

# Pyro Safety Switches

Prevention in milliseconds to avoid short-circuits, fire ignition & 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 at 85°C
- Non-reversible device
- Suitable for voltage levels up to 400 VDC
- High peak current carrying capability up to 2 000 A



## Product specifications

### Switching capacity

Inductive load (5 $\mu$ H max)	200 A / 400 V
Inductive load (60 $\mu$ H)	2000 A / 150 V
Capacitive load	> 400V, contact us

### Current carrying capacity

85°C, load cable 50 mm <sup>2</sup>	300 A
105°C, load cable 50 mm <sup>2</sup>	250 A
125°C, load cable 50 mm <sup>2</sup>	200 A

### Maximum short-time current

23°C, load cable 50 mm <sup>2</sup>	2 000 A / 10 s 25 000 A / 5 ms
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### Triggering conditions

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

### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni

### Busbar profile

Cross-section nominal	32 mm <sup>2</sup>
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### Operation time

Release time	< 3 ms
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### Resistance & Insulation data

Busbar resistance (at RT)	
before ops.	$\leq 0,1$ m $\Omega$
after ops	$\geq 10$ M $\Omega$

### Temperature

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

### Other Data

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

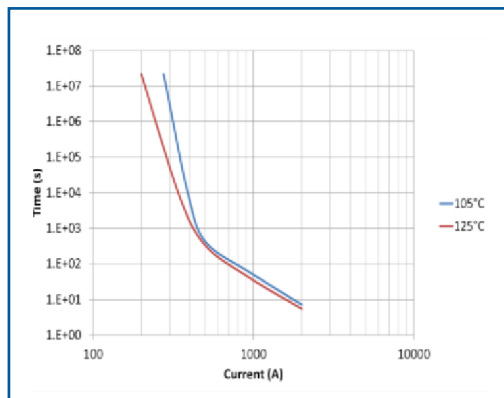
### Terminal type

on bus-bar	M8 screw
on initiator	AK-1 / AK-2 ABX-3 unsealed ABX-3 sealed

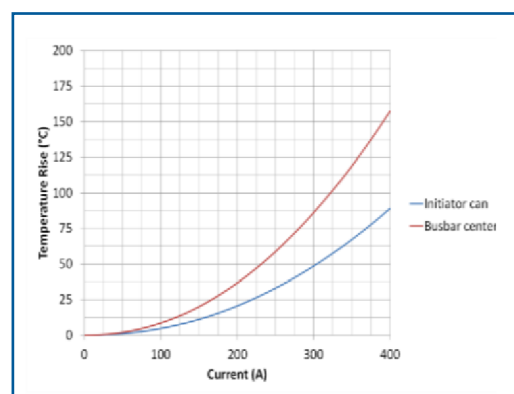
Weight	60 g
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## Technical Data & Dimensions

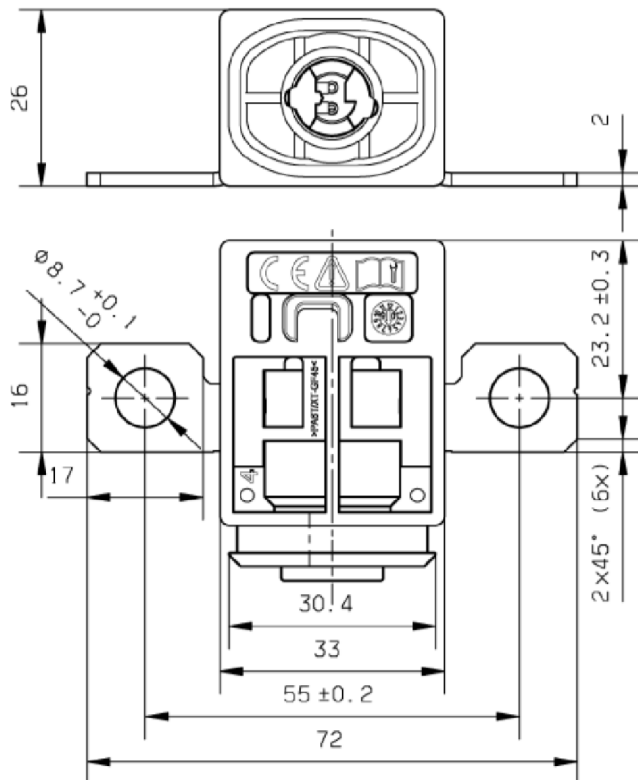
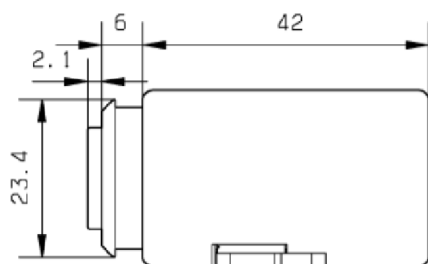
### Derating curve



