# SSLS, Solid-State Load Switch, 75A



Technical Data Sheet

Kuerzi Aviation AG Flugplatz CH-9506 Lommis

info@kuerzi.com www.kuerzi.com

Tel. +41 52 376 22 27

#### Description

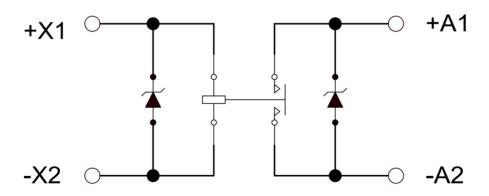
The Solid-State Load Switch is intended for use in 28VDC aircraft electrical systems and can switch currents up to 75A. It's sealed between the base and top parts and the load terminals, allowing internal pressure equalization through a membrane at the bottom of the unit.

The SSLS meets aviation standards and requirements and is delivered with a COC or EASA Form 1 upon request. The applicable approval can be provided by us specifically for your aircraft type.

#### Features

+18VDC to +32VDC control voltage 28VDC / 75A load Industrial standard footprint Output transition time less than 5mS





#### **Environmental Specifications according DO-160 / ED-14**

Temperature and Altitude	DO-160G Section 4 Cat. D2
Temperature Variation	DO-160G Section 5 Cat. B
Humidity	DO-160G Section 6 Cat. B
Operational Shock and Crash Safety	DO-160G Section 7 Cat. A
Vibration	DO-160G Section 8 Cat. S (curve C)

SSLS, Solid-State Load Switch, 75A	Technical Data Sheet		
Explosion Proofness	DO-160G Section 9 Cat. X		
Waterproofness	DO-160G Section 10 Cat. Y		
Fluids Susceptibility	DO-160G Section 11 Cat. X		
Sand and Dust	DO-160G Section 12 Cat. S		
Fungus Resistance	DO-160G Section 13 Cat. F		
Salt Spray	DO-160G Section 14 Cat. S		
Magnetic Effect	DO-160G Section 15 Cat. C		
Power Input	DO-160G Section 16 Cat. B		
Voltage Spike	DO-160G Section 17 Cat. A		
Audio Frequency Conducted Susceptibility - Power Inputs	DO-160G Section 18 Cat. B		
Induced Signal Susceptibility	DO-160G Section 19 Cat. ZC		
Radio Frequency Susceptibility (Radiated and Conducted)	DO-160G Section 20 Cat. RR		
Emission of Radio Frequency Energy	DO-160G Section 21 Cat. X		
Lightning Induced Transient Susceptibility	DO-160G Section 22 Cat. A3 C3 XX		
Lightning Direct Effects	DO-160G Section 23 Cat. X		
Icing	DO-160G Section 24 Cat. X		
Electrostatic Discharge	DO-160G Section 25 Cat. A		
Fire, Flammability	DO-160G Section 26 Cat. C		

#### Interface

Symbol	Parameter	Conditions	Value			Unit		
			Min	Тур.	Max	Unit		
Control circuit								
Vc	Nominal Control Voltage		18	28	32	VDC		
VCPU	Pick-Up Control voltage		12	15	18	VDC		
Vcdo	Drop-Out Control Voltage		6	8	10	VDC		
Icc	Continuous control current	V <sub>C</sub> =0 VDC	-	-	0	mA		
Icc	Continuous control current	V <sub>C</sub> >=18 VDC	-	-	20	mA		
Load circuit								
VL	Continuous Voltage between		0	28	32	VDC		
	Load terminals							
V <sub>Lpeak</sub>	Non-repetitive Peak voltage	< 10s			60	VDC		
	between Load terminals							
IL.	Continuous Load current	$V_{\rm C}$ > $V_{\rm CPU}$			75	Α		
		-55 °C < T <sub>ENV</sub> < 70 °C						
I <sub>Lpeak</sub>	Non-repetitive Peak current	100ms max,			200	A		
		60s recovery time						
IRP	Repetitive peak current	10Hz, 50% duty cycle			100	Α		
TENV	Environmental temperature	Operational	-55		70	°C		
		Thermal fuse trip point	175			°C		
L	Maximal inductive load	I∟= 75A resistive			0.5	mH		
CL	Maximal capacitive load				2200	μF		

Gr

56.00

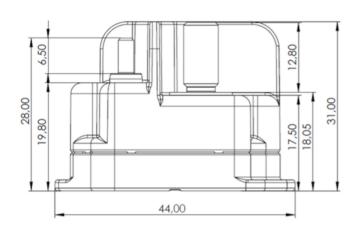
56.00 Gr

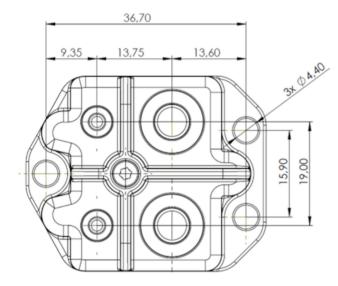
### **Mechanical Dimensions**

Weight of the unit

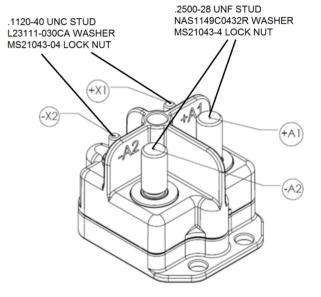
Weight of the unit including required installation materials (w/o wiring)

All dimensions [mm]





# 



## **Configuration / Ordering Data**

**Part Number** 2110898-75

**Type** SSLS, 75A

Description 28V/75A Solid-State Load Switch