

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

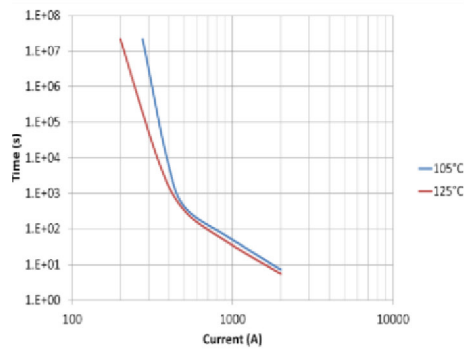
HV	M6 or M8
Triggering	AK-1 AK-2 ABX-3

Weight	≤ 60 g
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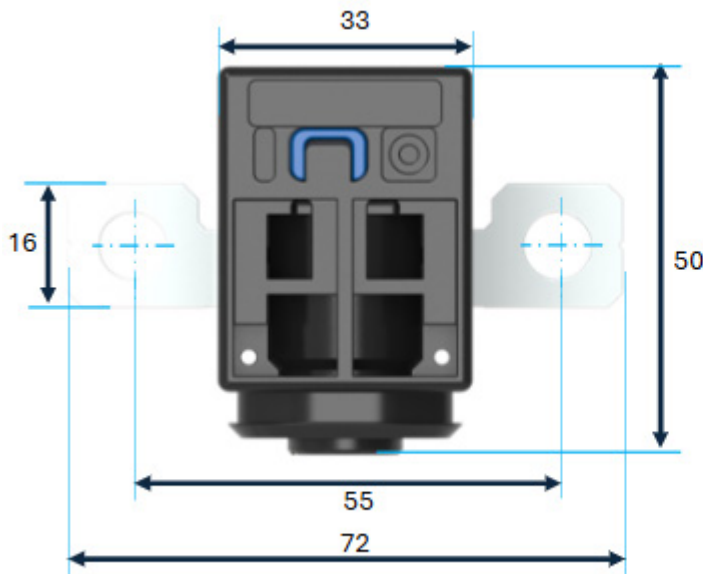
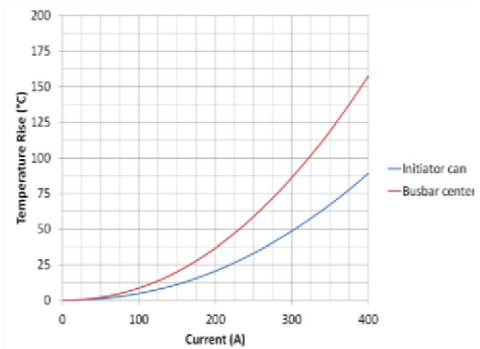
Technical Data and Dimensions

Performance & Dimensions

Derating curve



Temperature rise curve



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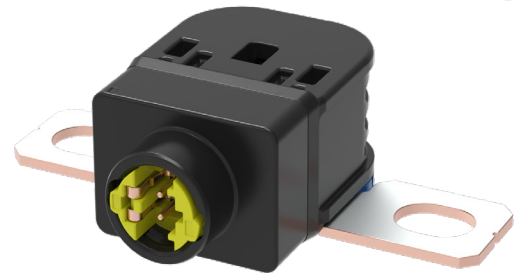
Pyro Safety Switches

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	70 V / 1400 A / $\leq 60 \mu\text{H}$ 32 V / 2 000 A / $60 \mu\text{H}$
(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	125°C 200 A DC
examples (Load cable 50mm ²)	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.	$\leq 0,1 \text{ m}\Omega$
after ops.	$\geq 10 \text{ M}\Omega / 500 \text{ V}$

Operating time	With Cpk $1,67 < 3 \text{ ms}$ Typical 0,8 ms
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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.	$\geq 1 \text{ G}\Omega / 500 \text{ V}$
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Terminal type

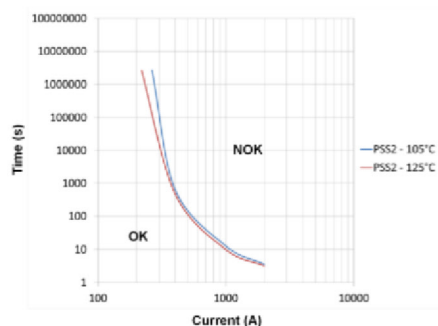
HV	M8 or w/o holes
Triggering	AK-1 AK-2 ABX-3