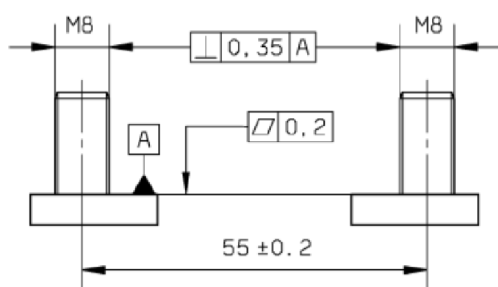
### Temperature rise curve



## Dimensions



### Assembly conditions



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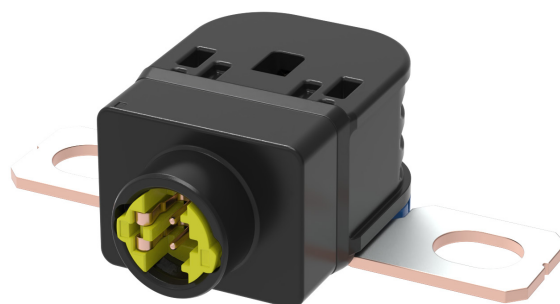
## Pyro Safety Switches

Prevention in milliseconds to avoid short-circuits, fire ignition & 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 at 85°C
- Non-reversible device
- Suitable for voltage levels up to 70 VDC
- High peak current carrying capability up to 2 000 A



### Product specifications

#### Switching capacity

Inductive load (60  $\mu$ H max) 1 400 A / 70 V

Inductive load (60  $\mu$ H) 2000 A / 32 V

For other requests, please contact us

#### Current carrying capacity

85°C, load cable 50 mm<sup>2</sup> 300 A

105°C, load cable 50 mm<sup>2</sup> 250 A

125°C, load cable 50 mm<sup>2</sup> 200 A

Maximum short-time current

23°C, load cable 50 mm<sup>2</sup> 2 000 A / 5 s

#### Triggering conditions

Qualified acc. to AK-LV 16 & USCAR

Triggering circuit resistance  $\geq 1,7 \Omega$  and  $\leq 2,5 \Omega$

Triggering current 1,75 A / 0,5 ms

Or 1,20 A / 2,0 ms

No-triggering current  $\leq 0,4$  A

Or  $\leq 5,0$  A /  $\leq 4 \mu$ s

Diagnostic current:  $< 100$  mA

Triggering pulse slope  $> 8$  mA /  $\mu$ s

#### Busbar

Contact raw-material (base) CuSn 0,15

Contact plating material (lead-free) Sn/Ni

Busbar profile

Cross-section nominal 22 mm<sup>2</sup>

#### Operation time

Release time  $< 3$  ms

#### Resistance & Insulation data

Busbar resistance (at RT)

