2
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Weight	≤ 145 g
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Technical Data and Dimensions

Performance & Dimensions



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Pyro Safety Switches

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

Pyro Safety Switch PSS-5 1000V 2500J



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- Maximum continuous current 500 A
- Non-reversible device
- Suitable for voltage levels up to 1000 VDC
- High peak current carrying capability up to 25 000 A
- No ionizing gases / No particles exhaust
- Material Flammability : V0



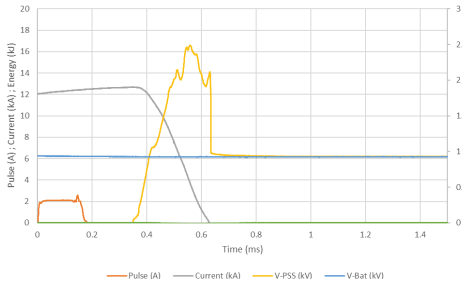
Product specifications

Maximum Switching capacity	Typical 3500J With Cpk 2500J	Triggering conditions	acc. to AK-LV 16 & USCAR
Systems Configurations tested	920 V / 16 000 A / 16 µH 900 V / 15 000 A / 25 µH 900 V / 16 800 A / 25 µH	Ohmic resistance	≥1,7 Ω and ≤ 2,5 Ω
(Other request, contact us)		Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Current carrying capacity		Pulse slope	> 8 mA / µs
Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C		No-triggering current	≤ 0,4 A Or ≤ 5,0 A / ≤ 4 µs
Customers applications examples (Load cable 70 mm ²)	105°C Max, 350 A DC 85°C Max, 420 A DC 50°C Max, 500 A DC	Diagnostic current	< 100 mA
Maximum pulse current	25 000 A / 5 ms	Temperatures	
Busbar		Operating	-40°C... + 105°C
Raw-material (base)	CuSn 0,15	Environmental	-40°C... + 105°C
Plating material (lead-free)	Sn/Ni	Storage	-40°C... + 65°C
Cross-section	60 mm ²	Validations	
Busbar resistance (at RT) before ops.	≤ 0,055 mΩ	Vibration resistance	AK-LV 124
after ops	≥ 50 MΩ / 500 V	Mech. Shock resistance	AK-LV 124
Operating time (920V / 16kA / 16 µH)	With Cpk 1,67 < 2 ms Typical 1,0 ms	Temperature cycle resistance	AK-LV 124
		Chemical loads resistance	AK-LV 124
		HV-VL resistance before/after ops.	≥ 1 GΩ / 500 V
		Terminal type	
		HV	M6 or M8
		Triggering	ABX-5 or AK-2
		Weight	≤ 320 g

