

| PART No. | DESCRIPTION | SPECIFICATION |
|--|---|--|
| DMX-1005 24-Relay DMX512 Interface | <ul style="list-style-type: none"> The DMX-1005 Interface provides a means to control low voltage lighting control relays using Entertainment Industry Standard DMX512 protocol. The DMX-1005 Interface has 24 outputs that switch Douglas relays. Standard Douglas relay switches and relay scanners can be used in conjunction with the DMX-1005 Interface. The DMX-1005 Interface supports ANSI E1.20 Remote Device Management over the DMX512 signal line which allows status monitoring. Terminal blocks are plug-in. | <p>Inputs</p> <ul style="list-style-type: none"> DMX512/1990 or DMX512-A or DMX512/RDM. DMX input can be assigned to control the 24 relay outputs individually starting from a base address, or by soft-patching each relay to a discrete DMX channel. All 512 DMX channel addresses are supported. One dry contact input, user-assignable to any or all of the 24 relay outputs. <p>Outputs</p> <ul style="list-style-type: none"> 24 Douglas relay outputs. One form C (SPDT) contact output that operates when a DMX signal is present. Outputs send a switching signal when DMX channel levels pass up or down through the pre-set threshold. Outputs can be set to fire in sequence or in simultaneous blocks of eight relays. Relay outputs are isolated from each other. The pulse from a local switch connected to a relay on one output will not affect relays connected to other outputs. <p>Remote Device Management (RDM)</p> <ul style="list-style-type: none"> Responds to RDM commands and queries from compatible DMX control systems. Card and relay discovery. Relay status monitoring. Relay cycle logging. DMX error detection. All user configuration options are supported in RDM. <p>Isolation</p> <ul style="list-style-type: none"> DMX input is optically isolated from relay control circuitry. <p>Power</p> <ul style="list-style-type: none"> 24VAC/150ma. Class 2 low voltage device. Power rating does not include power used to switch relays. <p>Environment</p> <ul style="list-style-type: none"> Stationary, non-vibrating, non-corrosive atmosphere & non-condensing humidity. Ambient operating temp: -15° F to +140° F (-25° C to +60° C). |

Relay Output Connections

24 output connections (12 per side) for Douglas 2-wire relays. One output relay per terminal. Douglas 2-wire switches can be connected in parallel to relays for override.

Indicator LEDs

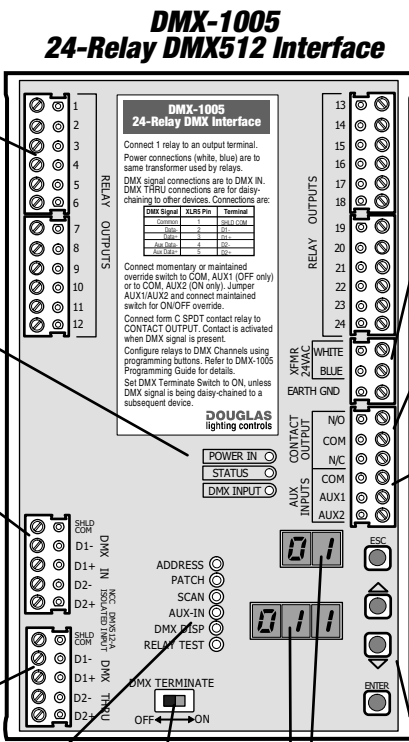
Power In LED is ON when unit is receiving power. Status LED not used. DMX Input LED is ON when unit is receiving DMX data signal.

DMX Input Connections

Connections for cable shield or common (SHLD COM) and Data- and Data+ (D1-, D1+) from DMX control console, controller or opto-splitter. Connections for auxiliary Data signal provided (D2-, D2+).

DMX Daisy-Chain Connections

Connections for daisy-chaining DMX inputs to other interfaces or devices.



DMX Termination Switch

Set to ON if DMX signal is not daisy chained. If DMX signal is daisy chained, set to OFF unless DMX-1005 is the last device in the daisy chain.

Programming/Testing Displays (2)

2-digit display shows relay number selected during programming or testing. 3-digit display shows DMX channel number selected during programming or testing.

Power Terminals

Connect to 24VAC Transformer in panel (ground optional).

Auxiliary Output Terminals (3)

For connecting devices that are to be enabled or disabled whenever DMX signal is present.

Connections are from an internal form C contact output which is activated by the DMX signal.

Auxiliary Input Terminals (3)

For connecting momentary or maintained switches or contacts to override output relays.

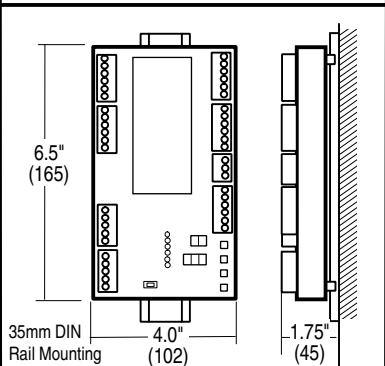
Connecting to AUX1 turns relays ON and to AUX2 turns relays OFF.

For maintained contacts, AUX1 and AUX2 can be jumpered so relays turn ON when contact closes and OFF when contact opens.