before ops.  $\leq 0,1$  m  $\Omega$

after ops.  $\geq 10$  M  $\Omega$

#### Temperature

Operating temperature  $-40^\circ\text{C} \dots + 105^\circ\text{C}$

Environmental temperature  $-40^\circ\text{C} \dots + 105^\circ\text{C}$

Storage temperature  $-40^\circ\text{C} \dots + 65^\circ\text{C}$

#### Other Data

Vibration resistance acc. to ISO 16 750 – 3

Mech. Shock resistance acc. to ISO 16 750 – 3

Temperature cycle resistance acc. to ISO 16 750 – 4

Chemical loads resistance acc. to ISO 16 750 – 5

Terminal type

on bus-bar M8 screw

on initiator AK-1 / AK-2

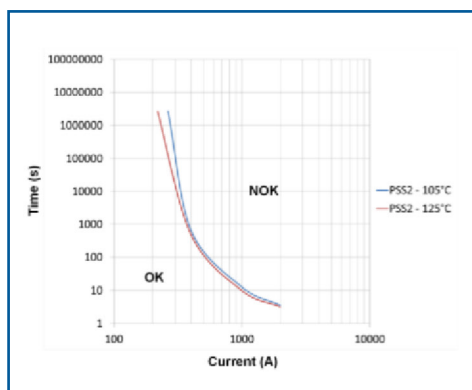
ABX-3

Weight

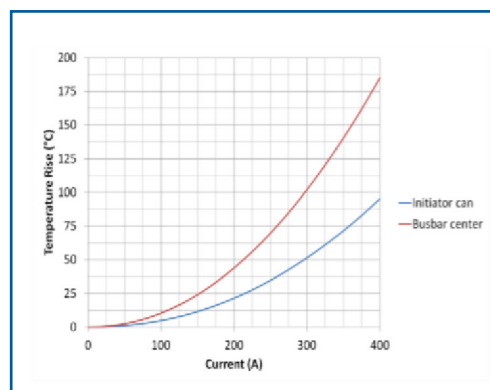
40 g

## Technical Data & Dimensions

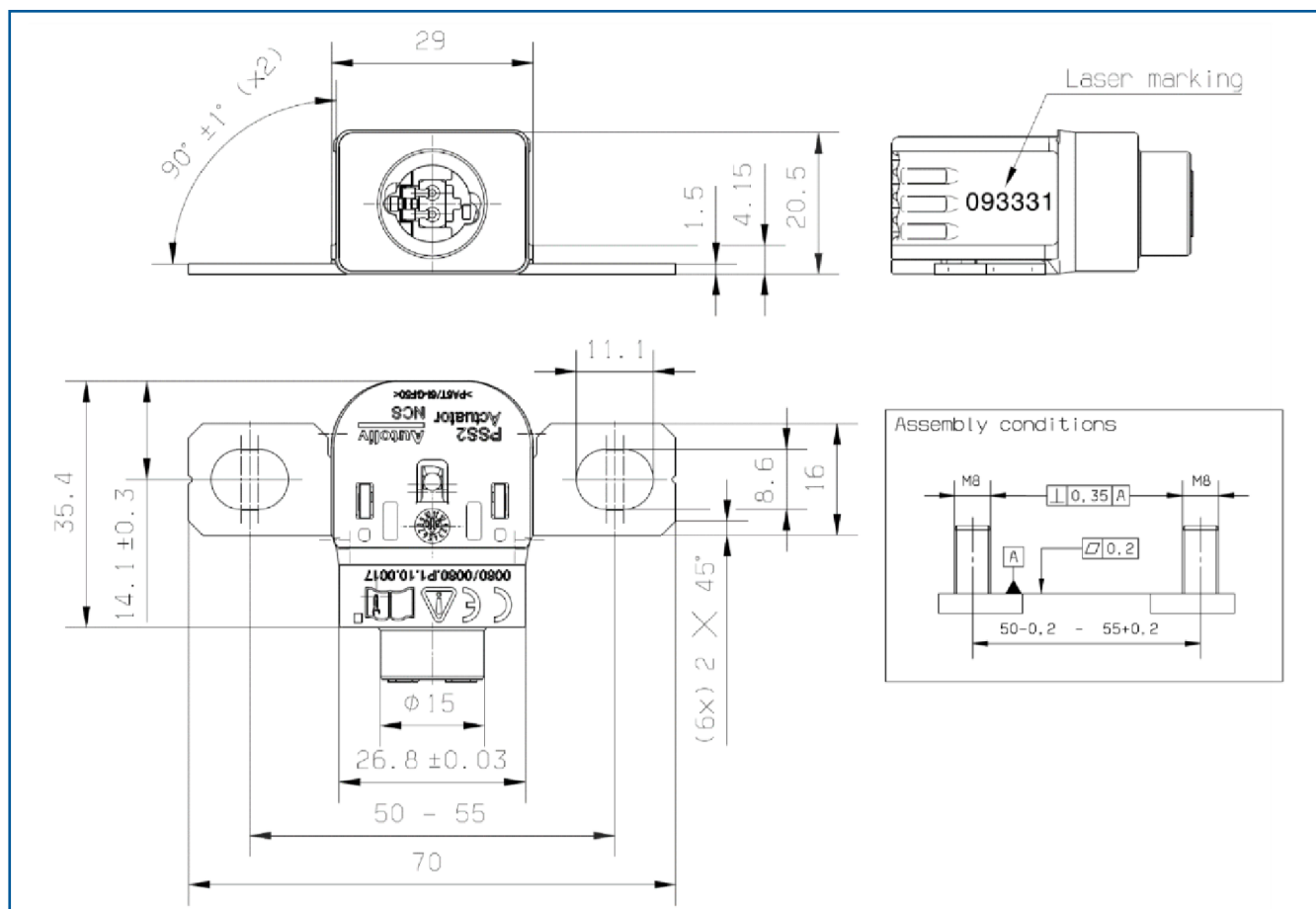
### Derating curve



### Temperature rise curve



## Dimensions



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# Pyro Safety Switches

Prevention in milliseconds to avoid short-circuits, fire ignition & 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 at 85° C
- Second circuit power off simultaneously
- Non-reversible device
- High peak current carrying capability up to 2 000 A



## Product specifications

### Switching capacity

Ohmic load	2 000 A / 200 V
Inductive load (60µH)	2 000 A / 150 V
Capacitive load	> 200 V, contact us

### Current carrying capacity

85°C, load cable 50 mm <sup>2</sup>	300 A
105°C, load cable 50 mm <sup>2</sup>	250 A
125°C, load cable 50 mm <sup>2</sup>	200 A

### Maximum short-time current

23°C, load cable 50 mm <sup>2</sup>	2 000 A / 10 s 25 000 A / 5 ms
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### Triggering conditions

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

### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni

### Busbar profile

Cross-section nominal	32 mm <sup>2</sup>
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### Second circuit

Contact raw-material (base)	Cu-Alloy
Contact plating material (lead-free)	Ag/Ni
wire cross section	0.2 mm <sup>2</sup>

### Operation time

Release time	< 3 ms
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### Resistance & Insulation data

