

## DMX 8-Channel Relay Board

Version 1.0 -2009  
WD1563

### Overview

The DMX Relay board provides up to 8- programmable Digital Outputs channels when connected to a DMX controlled network. The board Base Address may be set between 1 and 505. Board can operate Mechanical or Solid State Relays  
Board Requires 12 VDC @ 0.5 Amp Supply.



### Setup

#### Connections

The board requires a 12V DC supply at 0.5 Amps  
Connect the relay board to the DMX network using 5-pin XLR connectors. If the DMX Relay board is the last item on the network, place a jumper over the pins marked TRM. This will improve the performance of the DMX network, acting as a DMX Network Termination.

#### No Relay

Attach Mechanical or Solid State Relays to relay section.

**NOTE:** jumper next to the input power socket should be set to the V position when using mechanical relays and set to the 5 position when using Solid State relays.

#### Recommended Solid State Relays

Crydom - CMX60D5 ( 0-60 V DC @ 5 Amp)

Crydom - CMX60D10 ( 0-60 V DC @ 10 Amp)

Crydom - CX240D5 . (0-240 V AC @ 5 Amp) - USE CAUTION AC VOLTAGE

**Recommended Standard Mechanical Relays** = OMI-SH-112D (30 V DC @10 Amp)

#### Settings - (See Pages on Control / Addressing)

Set the base address of Relay Output - No. 1 as follows: ( when not in byte mode - see below )

Add the value of the address DIP switches set to the **ON** position to calculate the base address.

Example: DIP switches 16 and 32 set to **ON** position, the base address is now 48, this setting is used to determine the starting address output of Relay 1, in DMX Multiple Channel Control, the next relay would be address 49 for Relay 2, and the next 50 for Relay 3, etc. Use this same process for setting the base address in Single Channel Control but Byte Output Switch 10 is set to ON and a Control Byte Value Number is added to the DMX output for control of all the 8 Relays. ( see pages on Addressing for more details on Byte - Binary addressing)

#### Control Syntax - (See Pages on Control / Addressing)

Byte Output switch (DIP Switch 10) set to **OFF**: ( Multiple DMX control channels )

The output on a particular channel will go high (ON) when the DMX transmitted value for that channel exceeds 224. ( 243= OFF, 0% and 244= ON, 100% ). Each relay 1-8 has it's own channel assigned with the base number + a relay position number added to determine the address for each relay output.

Byte Output switch (DIP Switch 10) set to **ON**: ( Single DMX control channel )

The relay outputs act as a binary representation of the data on the base address channel -example, if the base address is set to 33 and the dmx value on channel 33 is 240 (ie 11110000 in binary) then relays 5 through 8 would be energized and relays 1 through 4 off. If the value on channel 33 was 15 (00001111) then relays 1 through 4 would be on and relays 5-8 off. 1 or more relays can be grouped as a base start address and a single binary value added for each relay output control.

DMX LED- **ON** when a suitable DMX signal is being received or a flashing LED when **NO** valid DMX signal stream is being received by the 8-Ch DMX relay board.