Weight	$\leq 40 \text{ g}$
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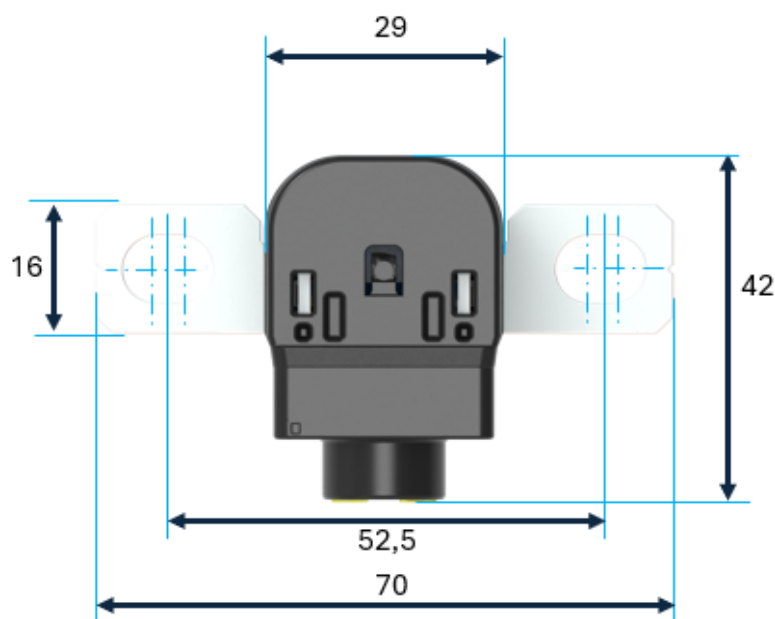
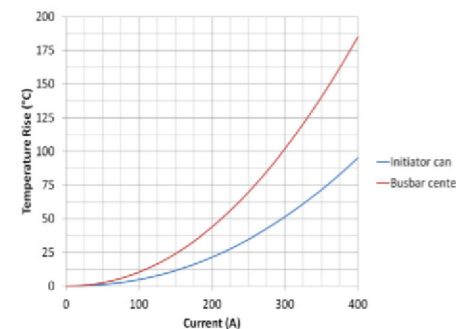
Technical Data and Dimensions

Performance & Dimensions

Derating curve



Temperature rise curve



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Pyro Safety Switches

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Pyro Safety Switch PSS-3



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- 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

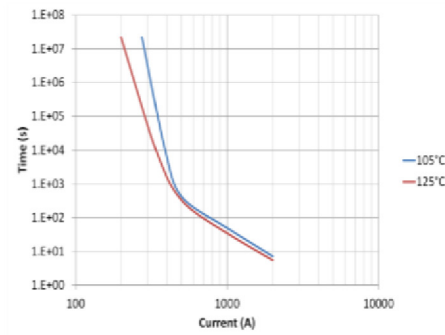
HV	M8
Second circuit	Nano MQS
Triggering	AK-1

Weight	≤ 65 g
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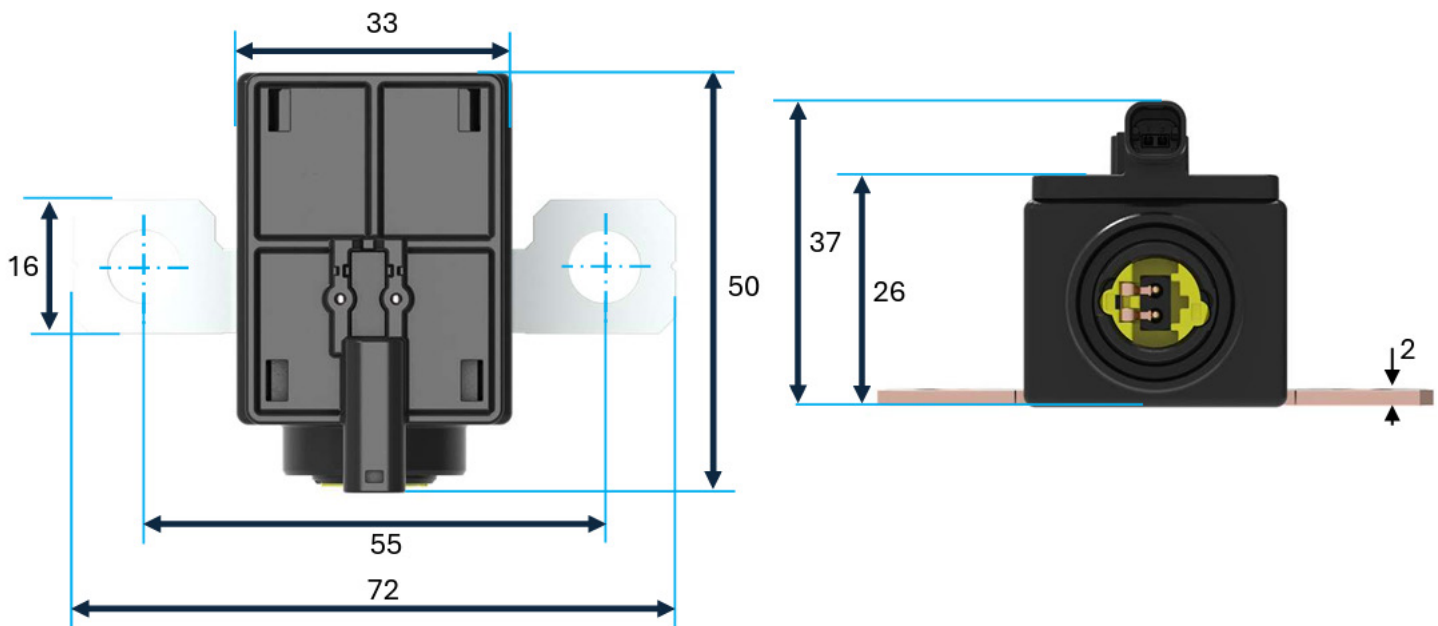
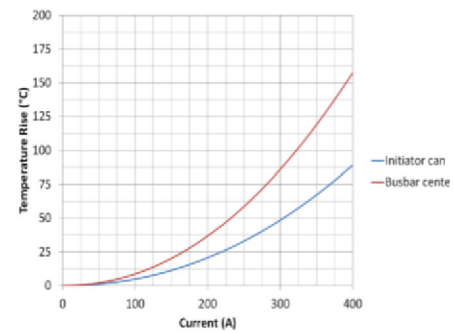
Technical Data and Dimensions