Busbar resistance (at RT)	
before ops.	≤ 0,1 m Ω
after ops	≥ 10 M Ω

### Temperature

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

### Other Data

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

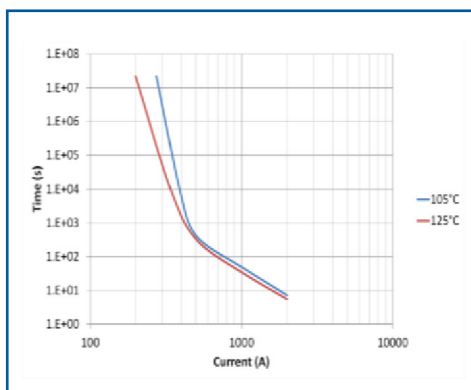
### Terminal type

on bus-bar	M8 screw
on second circuit	NanoMQS
on initiator	AK-1

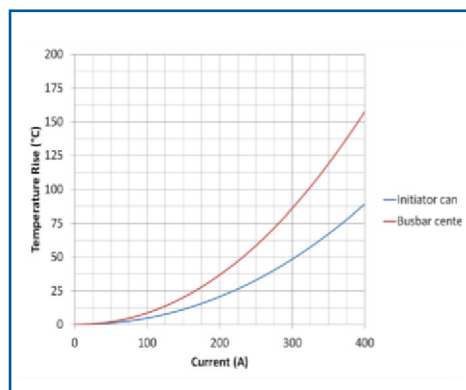
Weight	65 g
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# Technical Data & Dimensions

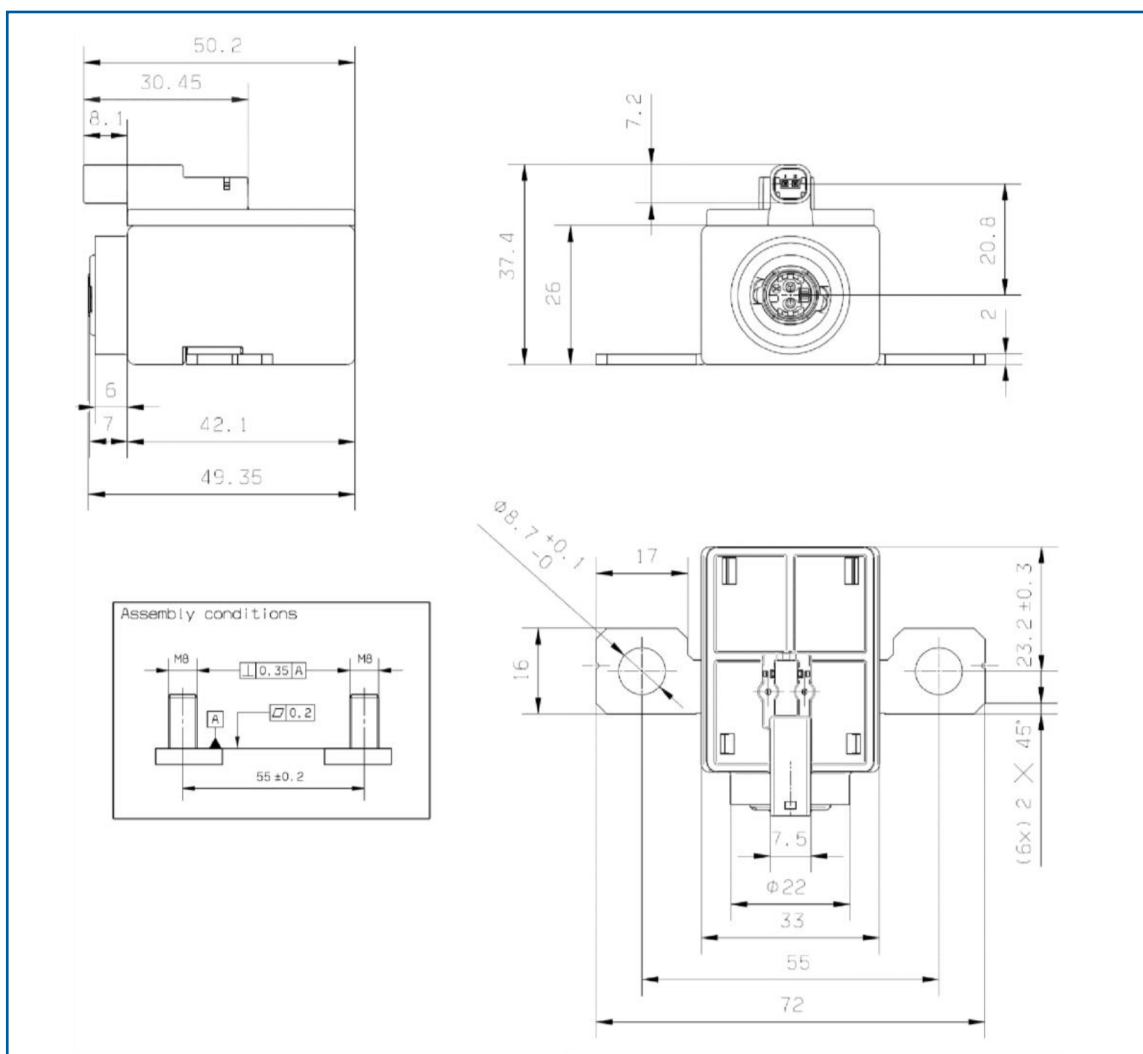
## Derating curve



## Temperature rise curve



## Dimensions



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## Pyro Safety Switches

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

### Pyro Safety Switch PSS-4

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



### Product specifications

#### Switching capacity

Inductive load	475 V / 13 300 A / 20 $\mu$ H
	475 V / 23 500 A / 2,3 $\mu$ H
(Other request, Contact us)	
Maximum switching capacity	1800J
Max switching capacity, 2 PSS-4 in series	
triggered simultaneously	1000 V / 25 000 A / $\leq$ 5 $\mu$ H
(max delay 15 $\mu$ s between triggering signals)	

