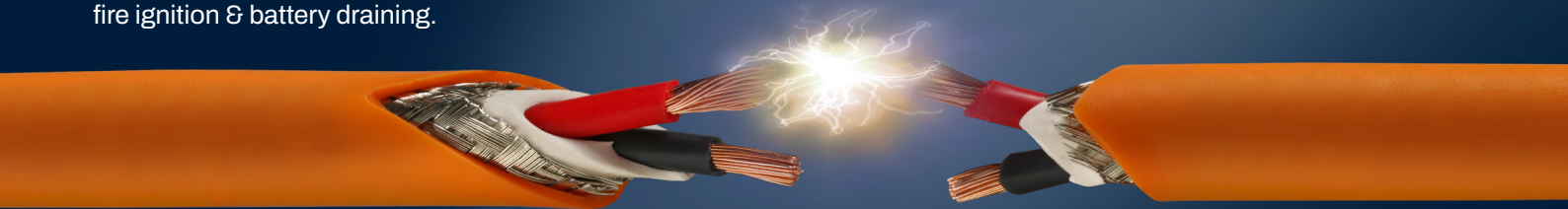


Pyrotechnical Safety Switches

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



PSS-2

Autoliv's industry-standard Pyrotechnical Safety Switches comply with the high-quality requirements of the vehicle industry. Our Pyrotechnical 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 μ H max) | 1 400 A / 70 V |
| Inductive load (60 μ H) | 2000 A / 32 V |
| For other requests, please contact us | |

Current carrying capacity

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

Maximum short-time current

| | |
|-------------------------------------|---------------|
| 23°C, load cable 50 mm ² | 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 / μ s |

Busbar

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

Busbar profile

| | |
|-----------------------|--------------------|
| Cross-section nominal | 22 mm ² |
|-----------------------|--------------------|

Operation time

| | |
|--------------|--------|
| Release time | < 3 ms |
|--------------|--------|

Resistance & Insulation data

| | |
|---------------------------|-----------------------|
| Busbar resistance (at RT) | |
| before ops. | $\leq 0,1$ 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

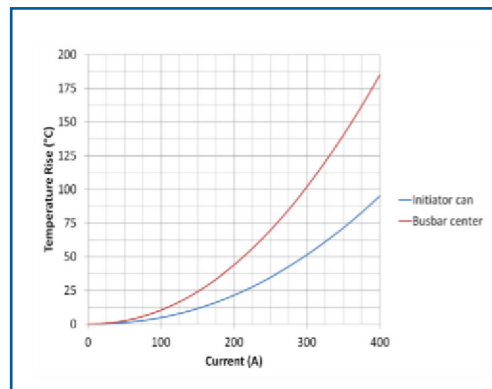
| | |
|--------------|----------------------|
| on bus-bar | M8 screw |
| on initiator | AK-1 / AK-2 ABX-3 |

Weight

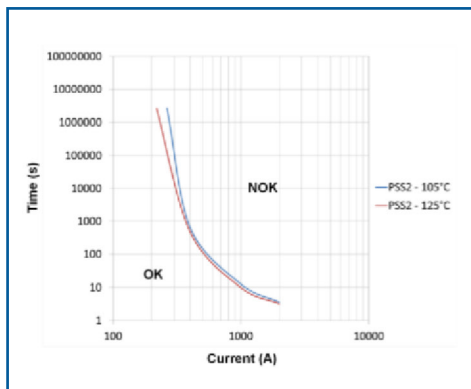
40 g

Technical Data & Dimensions

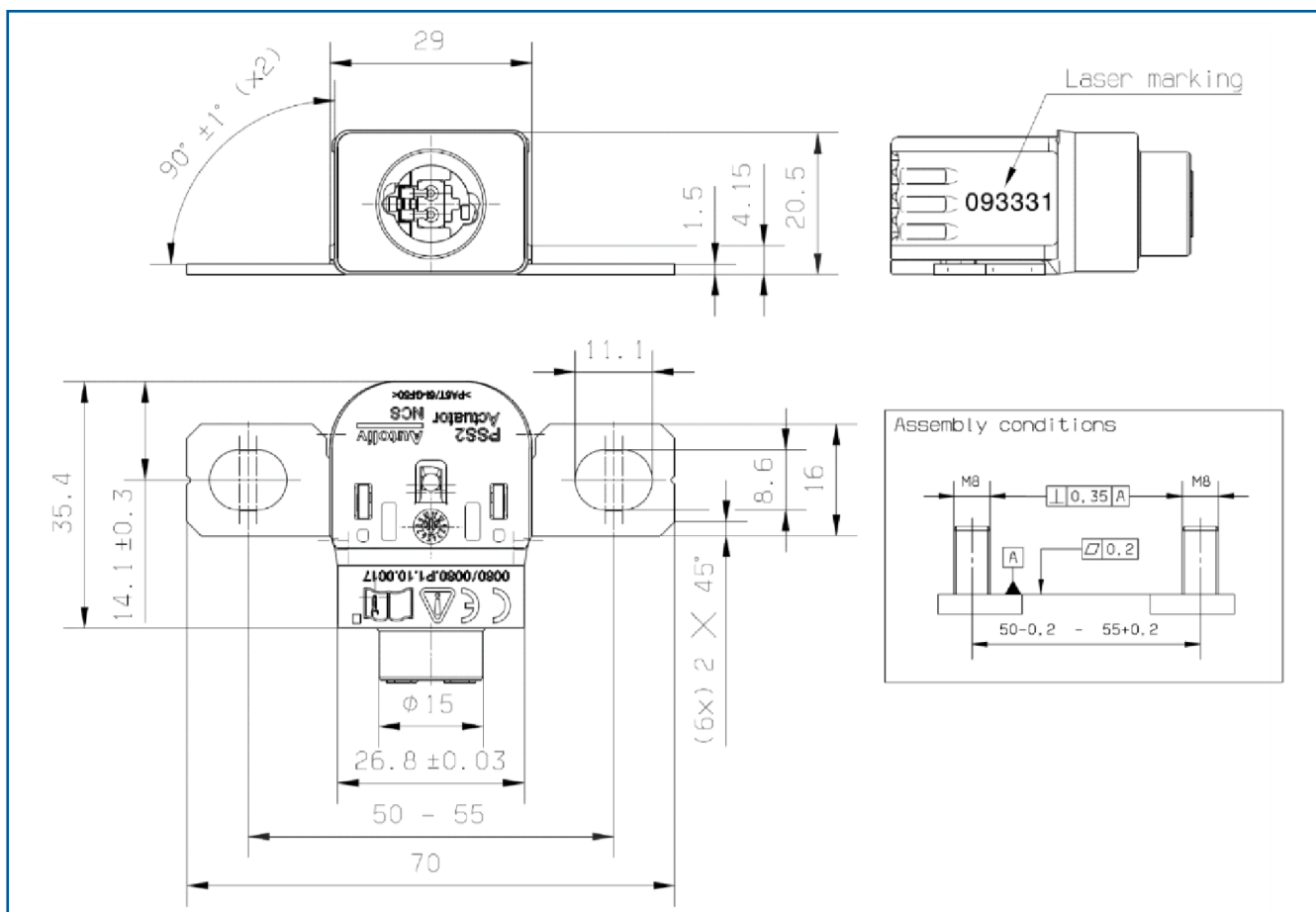
Temperature rise curve



Derating curve



Dimensions



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