Performance & Dimensions

Derating curve



Temperature rise curve



Read more

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)

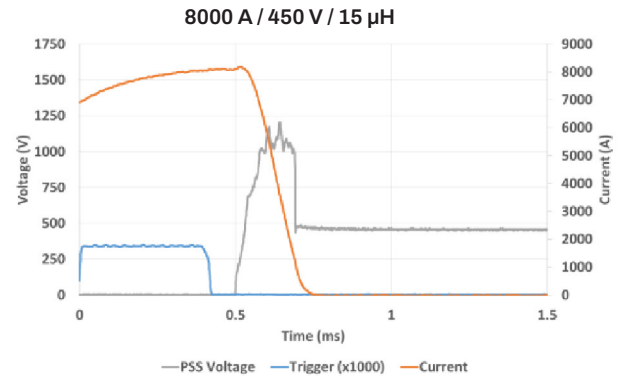
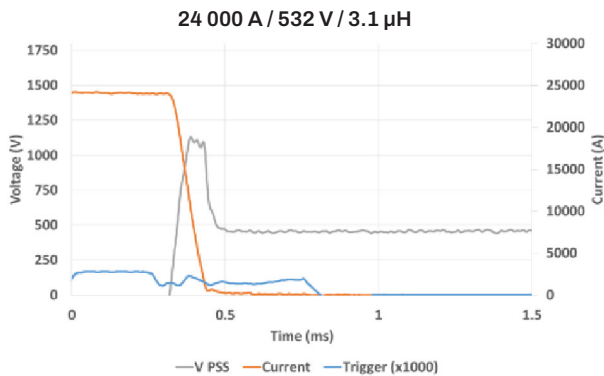


Product specifications

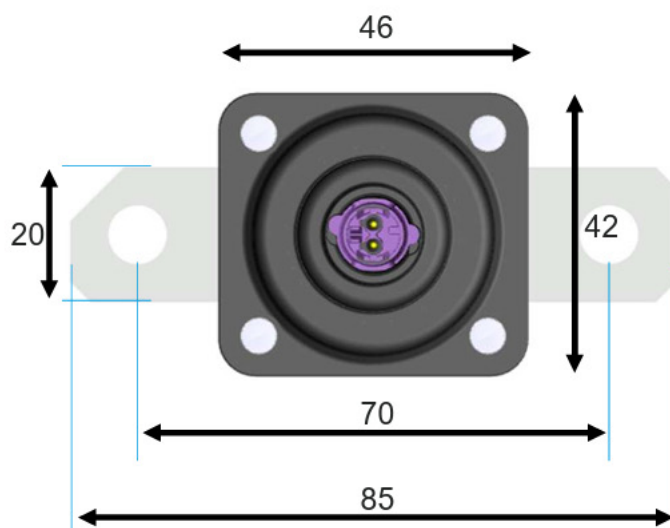
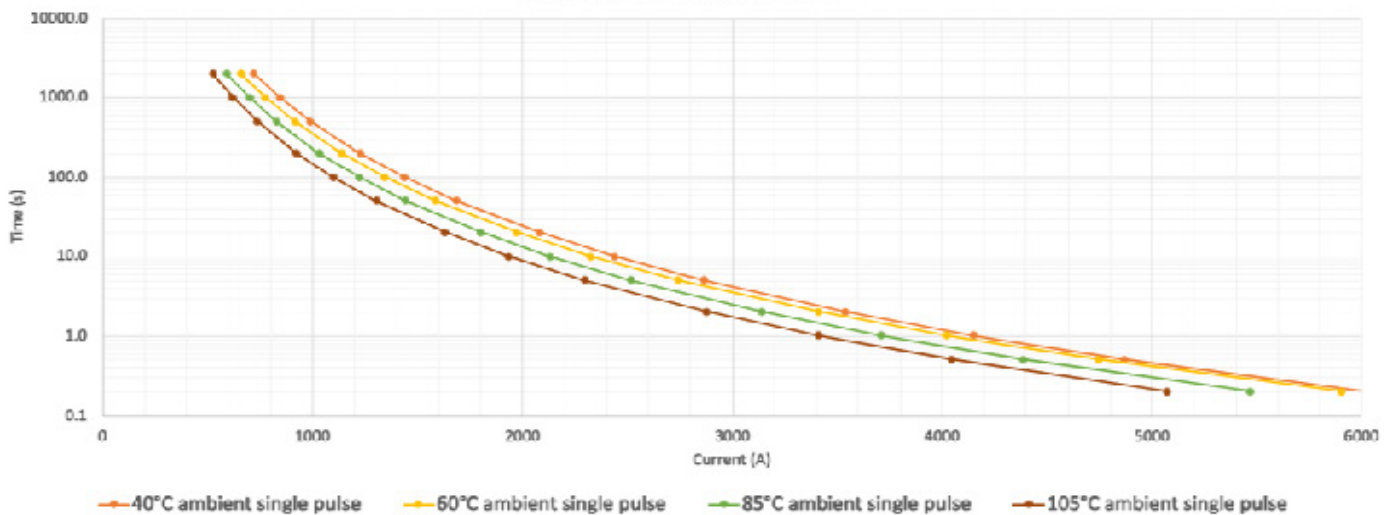
Maximum switching capacity	Typical 2000J With Cpk 1800J	Triggering conditions	acc. to AK-LV 16 & USCAR
Systems configurations tested	475 V / 13 300 A / 20 μ H 475 V / 23 500 A / 2,3 μ H 2 PSS-4 in series: 1000 V / 25 000 A / $\leq$ 5 μ H	Ohmic resistance	$\geq$ 1,7 Ω and $\leq$ 2,5 Ω
(Other request, Contact us)		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 / $\leq$ 4 μ s
		Diagnostic current	$<$ 100 mA
Current carrying capacity		Temperatures	
Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C		Operating	-40°C... + 105°C
		Environmental	-40°C... + 105°C
		Storage	-40°C... + 65°C
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	Validations	
Maximum pulse current	25 000 A / 5 ms	Vibration resistance	AK-LV 124
		Mech. Shock resistance	AK-LV 124
		Temperature cycle resistance	AK-LV 124
		Chemical loads resistance	AK-LV 124
Busbar		HV-LV resistance before/after ops.	$\geq$ 1 G Ω / 500 V
Raw-material (base)	CuSn 0,15	Terminal type	
Plating material (lead-free)	Sn/Ni	HV	M6 or M8
Cross-section	60 mm ² or 78 mm ²	Triggering	ABX-5 or AK-2
Busbar resistance (at RT)			
before ops.	$\leq$ 0,05 m Ω		
after ops	$\geq$ 1 M Ω / 500 V		
Optional	$\geq$ 50 M Ω / 500 V		
Operating time	With Cpk 1,67 $<$ 2 ms	Weight	$\leq$ 145 g
(450 V / 8kA / 15 μ H)	Typical 0,8 ms		
(530 V / 24kA / 3 μ H)			