#### Current carrying capacity

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

Customers applications examples:

105°C Max, load cable 70 mm <sup>2</sup> min	350 A DC
85°C Max, load cable 70 mm <sup>2</sup> min	420 A DC
50°C Max, load cable 70 mm <sup>2</sup> min	500 A DC
Maximum pulse current	25 000 A / 5 ms

#### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni
Busbar profile	
Cross-section nominal	78 mm <sup>2</sup>
Busbar resistance (at RT)	
before ops.	$\leq$ 0,05 m $\Omega$
after ops	$\geq$ 1 M $\Omega$ / 500 V

#### Operation time

Operating time	$<$ 2 ms
Typical	0.8 ms for 450 V / 8 000 A / 15 $\mu$ H
	0.8 ms for 530 V / 24 000 A / 3 $\mu$ H

#### Triggering conditions

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

#### Temperature

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

#### Other Data

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

Other: No ionizing gases / No particles exhaust

#### Terminal type

on bus-bar	M6 or M8
on initiator	ABX-5 or AK-2

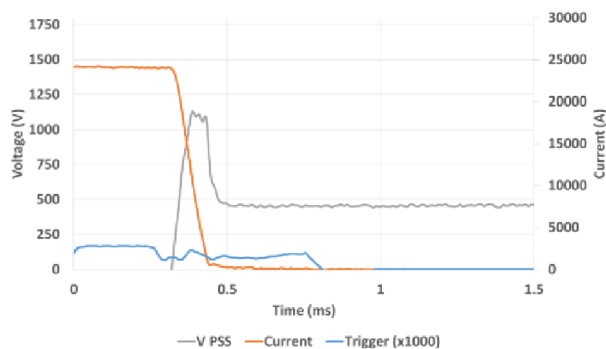
#### Weight

$\leq$  145 g

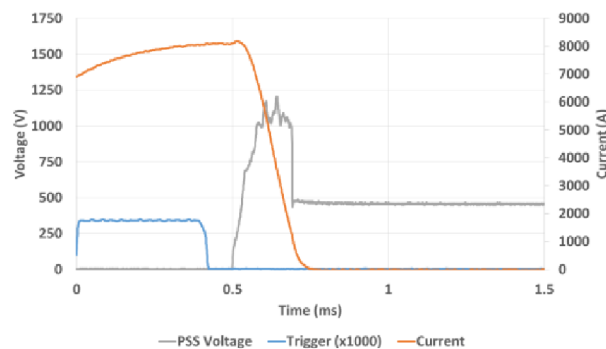
## Technical Data & Dimensions

### Performance & Dimensions

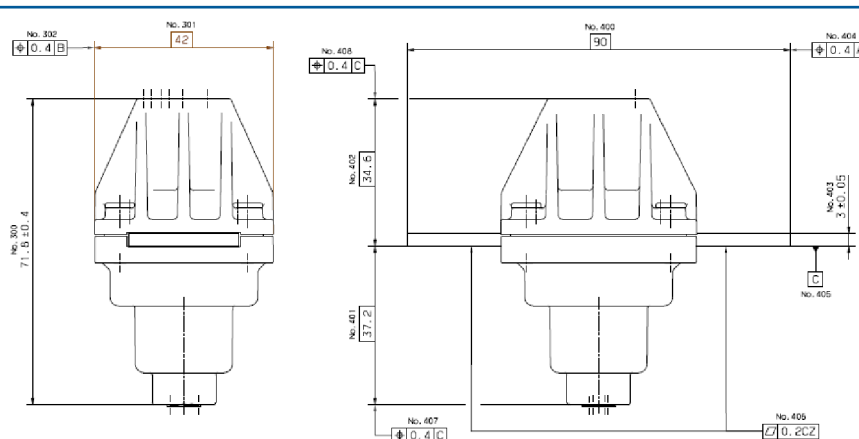
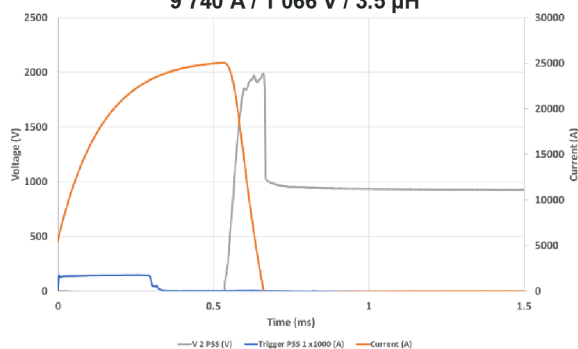
**PSS-4 Typical current switch-off / Battery short-circuit**  
24 000 A / 532 V / 3.1  $\mu$ H



