SwitchDAC6: directions for use

(until serial number SWD100 and from SWD200)

Theater techn*i*sch lab

First read these directions, completely, before you get started

Connection switchDAC6

Analogue output

Analogue output 1 t/m 6 are connected to the clamp terminal *J1*: check the white overprint at the printed circuit board: *1, 2, 3, 4, 5, 6.*

Default setting: voltage control: 0 tot 10[V]. Sil-8 4x**220** [Ohm] is placed into the socket of resistor network R3 and R4. If you want current control: 0 tot 370[mA], than you have to replace resistor network R3 and R4 and you must put sil-8 4x**27** [kOhm] in its place.

The first six DMX channels control analogue out 1 up until 6.

You can adjust the analogue output with the trim potentiometer R5. Default setting: 100% control = 10,1[V].

Relays

The relays are connected to the clamp terminal *J8*, check the white overprint at the printed circuit board: *Relay1 Relay2 Relay3.* These contacts are potential free.

By jumper setting (see below) you can set each relay to share a DMX channel with an analogue output. These are the first three DMX channels. If you set 'no channel sharing' the 7th, 8th and 9th DMX-channel controls the relays.

Specification relays: contact normally open

Max. continuous current / max. switching current	6 / 10 A
Nominal voltage / max. switching voltage	250 / 400 V~
Max. switching power AC1 (ohmic resistance load)	1.500 VA
Max. switching power AC15 (inductive load: p.e. solenoid)	300 VA
Max. switching current DC1: (ohmic resistance load) 30 / 110 / 220 V	6 / 0,2 / 0,12 A

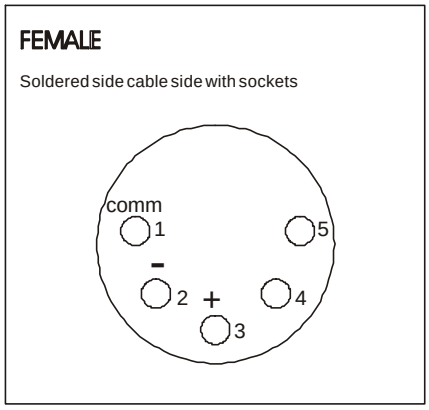
Power supply

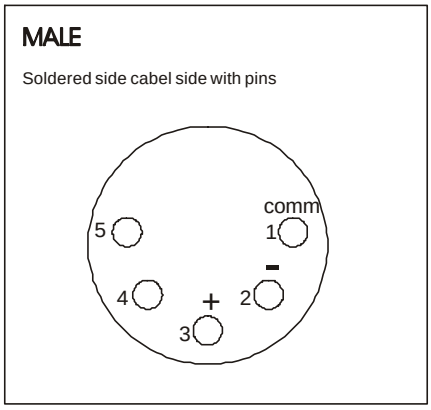
You can supply the switchDAC6 in two ways. The jumper setting determines it (see below).

1. 230[V] alternating current voltage at clamp terminator J4, check white overprint at printed circuit board *E* (=earth) *N* (=null) *P* (=phase)
2. 12 [V] direct current at two contacts of clamp terminator J1, check white overprint at printed circuit board: *12V COM* (=common). Current is 200[mA].

DMX connection

The switchDAC6 has two XLR-connectors for the DMX connection. The female connector is DMX-in and the male connector is DMX through (goes through to another DMX-equipment). The DMX plug at your cable must be connected as follows:



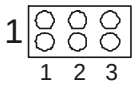


Operation of switchDAC6

To set the DMX start address
By pushing the switch at the right you raise the DMX-address; with the switch at the left you reduce the address. At the moment you make a modification a dot starts blinking at the display. The new DMX start address is saved automatically after 6 seconds. The blinking dot disappears at that moment.

Jumper setting

J1 open: Powered with 12[V]
J1 closed: Powered with 230[V] (default)



J2 open: on lost of signal: DMX is hold (default)
J2 closed: on lost of signal: DMX is not hold

J3 open: analogue out and each relay share a DMX channel (default)
J3 closed: no DMX channel sharing

Dimensions housing

The drawing below gives you the measurements of the housing