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 600J

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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 600J
Systems configurations tested 500 V / 10 000 A / 12 μ H
(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 mm ² 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 mm ² or 78 mm ²
Busbar resistance (at RT)	
before ops.	$\leq 0,05$ m Ω
after ops	≥ 50 M Ω / 500 V

Operation time

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

Triggering conditions

Ohmic resistance	acc. to AK-LV 16 & USCAR
Current pulse	$\geq 1,7$ Ω and $\leq 2,5$ Ω
	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 Or $\leq 5,0$ 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	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 G Ω / 500 V

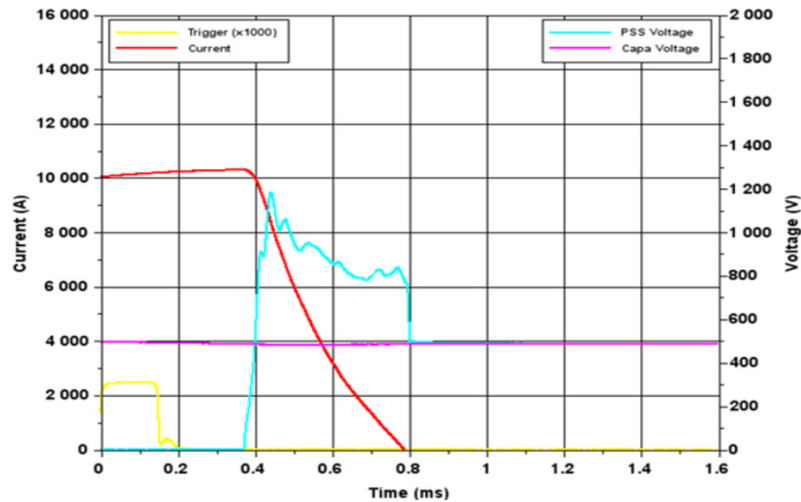
Terminal type

HV	M6 (Standard) or M8 (Option)
Triggering	AK-2 (Standard) or ABX-5 (Option)