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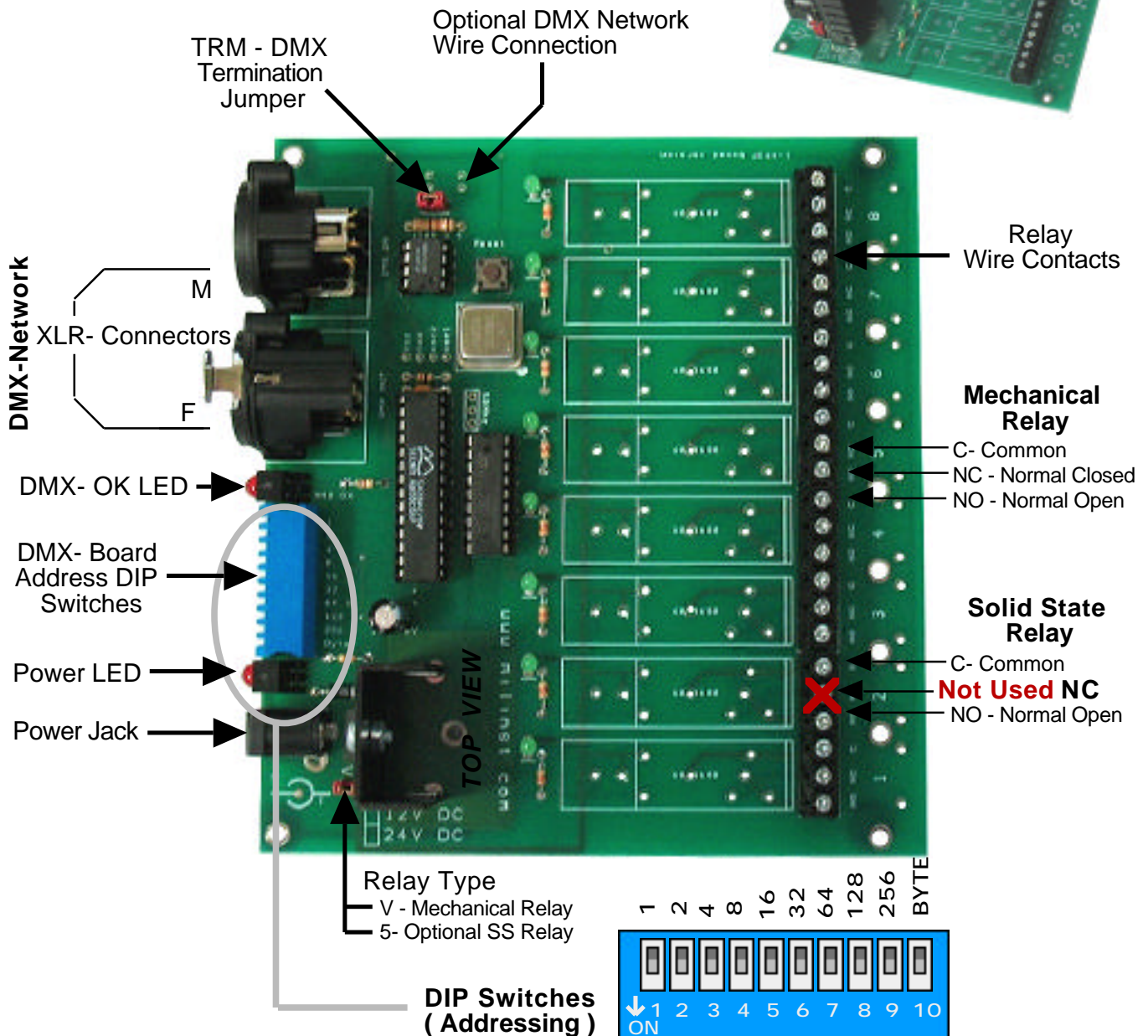
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## DMX 8-Channel Relay Board