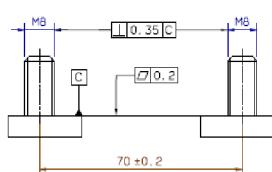
**PSS-4 Typical current switch-off / Test bench**  
8 000 A / 450 V / 15  $\mu$ H



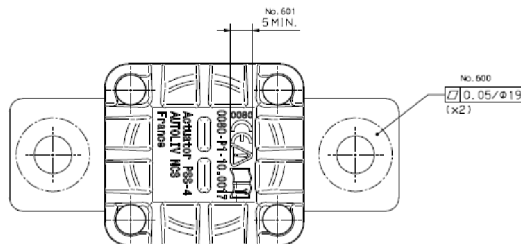
**2 \* PSS-4 in series / Typical current switch-off**  
Battery short-circuit  
9 740 A / 1 066 V / 3.5  $\mu$ H



#### ASSEMBLY CONDITIONS



SCREW HEAD 15 MIN.  
SCREWING TORQUE 20Nm±5Nm



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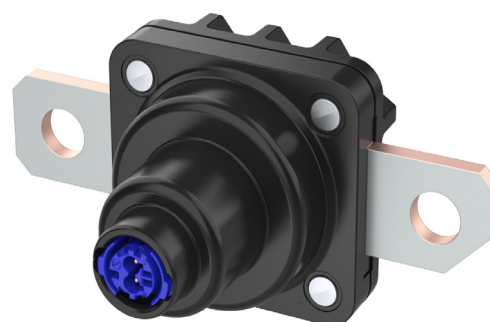
## Pyro Safety Switches

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

### Pyro Safety Switch PSS-4 500V 1000J

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 Switching capacity : 1000 J
- 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



### Product specifications

#### Switching capacity

Inductive load 490 V / 10 000 A / 20  $\mu$ H  
475 V / 12 000 A / 15  $\mu$ H

(Other request, Contact us)

Maximum switching capacity 1000J

#### Current carrying capacity

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

Customers applications examples:

105°C Max, load cable 70 mm <sup>2</sup> min	350 A DC
85°C Max, load cable 70 mm <sup>2</sup> min	420 A DC
50°C Max, load cable 70 mm <sup>2</sup> min	500 A DC
Maximum pulse current	25 000 A / 5 ms

#### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni

Busbar profile	
Cross-section nominal	60 mm <sup>2</sup> or 78 mm <sup>2</sup>
Busbar resistance (at RT)	
before ops.	≤ 0,05 mΩ
after ops	≥ 50 MΩ / 500 V

#### Operation time

Operating time	< 2 ms
Typical	0.8 ms for 450 V / 10 000 A / 20 $\mu$ H

#### Triggering conditions

Qualified acc. to	AK-LV 16 & USCAR
Triggering circuit resistance	≥ 1,7 Ω and ≤ 2,5 Ω
Triggering current	1,75 A / 0,5 ms
Or	1,20 A / 2,0 ms
No-triggering current	≤ 0,4 A
Or	≤ 5,0 A / ≤ 4 $\mu$ s
Diagnostic current:	< 100 mA
Triggering pulse slope	> 8 mA / $\mu$ s