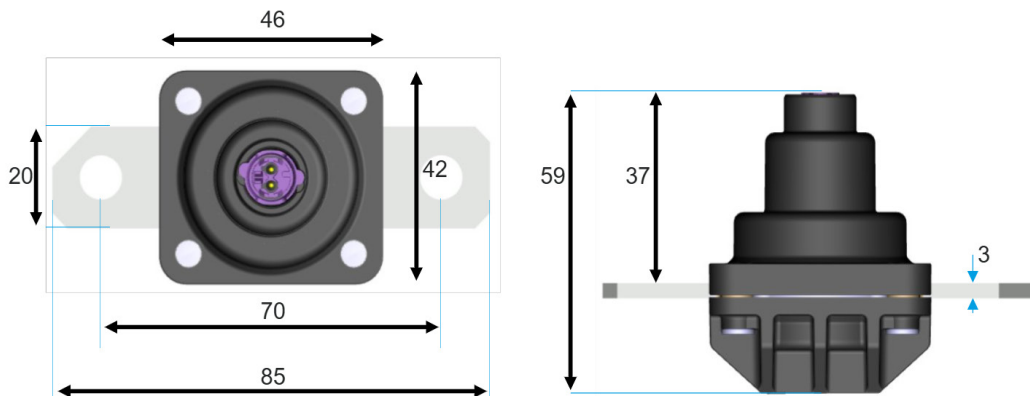
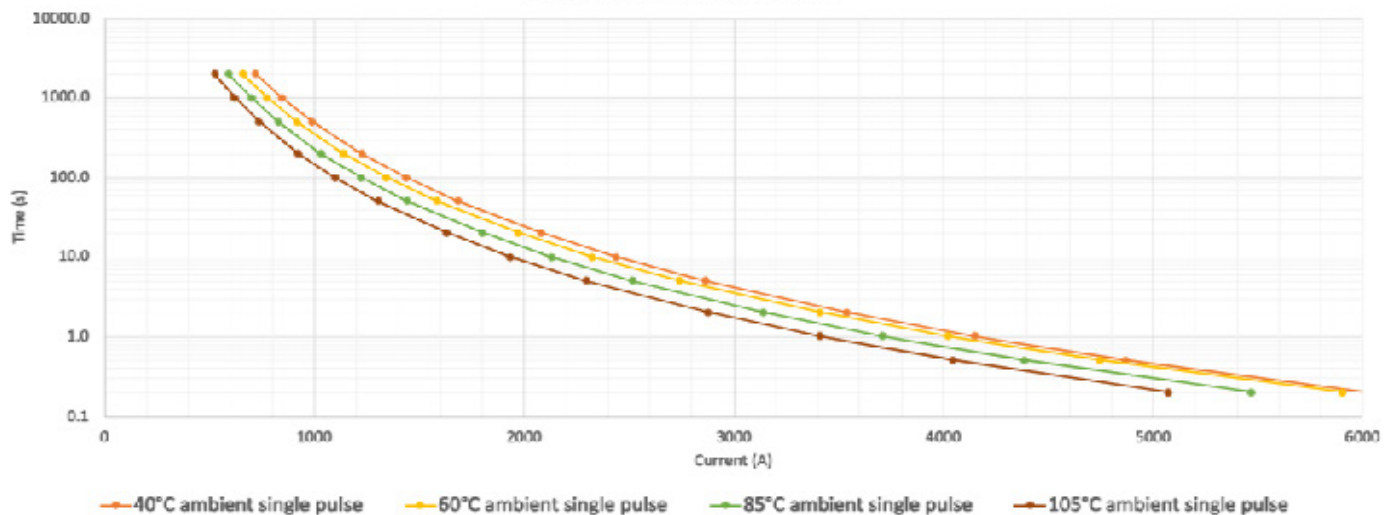
Weight	≤ 125 g
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Technical Data and Dimensions

Performance & Dimensions



Derating curve for single pulses



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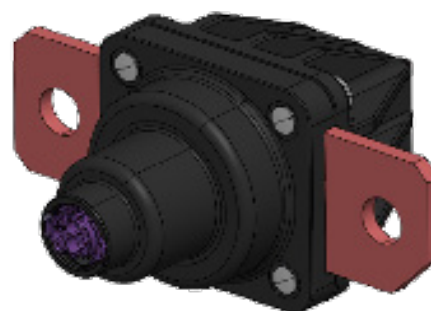
Pyro Safety Switches

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 μ H 940 V / 16 000 A / 1.5 μ H

(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
example	85°C Max, 420 A DC
(Load cable 70 mm ² 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 nominal	60 mm ²
Busbar resistance (at RT)	
before ops.	$\leq 0,05$ m Ω
after ops	≥ 50 M Ω / 500 V