No Relay

### Hook-up

DMX 8-Ch Relay Board  
No Relays



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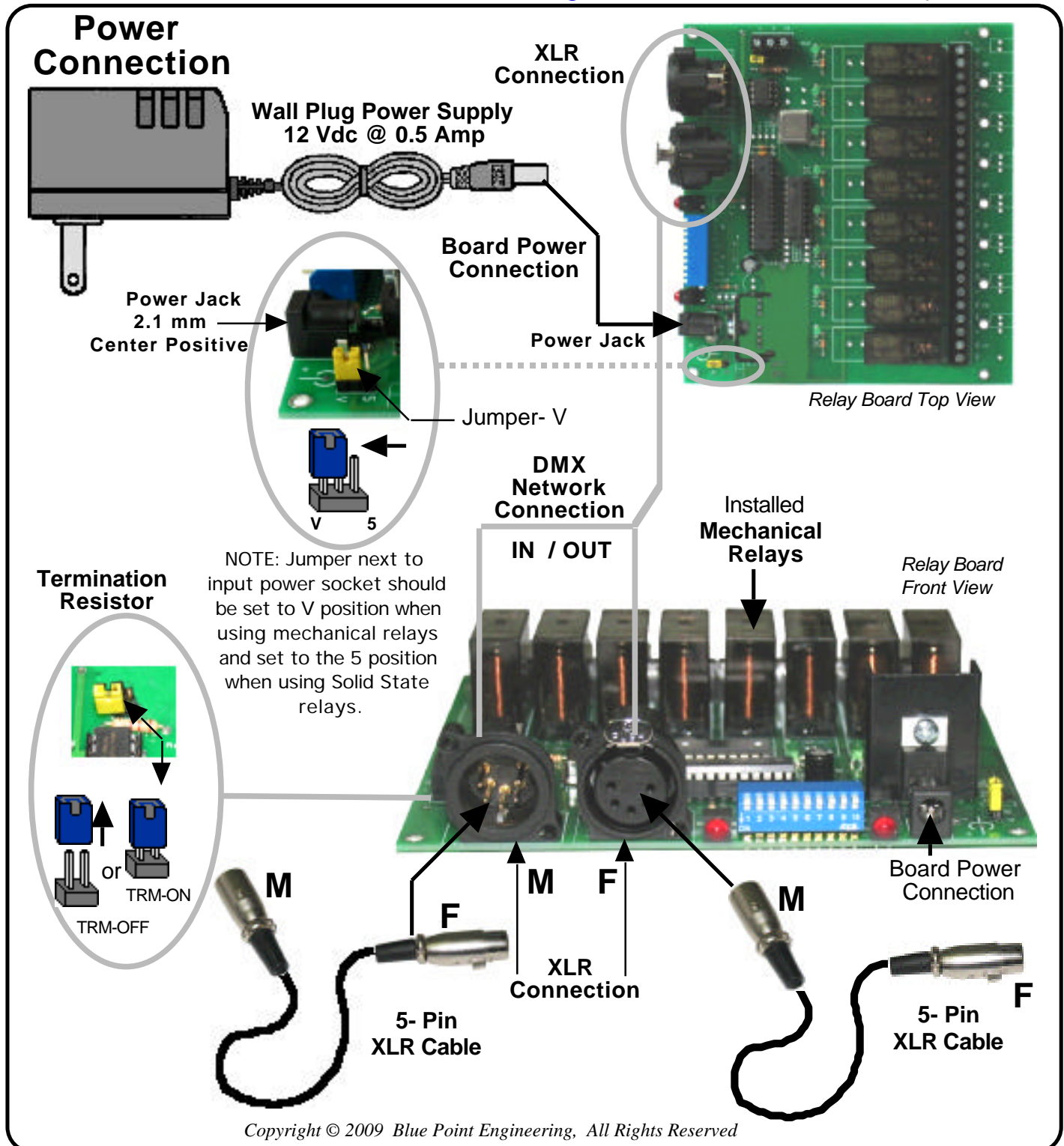
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## DMX 8-Channel Relay Board

No Relay



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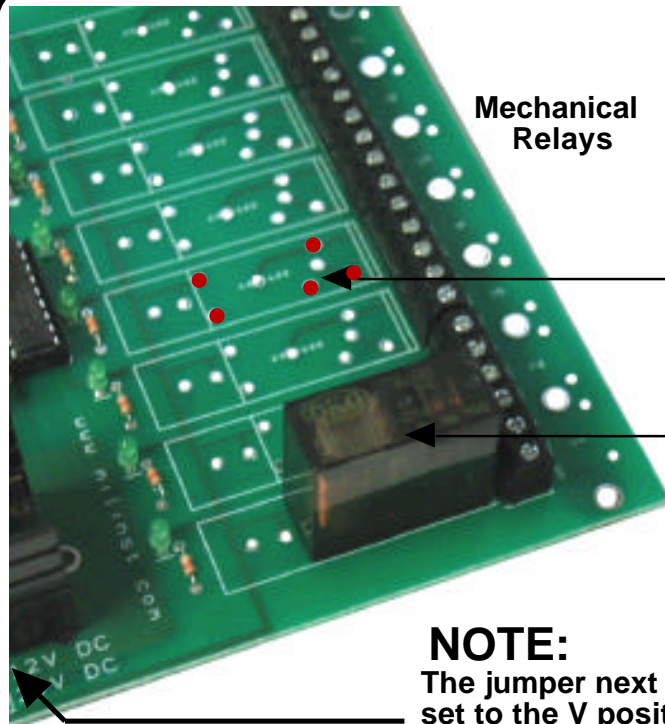
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## DMX 8-Channel Relay Board