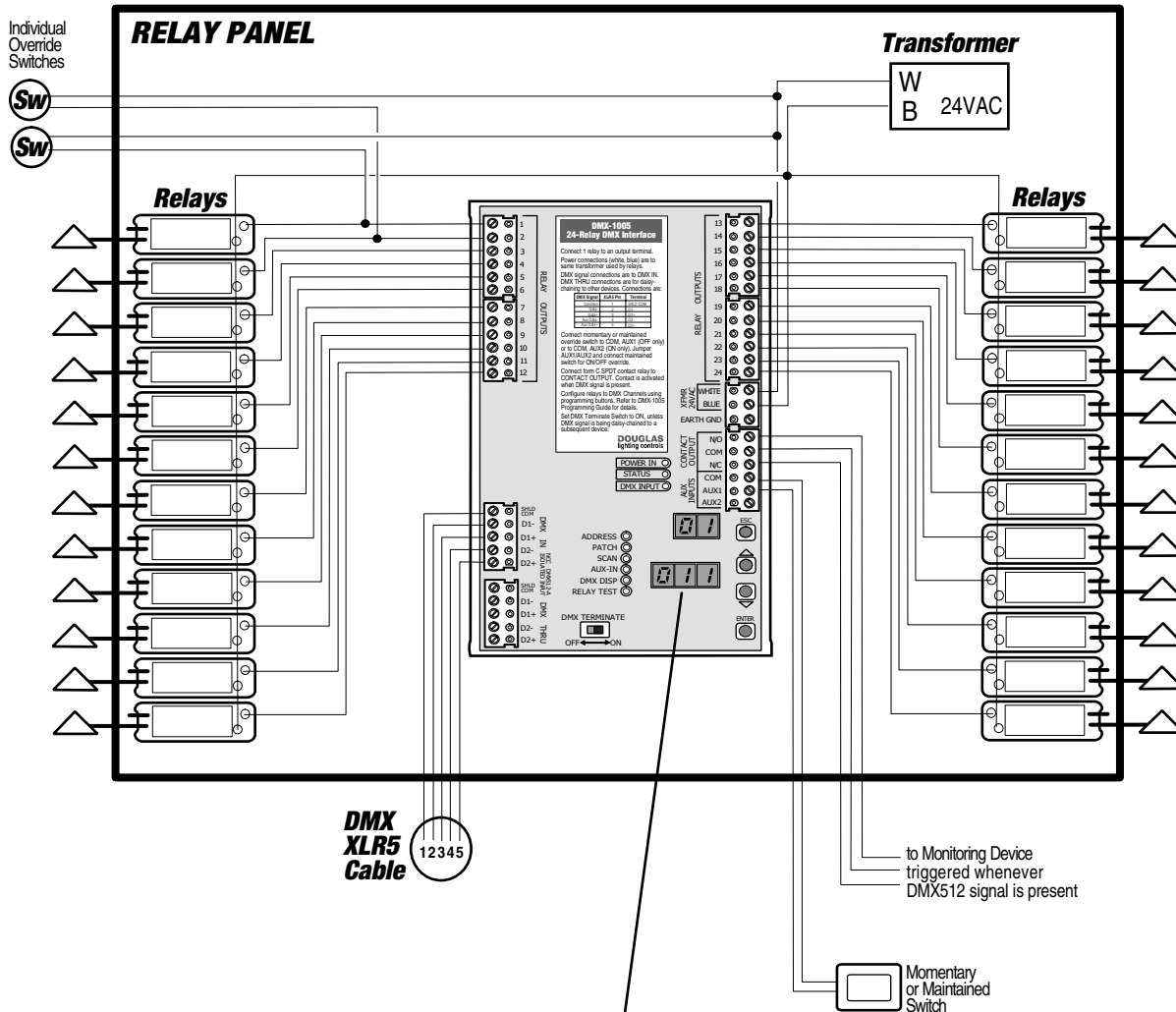
Programming Buttons (4)

Press for selecting a program and for saving program data:
 ESC - Leave program mode.
 ▲ - Scroll up displayed program selections.
 ▼ - Scroll down displayed program selections.
 Enter - Enter the program mode. Save selected values.

DIMENSIONS & MOUNTING



CONNECTIONS



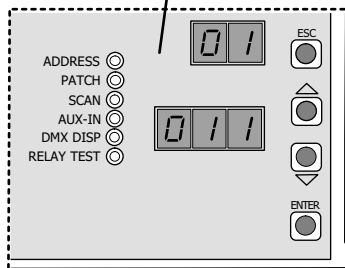
DMX-1005 Programming

The general procedure is to select a program by using the scroll (▲ or ▼) Programming Buttons. A program is selected when its Program Indicator LED is on. Once in the program, use the Programming Buttons to select the desired values in the Programming Displays. Generally, values for relays are shown in the upper display and values for DMX channels are shown in the lower display. Once selections are made, press the ENTER Button to save.

The following describe each of the programs (starting with the top LED)

Setting DMX Start Address (ADDRESS)

For most applications, the start address is the DMX channel the first relay responds to, with the following relays responding to the following DMX channels in sequence of one. This program sets the start address.



DMX Soft Patching (PATCH)

Soft patching allows relays to be assigned to non-sequential DMX channels and/or for multiple relays to be assigned the same DMX channel. An individual relay, however, cannot be assigned to more than one DMX channel. This program assigns relays to specified DMX addresses.

Setting Relay Scan (SCAN)

The default relay scan number, which is the number of relays that can be activated at any one instant, is 1. This program sets, or resets, the relay scan number (maximum of 8).

Assigning Relays to Auxiliary Input (AUX IN)

This program assigns relays to the auxiliary input, overriding DMX control of those relays, when an auxiliary input is used.

Monitor DMX Channel Levels (DMX DISP)

This program displays the current level, in hexadecimal format, of a selected DMX channel.

Test and Monitor Relays (RELAYS)

This program displays the state (ON, OFF or not detected) of a selected relay. Also, selected relay can be triggered by pressing ENTER.