

DMX512 DIN-rail mounted opto-isolator

model: DINTAP



The *DINTAP* is a DIN-rail mounted DMX512 optical isolator. The output is electrically isolated from the input by a 750 volt DC to DC converter and a 2500 volt optical isolator. The *DINTAP* allows the DMX signal to be split without the possibility of reflections from one signal path interfering with the signal to a device on a different path. By isolating the output, electrical noise and hazardous voltages on the output are prevented from affecting (or damaging) devices on the input.

Other DIN-rail mounted interfaces are available with a single dry contact relay closure or open collector optical coupler. Interfaces such as 0-10V analog and RS-232 may be manufactured on a custom basis.

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 15KV transients.
Input isolation:	750 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 circuit:	EIA-485 driver with self resetting fuses and transient absorbing diodes.
Output protections:	Not damaged by continuous 120VAC line cross or up to 15KV transients.
Connector:	Phoenix Contact UEGM-MSTB series 12 position. Supplied male header: Phoenix part number UEGM-MSTB A2,5/12-G-5,08 Supplied mating female connector: Phoenix order number 1757116
Wire size:	24-14 AWG
Connector pin outs:	1 - DMX512 common (tied to pin 7) 2 - DMX512 data - 3 - DMX512 data + 4/5 - Jumper together to terminate DMX512 input with 120 ohms 6 - no connection 7 - common DC supply (12 - 24 VDC) (tied to pin 1) 8 - positive DC supply (12 - 24 VDC) 9 - no connection 10 - isolated DMX512 tap common 11 - isolated DMX512 tap data- 12 - isolated DMX512 tap data+
Power input:	12 to 24 Volts DC, 0.3 Amps
Color:	Phoenix Contact green
DIN-rail:	15 mm wide top-hat rail (EN 50045, BS 6273) 33 mm G-type rail (EN 50035, BS 5825). 35 mm wide top-hat rail (EN 50022, BS 5584)
Size:	1" (25 mm) wide, 3.125" (79 mm) high, 3.5" (90.5 mm) deep