Operation time

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

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 Or $\leq 5,0$ A / ≤ 4 μ s
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 G Ω / 500 V
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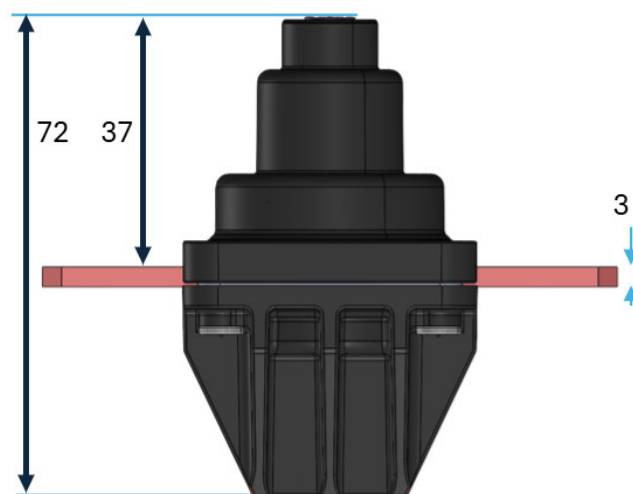
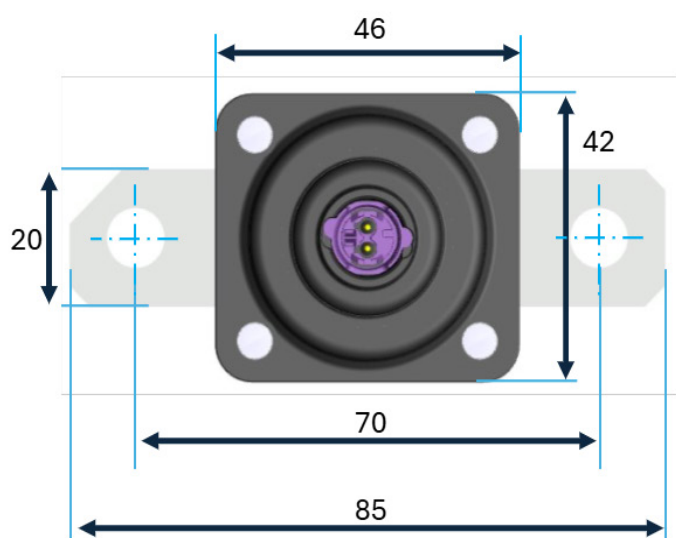
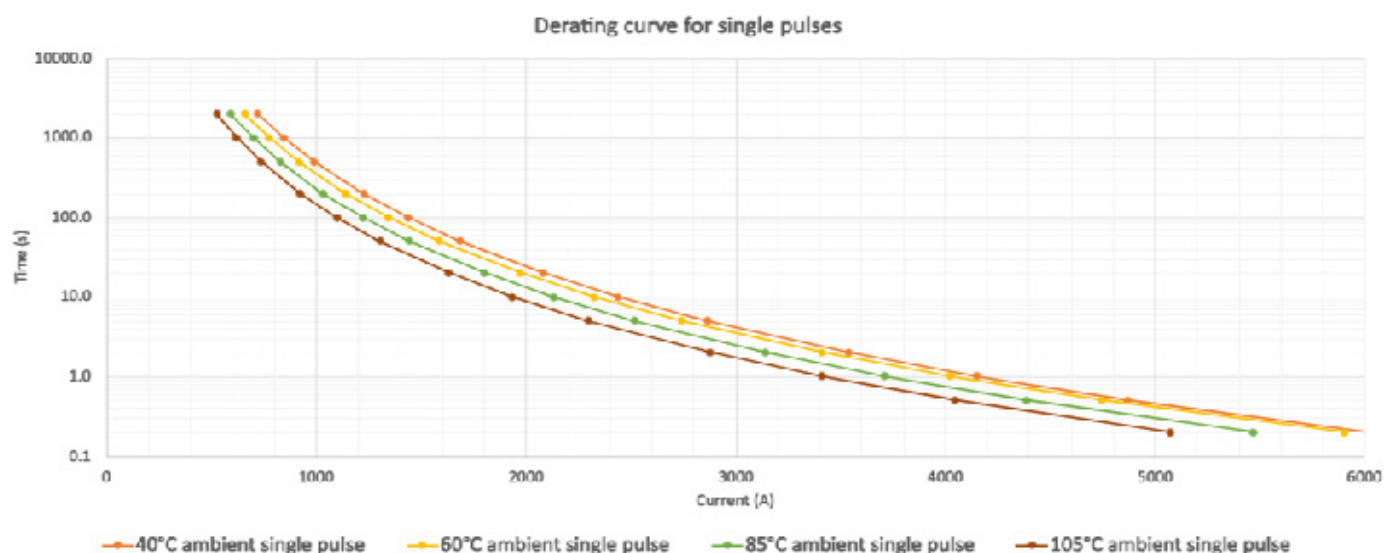
Terminal type

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

Weight	≤ 145 g
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Technical Data and Dimensions

Performance & Dimensions



Read more

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



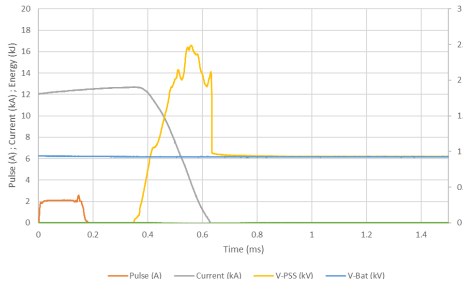
Product specifications

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
		Pulse slope	> 8 mA / µs
		No-triggering current	≤ 0,4 A Or ≤ 5,0 A / ≤ 4 µs
		Diagnostic current	< 100 mA
Current carrying capacity		Temperatures	
Customer cooling system must guarantee the temperature at terminals' connection point does not exceed +125°C		Operating	-40°C... + 105°C
		Environmental	-40°C... + 105°C
		Storage	-40°C... + 65°C
Customers applications examples (Load cable 70 mm²)	105°C Max ,350 A DC 85°C Max, 420 A DC 50°C Max, 500 A DC	Validations	
Maximum pulse current	25 000 A / 5 ms	Vibration resistance	AK-LV 124
		Mech. Shock resistance	AK-LV 124
		Temperature cycle resistance	AK-LV 124
		Chemical loads resistance	AK-LV 124
Busbar		HV-VL resistance before/after ops.	≥ 1 GΩ / 500 V
Raw-material (base)	CuSn 0,15	Terminal type	
Plating material (lead-free)	Sn/Ni	HV	M6 or M8
Cross-section	60 mm²	Triggering	ABX-5 or AK-2
Busbar resistance (at RT) before ops.	≤ 0,055 mΩ	Weight	≤ 320 g
after ops	≥ 50 MΩ / 500 V		
Operating time (920V / 16kA/ 16 µH)	With Cpk 1,67< 2 ms Typical 1,0 ms		

