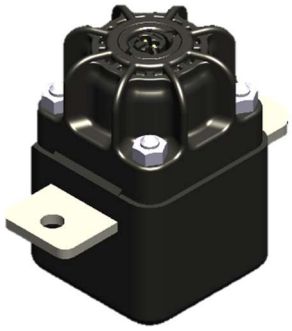
Timeless Insight, New Mobility

Pyro Switch Device PYSD-05-2

Pyro Switch for high voltage/current applications

- **Fast separation time**
- **Low internal resistance**
- **High insulation resistance after activation**
- **Irreversible device**



General Specifications

Breaking Capacity	
450V / 16kA /15μH	
920V/10.5kA /15μH	
Current carrying capacity*	
	500A@25degC
	400A@50degC
	250A@85degC

*Tested with 100mm^2 terminal. This capacity depends on the cooling system, terminal size and contact surface etc. The other data on request.

Separation time Current detection to Zero A	<1msec@2.5A trigger
Weight	<250g

Busbar

Busbar resistance	<40μΩ before function
	>50MΩ after function
Busbar cross section	24mm x 3mm
Busbar material:	Copper
	plating on request
Terminal type	M6 screw or welding

Size

UL94 Non V0 □44×L85×H67.8

UL94 V0 □47×L85×H69

Temperature

Operating temp.	-40degC to 85degC
Storage temp.	-40degC to 85degC

Qualification

in accordance with AK-LV124

Initiator Specifications

Qualified acc. to AK-LV 16 & USCAR

Initiator resistance	2.1±0.4Ω
Triggering pulse current	≥ 1.75 A / 0.5 ms
	Or ≥ 1.20 A / 2 ms
No-triggering pulse current	≤ 0.4 A
	Or ≤ 5.0 A / ≤ 4 μs
Diagnostic current	100 mA
Self-ignition	>300degC
Connector type	VDA-AK 1 or AK 2 according to ISO 19072

This is a provisional specification and may be subject to change without any notification. The contents of this data sheet are the test results under specific conditions. Further detail data information is on request.

Pacific Engineering Corporation

450, Hinoki-cho, Ogaki, Gifu, 503-0981, Japan

+81 584 91 3131

Revision 05