#### Temperature

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

#### Other Data

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

Other: No ionizing gases / No particles exhaust

#### Terminal type

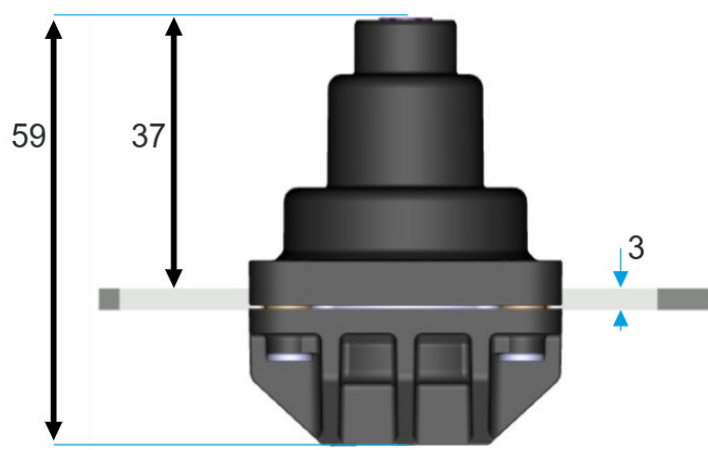
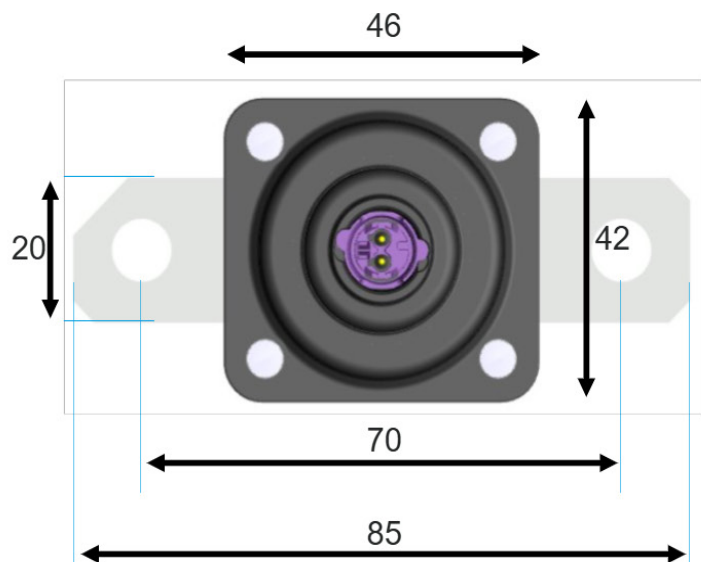
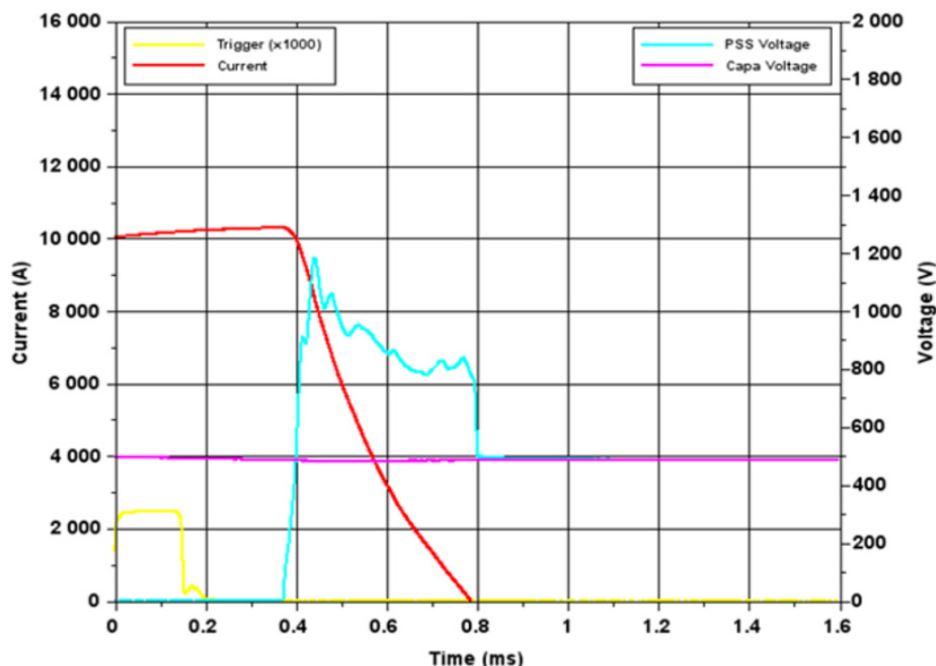
on bus-bar	M6 or M8
on initiator	ABX-5 or AK-2

Weight	≤ 125 g
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## Technical Data & Dimensions

### Performance & Dimensions

Typical current switch-off / Battery short-circuit  
10 000 A / 490 V / 20  $\mu$ H



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## Pyro Safety Switches

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

### Pyro Safety Switch PSS-5

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 1000 VDC
- High peak current carrying capability up to 3500J



### Product specifications

#### Switching capacity

Inductive load                      920 V / 16 000 A / 16 µH  
    900 V / 15 000 A / 25 µH  
    900 V / 16 800 A / 25 µH

Equivalent Coil Energy Performance : 3 500 J

$$\left( \frac{1}{2} L \times I^2 \right)$$

(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 examples:

105°C Max, load cable 95 mm <sup>2</sup> min	350 A DC
85°C Max, load cable 95 mm <sup>2</sup> min	420 A DC
50°C Max, load cable 95 mm <sup>2</sup> min	500 A DC
Maximum pulse current	25 000 A / 5 ms

#### Busbar

Contact raw-material (base)	CuSn 0,15
Contact plating material (lead-free)	Sn/Ni

Busbar profile

Cross-section nominal	60 mm <sup>2</sup>
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Busbar resistance (at RT)

before ops.	≤ 0,055 mΩ
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after ops	≥ 50 MΩ / 1000 V
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#### Operation time

Operating time	< 2 ms
Typical	< 1 ms for 920 V / 16 000 A / 16 µH < 1 ms for 900 V / 15 000 A / 25 µH

#### Triggering conditions

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

#### Temperature

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

#### Other Data

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

Other: No ionizing gases / No particles exhaust

#### Terminal type

on bus-bar	M6 screw
on initiator	ABX-5

Weight	≤ 320 g
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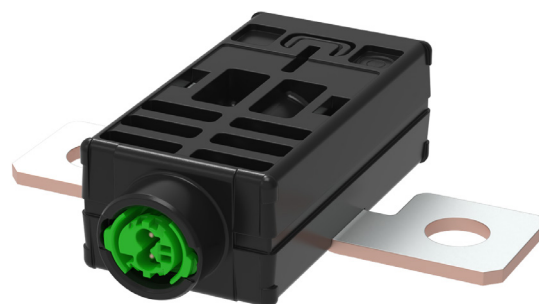
## Pyro Safety Switches

