Operating Manual
SLC 100

Protocolconverter
DMX512 ➔ PALS[1]

Stage Line
electronic
D & G development ®
Internet: http://www.stageline.de

---

[1] Precision-Automatical-Lighting-System by Strand Lighting

SLC100 (V1.2)

The SLC100 is a Protocol converter from DMX512 to Strand Lighting **PALS**[1] (MRL Protocol) using direct coordinates for positioning.

The DMX512 INPUT and THRU connectors as well as the power cord one will find on the rear panel.
At the front side there is the opto-isolated symmetrical PALS output, the code switches for the DMX Start address and three indicator LED's for Power ON, DMX IN and PALS transmit.

On reason of the qualities of the PALS protocol the SLC100 transmits only data to the PALS output when DMX data changes. Only during this time the PALS TX LED lit.

The SLC100 is able to drive a maximum of 85 PALS units. This results from the number of the DMX channels divided by the 6 channels a PALS unit needs to be controlled.

With Version 1.2 the SLC100 is able to address colour changers at DMX addresses succeeding one another without jumps. To do so, close the Jumper J3. Then there are 30 DMX channels beginning with code switch address nnn+1 to nnn+31 for Colour changers followed by 80 - 6byte blocks for PALS Lanterns.

Attention, the first byte, addressed by the code switches, takes effect to all units. A value greater than 60% mutes all units until the value goes less then 40%.

Byte 1 = (value >60%,) - Stop all units
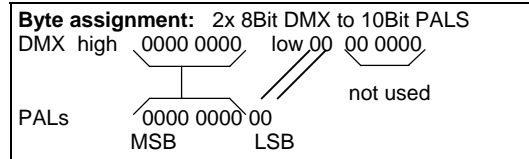   (value <40%) unlock all units
Byte 2 + 3 = PAN / 0..999 / 2 = high, 3 = low
Byte 4 + 5 = TILT / 0..360 / 4 = high, 5 = low

---

[1] Precision-Automatical-Lighting-System by Strand Lighting

Byte 6 = IRIS / 0..100
Byte 7 = COLOR / 0..100
etc. same 6 channels PAN-TILT-IRIS-COLOR

Byte assignment: 2x 8Bit DMX to 10Bit PALS
DMX high   0000 0000   low 00 00 0000

                                                    not used

PALs   0000 0000 00
              MSB   LSB

The interfaces are full-opto-isolated and using standard interface- receiving an transmitting circuits.

The pin out of the PALS output:
       5pol XLR (1=GND, 2= - Data, 3= + Data)
       3pol XLR (1=GND, 2= + Data, 3= - Data) !

In the case there is a fuse T160mA, type TR5.

Before opening disconnect mains !

technical data: AC 230V, 2.5 Watt
                                                  DMX 512, 1990
                                                  MRL   7/89
                                                  Weight: 700g