

# DSP16H Switchpack

**DMX512 controls 16 Intelligent-Power-High-Side-Switches for external dc supply up to 24V / 4A continuous- & 30A inrush current. For LEDs und LED-Lamps.**

The DSP16H is a 16 channel DMX512 controlled semiconductor switchboard, based on our DSP16 relay version. The DSP16H has no relays but semiconductor switches (intelligent-power-high-side-switches IRF6021) differently than the DSP16. That means, the positive pole is switched and a common ground potential can become connected to all loads.

These powerswitches has a nominal voltage and current of 24V/4A. All switches are electrically independent of each other. This makes it possible to switch 16 different voltages if necessary. Each of the 16 plug connectors has 2 terminals for + supply / passing (max. 10A) and one terminal is Vout.

For better control of the switching condition the DSP16H has a LED per channel. Next to the base functions, "one DMX channel for one relay", even further modes can be chosen by a DIP switch

The power supply is for mains voltages between 85V and 264V~. A direct voltage supply between 10V and 30V dc is also deliverable.

## Examples of modes:

- 16 ON / OFF switches, each power switch corresponds to one DMX channel and will be switched on at a value greater than 60% and will be switched off at a value less than 40%. A hysteresis of 3% (7digits) to 2% (4 digits) is available, too.
- 16 push-buttons, every power switch is switched on for 1 second . Hysteresis same as 1)  
The modes 1) or 2) can be selected for mutual locking (channel 1-2, 3-4, ...). (Open / close of motorized blinds)
- Control of color changers, one DMX channel controlling 4 switches. All 4 switches are switched individually, subsequently and depending on the DMX value. Switch 1 will switch on at a value > 20 %, at > 40 %, switch 1 will be switched off and switch 2 takes over. Corresponding at the values 60% and 80%. A value less than 20% turns all switches off.
- Motorized curtain Close,(Stop),Open, 3 switches



controlled by one DMX channel. "Single fader control"

5. as 4) but Open / Close single impulse

Furthermore, the operating mode in case of DMX failure can be determined: hold the last value or black all.

The DMX start address [001 - 512] is set in a decimal mode via the rotary switches. Other addresses can activate the test mode or mute the DSP16H.

Two further LEDs (power on & DMX signal) indicate the operation status of the DSP16H.

The ac power supply and the DMX input also are equipped with plug connectors. .

A DMX512 termination is available, too.

## Features:

- external rotary- & push button codeswitches
- free for functions and interfaces specified by customer (e.g. MIDI, ASCII, ...)
- DIN-rail mounting option - SNAP

## Technical data:

Supplyvoltage:	85 -264V 47-65Hz
Interface:	DMX512-1990, optical isolated
Dimensions:	160 x 100 x 55 mm
Weight:	280g