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



### Product specifications

#### 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 mm<sup>2</sup>

#### Operation time

Release time < 1 ms

#### Resistance & Insulation data

Busbar resistance (at RT)  
before ops.  $\geq 10 \text{ M}\Omega$   
after ops.  $\leq 0,3 \text{ m}\Omega$

#### 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.

#### Triggering conditions

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

#### Temperature

Operating temperature -40°C... + 105°C  
Environmental temperature -40°C... + 105°C  
Storage temperature -40°C... + 90°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 No ionizing gases / No particles exhaust

#### Terminal type

on bus-bar M8 screw  
on initiator ABX-5

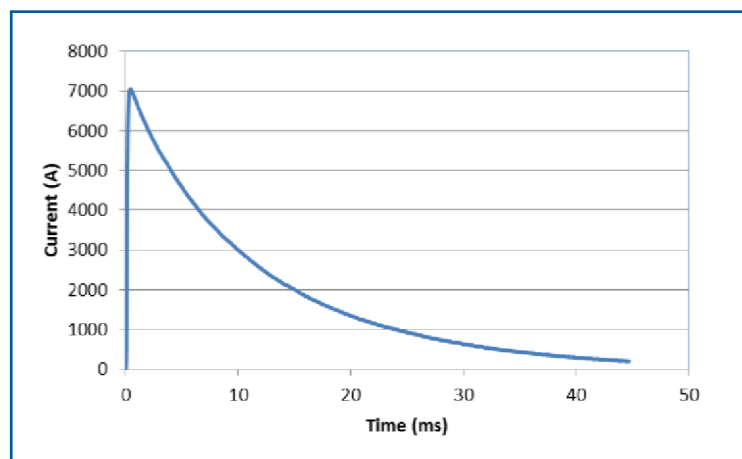
ISO 19072-1 and -5 compliant  
(sealed and un-sealed)

#### Weight

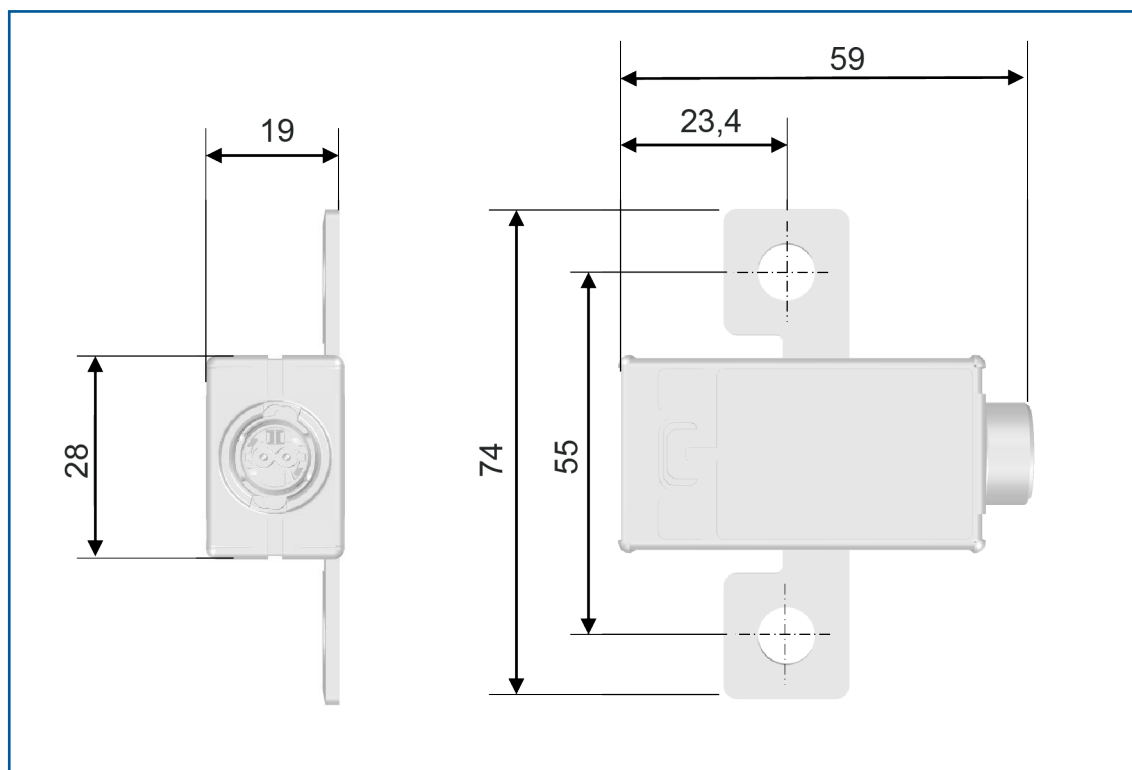
80 g

## Technical Data & Dimensions

### Short circuit example



### Dimensions



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