

DMX512 DIN-RAIL Mounted Interface

preliminary technical data sheet January 10, 2001

specifications are subject to change



The DMX512 DIN-RAIL Mounted Interface is an interface product that receives DMX512 lighting control protocol and generates various signals to interface with other show control elements. The interface is currently available with several common outputs including 0-10V analog, dry contact relay closures, and open collector optical coupler output. Other interfaces such as RS-232 may be manufactured on a custom basis.

If you would like assistance in your application, please give us a call. We like to talk with our customers.

SPECIFICATIONS: All specifications meet or exceed DMX512 requirements

Input circuit:	EIA-485 receiver with series self resetting fuses (PTC) and transient absorbing diodes.
Input protection:	Not damaged by continuous 120VAC line cross or up to 5KV transients.
Input isolation:	600 volt DC/DC converter, 2500 volt optical coupler.
Input termination:	120 ohm termination circuit may be switched in or out via external jumper
Input signal:	0.2 volts minimum, 12 volts maximum
Output circuits:	
0-10V analog:	LM324 op amp w/ series 1N4004 diode. 15mA max. short circuit protected.
0-10V high current:	2N3904 emitter follower. 150 mA max. <u>not</u> short circuit protected!
Dry contact relay:	Aromat JQ series high capacity type. 5 amps 30VDC, 10 amps 125VAC
Optical coupler:	H11A1 Max. output current: 5mA. Max. output voltage: 30VDC
Connector:	Phoenix Contact MSTB series 12 position. Supplied male header: Phoenix part number MSTBA2,5/12-G-5,08 Mating female connector (optional): Phoenix order number 1757116
Connector pin outs:	1 - DMX512 common 2 - DMX512 data - 3 - DMX512 data + 4/5 - Jumper together to terminate DMX512 input with 120 ohms 6 - 0-10V analog out 7 - common DC supply (15 - 24 VDC) 8 - positive DC supply (15 - 24 VDC) 9/10 dry contact relay 11 - optical coupler's negative pin (NPN emitter) 12 - optical coupler's positive pin (NPN collector)
Power input:	15 - 24 volts DC, 0.5 amps plus connected load
Color:	Phoenix Contact green
Size and weight:	3 1/4" wide, 3 3/4" high, 1" deep, 4 tons

MANUFACTURER MEMBER

ESTA



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