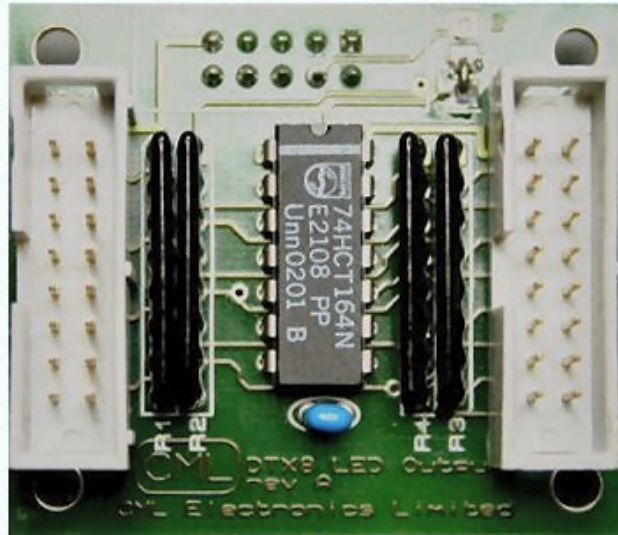


Sig-naTrak[®]

Model railway electronics by GFB Designs

DTX8

LED Driver



User Manual

Includes documentation for

DTX8A - LED Driver for DAC10/DAC20

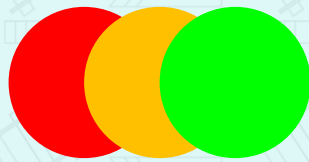
DTX8B - LED Driver for SIGM20

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Model railway electronics by GFB Designs

IMPORTANT NOTICE

CHANGE OF OWNERSHIP AND TRADING NAME

Please note that following the purchase of CML Electronics by GFB Designs, some of the product manuals may still refer to “CML Electronics Limited”.

*This should now be read as “**Sig-naTrak[®] by GFB Designs**”.*

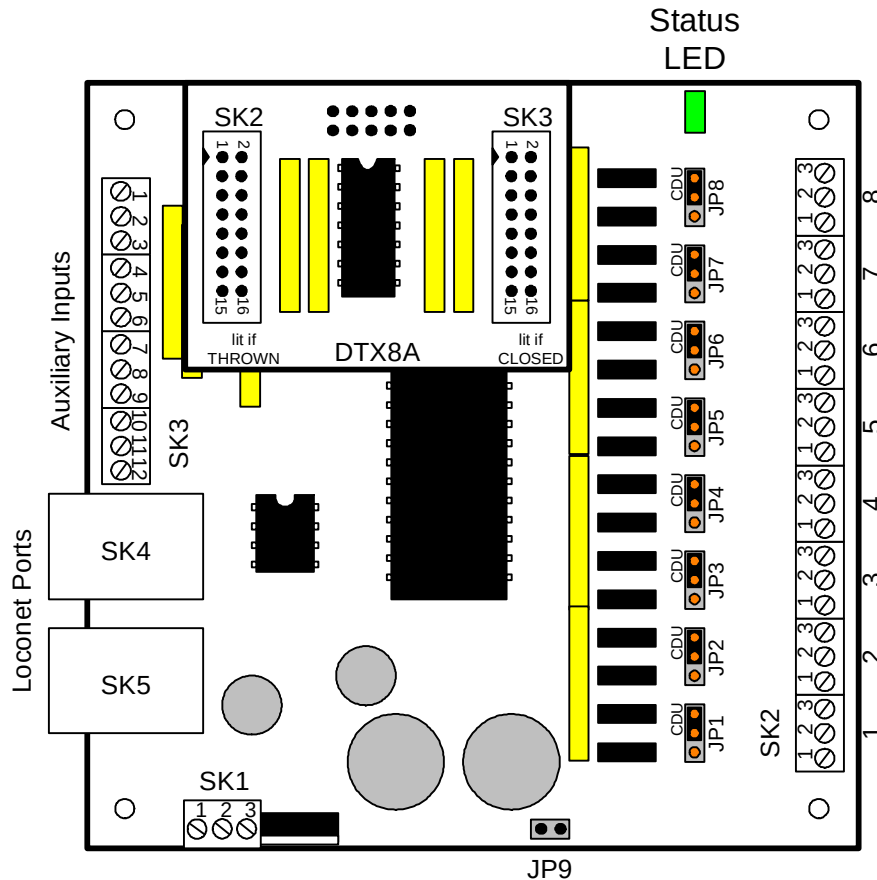
Contact details listed in this manual are also incorrect and the details at the bottom of this page should take precedence over any found in this manual for CML Electronics.

This includes our website which is now
www.signatrak.co.uk

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DTX8A LED Driver for DAC10



The DTX8A plugs onto the DAC10 board connector SK6 as shown. It should be OVER the DAC10 board – not away from it.

If its wires don't stabilise it, it may be held in position using a small blob of "blu tack" or similar between the DTX8 and the DAC10's processor.

