

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

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Ohmic load	2 000 A / 200 V
Inductive load (60µH)	2000 A / 150 V
Capacitive load	> 200 V. contact us

Current carrying capacity

85°C, load cable 50 mm²	300 A
105°C, load cable 50 mm²	250 A
125°C, load cable 50 mm ²	200 A

Maximum short-time current

23°C, load cable 50 mm²	2000 A / 10 s
	25 000 A / 5 ms

Triggering conditions

Triggering pulse slope

Qualified acc. to	AK-LV 16 & USCAF
Triggering circuit resistance	\geq 1,7 Ω and \leq 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	\leq 5,0 A / \leq 4 μ s
Diagnostic current:	< 100 mA

 $> 8 \text{ mA} / \mu \text{s}$

Busbar

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

Busbar profile

Cross-section nominal 32 mm²

Second circuit

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

Operation time

Release time	< 3 ms

Resistance & Insulation data

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

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

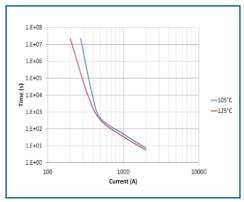
Weight	65 g

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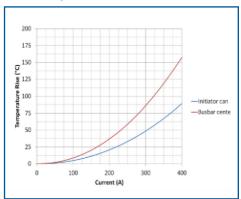


Technical Data & Dimensions

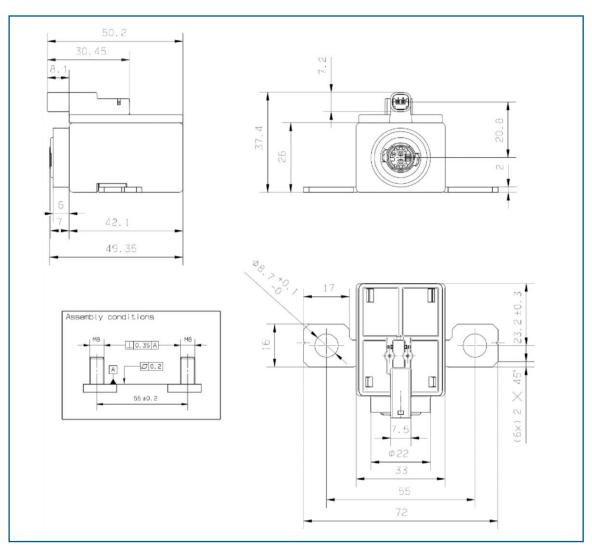
Derating curve



Temperature rise curve



Dimensions



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