XTBA NETWORK INPUT MODULE FTP

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XTBA DMX Network Input Modules FTP provide a simple and reliable method of multiple DMX inputs to a single DMX line. They are simple to install and use.

Mounting into the back box
When mounting the Network Modules into the MK back box ensure that the earth screw terminal does not interfere with the modules mounting. On Input Modules the earth terminal should be top right. The room inside the back box is tight, sorry about this as it might make wiring up the system tricky, but hopefully once installed you should not need to open the box again. When screwing the module plate onto the back box ensure there are no trapped cables as a shorted cable to case work will keep you 'amused' for hours tracking down the fault.

Power supply requirements
Each Network Module requires a DC voltage supply between 9 to 15 volts. Each module is locally regulated via the plastic tab voltage regulator - mounted to frame. Provision is also made for input reverse voltage protection by the use of a diode in the power supply feed to the 7805.

Operation
The incoming data from the front panel XLR is fed into a receiver buffer and out to the rear connector via a further buffer. On data reception the Input Module senses the data and will set the flag line low on the output connector. The flag line controls all other modules and once data is detected on one module all other modules are locked out and their data buffers tristate (e.g. have no effect on the line) even if data is present on the input XLR. In this way the input modules will prevent more than one DMX source being on the line at any time.

Additional line 6
Unlike Network Output Modules and Standard Input Modules that use a five wire system the FTP modules require and additional sixth cable for the flag line.

Earth and Earth Reference
Neither the data input or the data output are referenced to the case metal work. The input data Pin 1 (Screen/Common) is referenced to the PSU common. The output data Pin 1 is floating with reference to the input as it is isolated. The back box should be earthed as this supplies RF suppression to the unit and RF suppression for the DMX data.

Connections: Orange 6 Pin Klippon Connector

PIN 1(next to C8 capacitor)   DATA SCREEN
PIN 2   POWER SUPPLY COMMON
PIN 3   DMX DATA MINUS
PIN 4   DMX DATA PLUS
PIN 5   FLAG LINE
PIN 6   PLUS 9-15 VOLTS IN

DISPLAYS

The led on the Network Input Module displays in the following way.

RED   MODULE AVAILABLE
GREEN   MODULE IN USE
NOT LIT   MODULE NOT AVAILABLE

Technical Specifications - fitted into MK back box
Dimensions   85 x 85 x 45mm
Power   9 to 15V DC
Data   DMX512 1986/1990
Pin Configuration   Pin 1 Common, Pin 2 minus data, Pin 3 plus data.
                    Pins 4 and 5 are not connected

General Information

This product may only be used for controlling dimmers and moving lights. It must not be used in DMX512 applications for stage machinery or pyrotechnics. Using the product out of these specifications will remove all responsibility from the supplier.