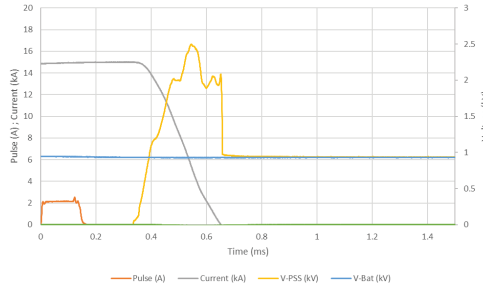
Technical Data and Dimensions

Performance & Dimensions

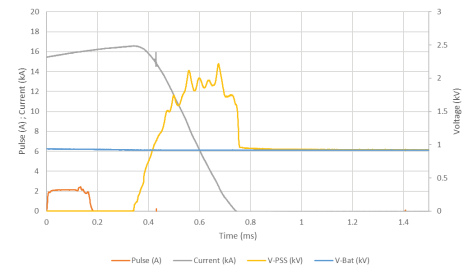
12,5 kA / 900 V / 26 μ H



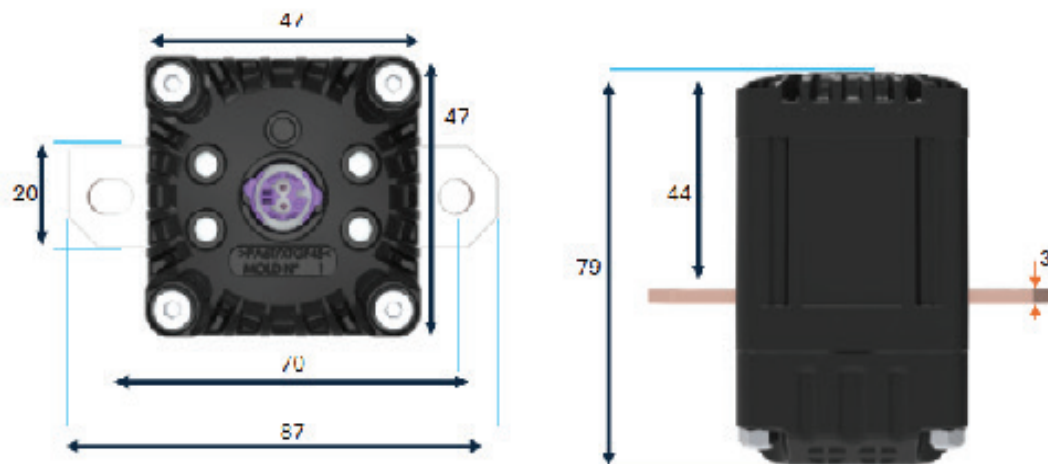
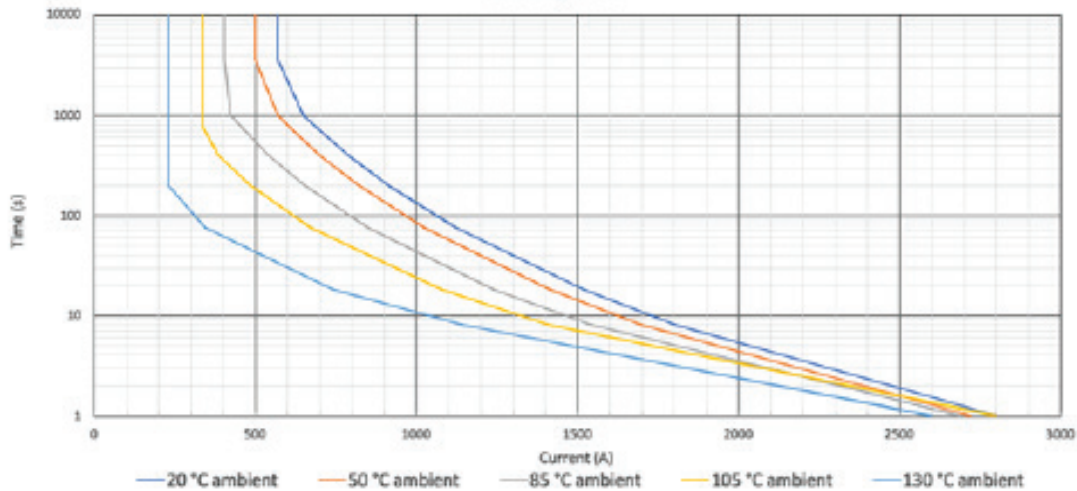
15 kA / 900 V / 26 μ H



16,5 kA / 900 V / 26 μ H



Derating 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



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Pyro Safety Switches

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

Pyro Safety Switch PSS-6



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 functions, like switch-off, or switch-on upon demand.



- Safe crowbar connection based on proven airbag technology
- Non-reversible device
- Suitable for voltage levels up to 550 Vr.m.s.
- Stable and reliable contact
- No ionizing gases / No particles exhaust