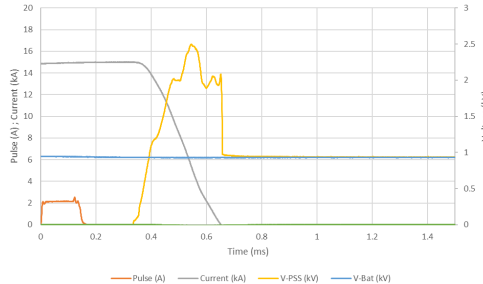
Technical Data and Dimensions

Performance & Dimensions

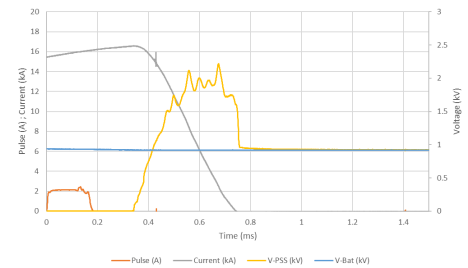
12,5 kA / 900 V / 26 μ H



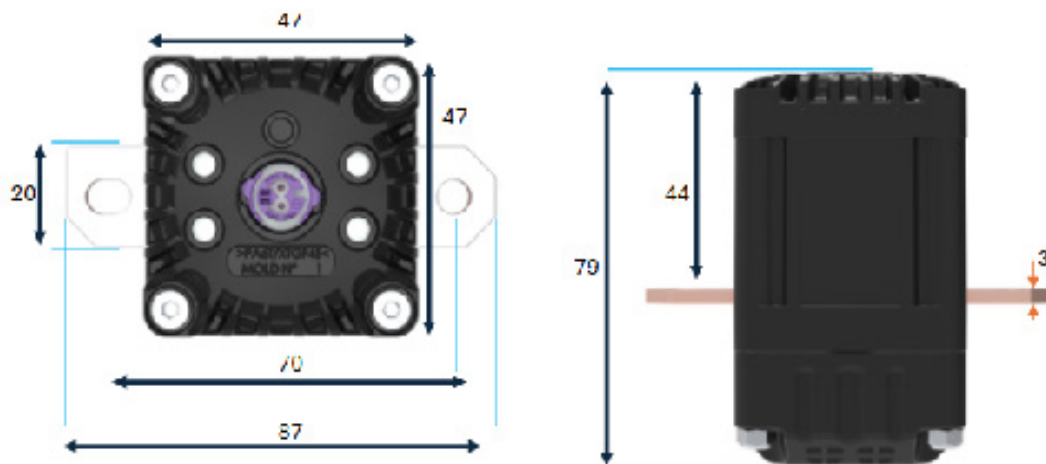
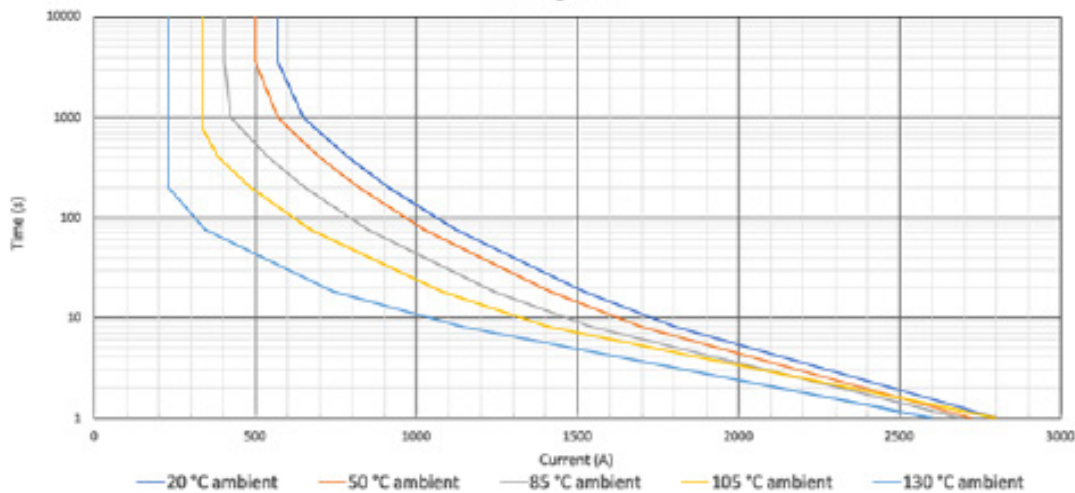
15 kA / 900 V / 26 μ H