LED connections

These are made via 2 banks of ribbon cable connectors. Eight LEDs connect to SK2, and are lit if THROWN. Eight further LEDs connect to SK3, and are lit if CLOSED. Connections are described in the table below – **please note they are not the same!**

Pin	Function	Pin	Function
1	LED 1 cathode	2	LED 1 anode
3	LED 2 cathode	4	LED 2 anode
5	LED 3 cathode	6	LED 3 anode
7	LED 4 cathode	8	LED 4 anode
9	LED 5 cathode	10	LED 5 anode
11	LED 6 cathode	12	LED 6 anode
13	LED 7 cathode	14	LED 7 anode
15	LED 8 cathode	16	LED 8 anode

SK2 LED Connections

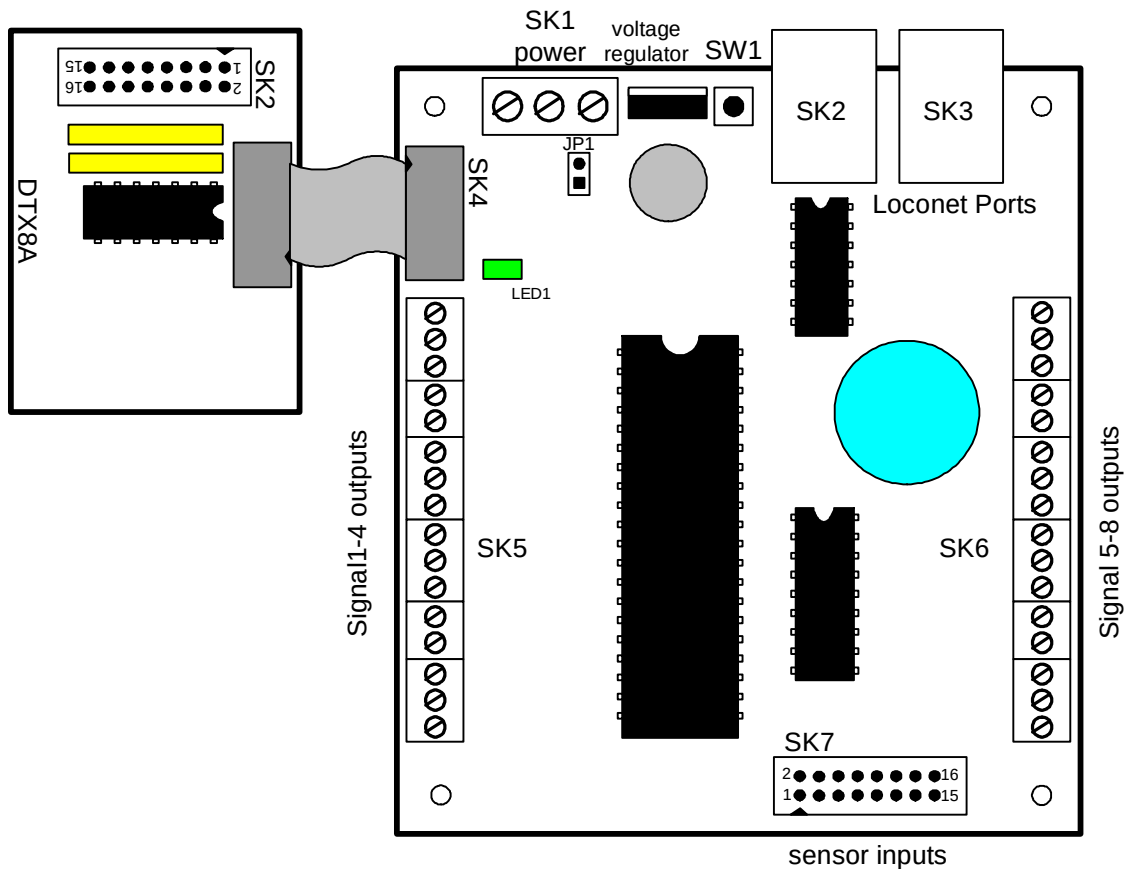
Pin	Function	Pin	Function
1	LED 1 anode	2	LED 1 cathode
3	LED 2 anode	4	LED 2 cathode
5	LED 3 anode	6	LED 3 cathode
7	LED 4 anode	8	LED 4 cathode
9	LED 5 anode	10	LED 5 cathode
11	LED 6 anode	12	LED 6 cathode
13	LED 7 anode	14	LED 7 cathode
15	LED 8 anode	16	LED 8 cathode

SK3 LED Connections

The LED "Anode" is the terminal which is positive when the LED is lit. The "Cathode" is the pin that is connected to the negative supply. A small 9v battery can be used to determine this. Generally the cathode can be identified because it has an "anvil" like structure inside the LED. Usually – but sadly not universally - the anode will have a longer lead than the cathode.



DTX8A LED Driver for SIGM20



LED connections

Pin	Function	Pin	Function
1	Ground	2	signal 9 green
3	Ground	4	signal 9 amber
5	Ground	6	signal 9 red
7	Ground	8	signal 9 aux
9	Ground	10	signal 10 green
11	Ground	12	signal 10 amber
13	Ground	14	signal 10 red
15	Ground	16	signal 10 aux

Connections to the signal's LEDs are made via the ribbon cable connector. Eight LEDs connect to SK2 as shown. Connections are made exactly as for the "normal" signals driven by the SIGM20. For common cathode signals the "ground" connections on SK2 can be used; for "common anode" signals the +5v terminals on the SIGM20 must be used.

SK2 LED Connections