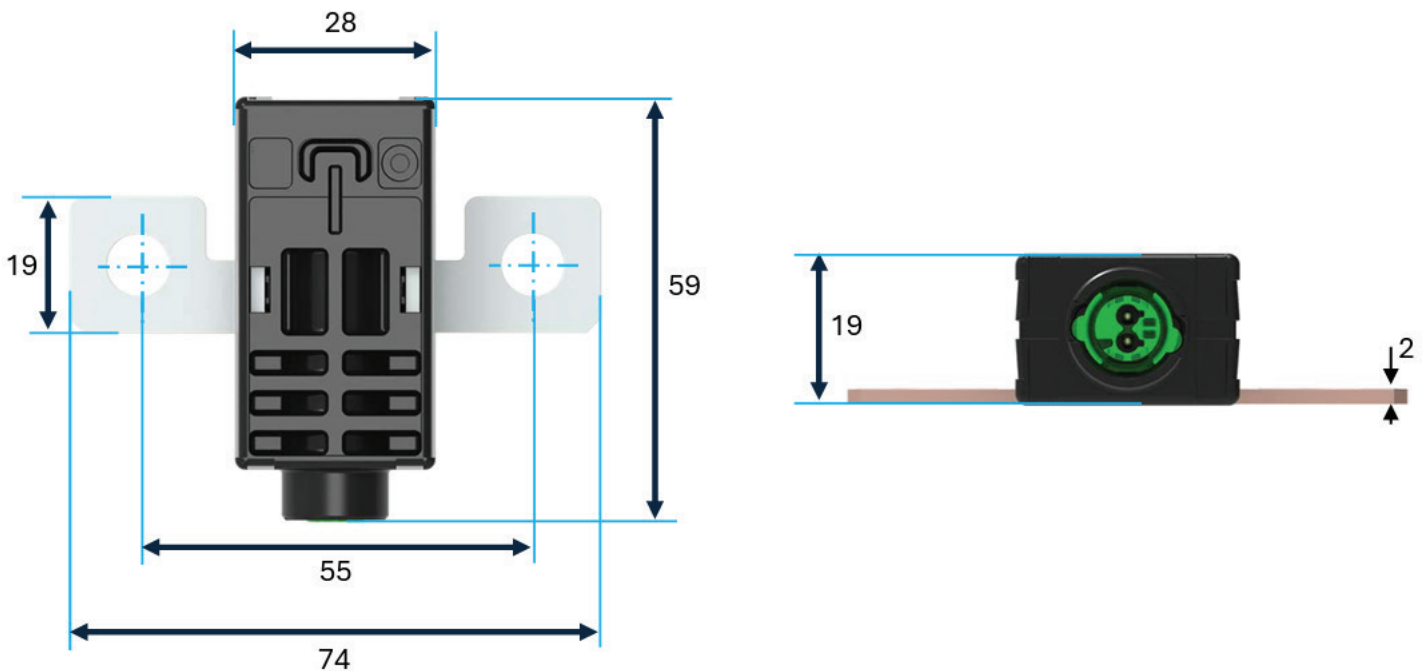
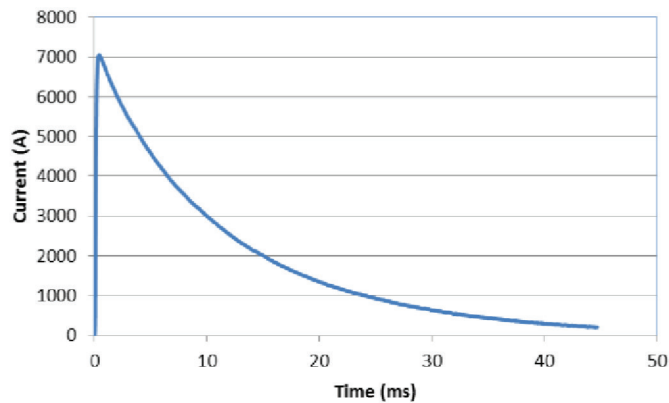
Product specifications

Maximum current profile	5 kA / 5 ms + 600 A / 60 s	Triggering conditions	acc. to AK-LV 16 & USCAR
Systems configurations tested	100 A / 1 year 2 kA / 4s		Ohmic resistance Current pulse
(Other request, Contact us)		Pulse slope	$> 8 \text{ mA} / \mu\text{s}$
Voltage (IEC 60664-1)	Max Creepage pollution degree 2 – 550 V r.m.s.	No-triggering current	$\leq 0,4 \text{ A}$ Or $\leq 5,0 \text{ A} / \leq 4 \mu\text{s}$
Busbar		Diagnostic current	$< 100 \text{ mA}$
Raw material (base)	CuSn 0,15	Temperature	
Plating material (lead-free)	Ni/Ag	Operating	-40°C... + 105°C
Cross-section	38 mm ²	Environmental	-40°C... + 105°C
Busbar resistance (at RT)		Storage	-40°C... + 65°C
before ops.	$\geq 10 \text{ M}\Omega / 500 \text{ V}$	Validations	
after ops.	$\leq 0,3 \text{ m}\Omega$	Vibration resistance	AK LV 124
Operating time	With Cpk 1,67 $< 1 \text{ ms}$ Typical 0,5 ms	Mech. Shock resistance	AK LV 124
		Temperature cycle resistance	AK LV 124
		Chemical loads resistance	AK LV 124
Typical applications		HV-LV resistance before/after ops.	$\geq 1 \text{ G}\Omega / 500 \text{ V}$
The closing device "crowbars" or short-circuits the two Fuel Cell terminals in less than a millisecond. This consumes Hydrogen contained in the Fuel Cell and makes it safe. It can be used as a relay to activate any electrical system, to bypass faulty modules, or discharge capacitors from DC-DC converters.		Terminal type	
		HV	M6 or M8
		Triggering	ABX-5
		Weight	$\leq 80 \text{ g}$

Technical Data and Dimensions

Performance & Dimensions

Short circuit example



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