16,5 kA / 900 V / 26 μ H



Derating curve



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Pyro Safety Switches

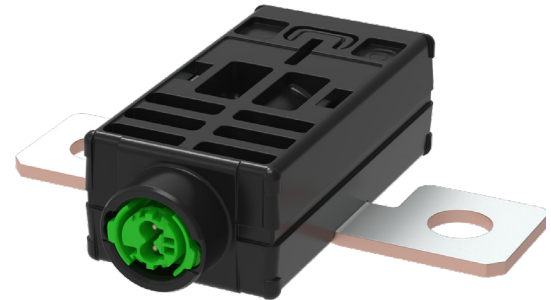
Prevention in milliseconds to avoid short-circuits, fire ignition and battery draining.

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 V.r.m.s.
- Stable and reliable contact
- No ionizing gases / No particles exhaust



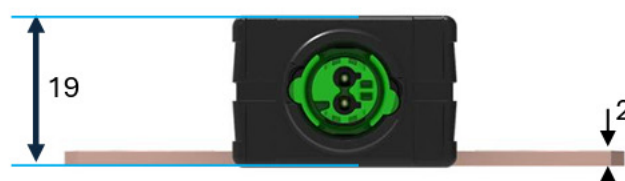
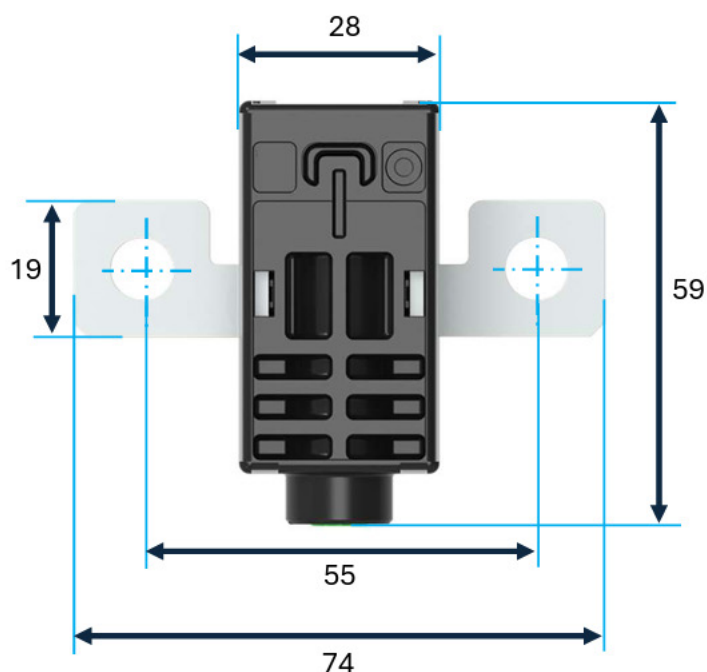
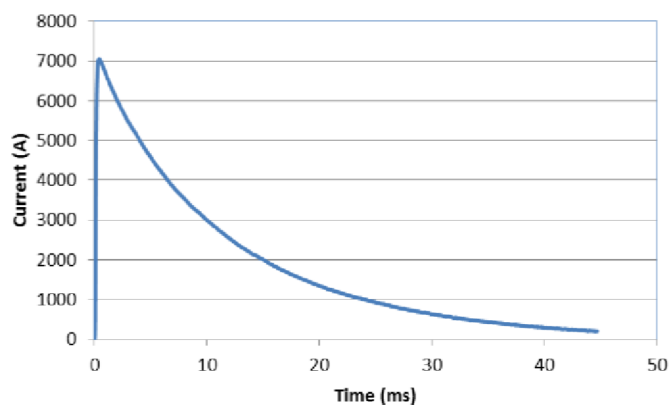
Product specifications

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	$\geq 1,7 \Omega$ and $\leq 2,5 \Omega$
(Other request, Contact us)		Current pulse	1,75 A / 0,5 ms Or 1,20 A / 2,0 ms
Voltage (IEC 60664-1)	Max Creepage pollution degree 2 – 550 V r.m.s.	Pulse slope	$> 8 \text{ mA} / \mu\text{s}$
		No-triggering current	$\leq 0,4 \text{ A}$ Or $\leq 5,0 \text{ A} / \leq 4 \mu\text{s}$
		Diagnostic current	$< 100 \text{ mA}$
Busbar		Temperature	
Raw material (base)	CuSn 0,15	Operating	$-40^\circ\text{C} \dots + 105^\circ\text{C}$
Plating material (lead-free)	Ni/Ag	Environmental	$-40^\circ\text{C} \dots + 105^\circ\text{C}$
Cross-section	38 mm ²	Storage	$-40^\circ\text{C} \dots + 65^\circ\text{C}$
Busbar resistance (at RT)		Validations	
before ops.	$\geq 10 \text{ M}\Omega / 500 \text{ V}$	Vibration resistance	AK LV 124
after ops.	$\leq 0,3 \text{ m}\Omega$	Mech. Shock resistance	AK LV 124
Operating time	With Cpk 1,67 $< 1 \text{ ms}$ Typical 0,5 ms	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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