No Relay

### Mechanical Relays



Mechanical Relays

• Mechanical Relay Connection Holes

Installed Mechanical Relay

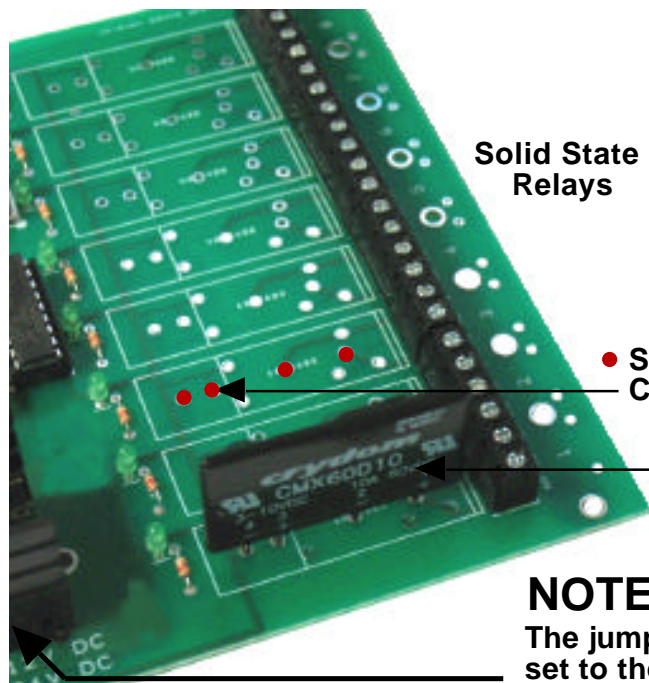
Mechanical Relays



#### NOTE:

The jumper next to the input power socket should be set to the V position when using mechanical relays,

### Solid State Relays

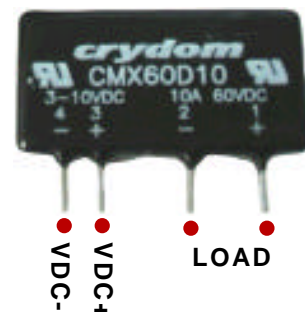


Solid State Relays

• Solid State Relay Connection Holes

Installed Solid State Relay

Solid State Relays



#### NOTE:

The jumper next to the input power socket should be set to the 5 position when using Solid State Relays

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## DMX 8-Channel Relay Board

**No Relay**

### Mechanical Relay Connection

DMX 8-Channel Relay Board

The jumper next to the input power socket should be set to the V position when using mechanical relays

Relay - ON LEDs  
(1-8) ●

3

2

1

Relay - 8

Relay - 7

Relay - 6

Relay - 5

Relay - 4

Relay - 3

Relay - 2

Relay - 1

Relay  
Connections

Relay - ON  
LEDs  
(1-8)

Mechanical  
Relays

Relay - 3

Relay - 2

Relay - 1

### Wire Connection

Wire Terminal Blocks

C- Common

NC - Normal Closed

NO - Normal Open

C- Common

NC - Normal Closed

NO - Normal Open

Relay  
Connections

Relay No. 1

Wire Terminal  
Blocks

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## DMX 8-Channel Relay Board

No Relay

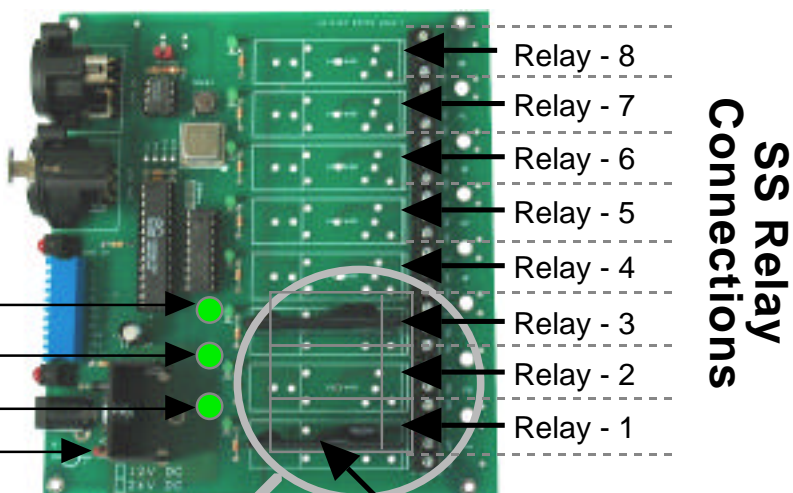
### Solid State Relay Hook-up

The jumper next to the input power socket should be set to the 5 position when using Solid State Relays

Relay - ON LEDs (1-8) ●

3  
2  
1

DMX 8-Channel Relay Board



SS Relay Connections

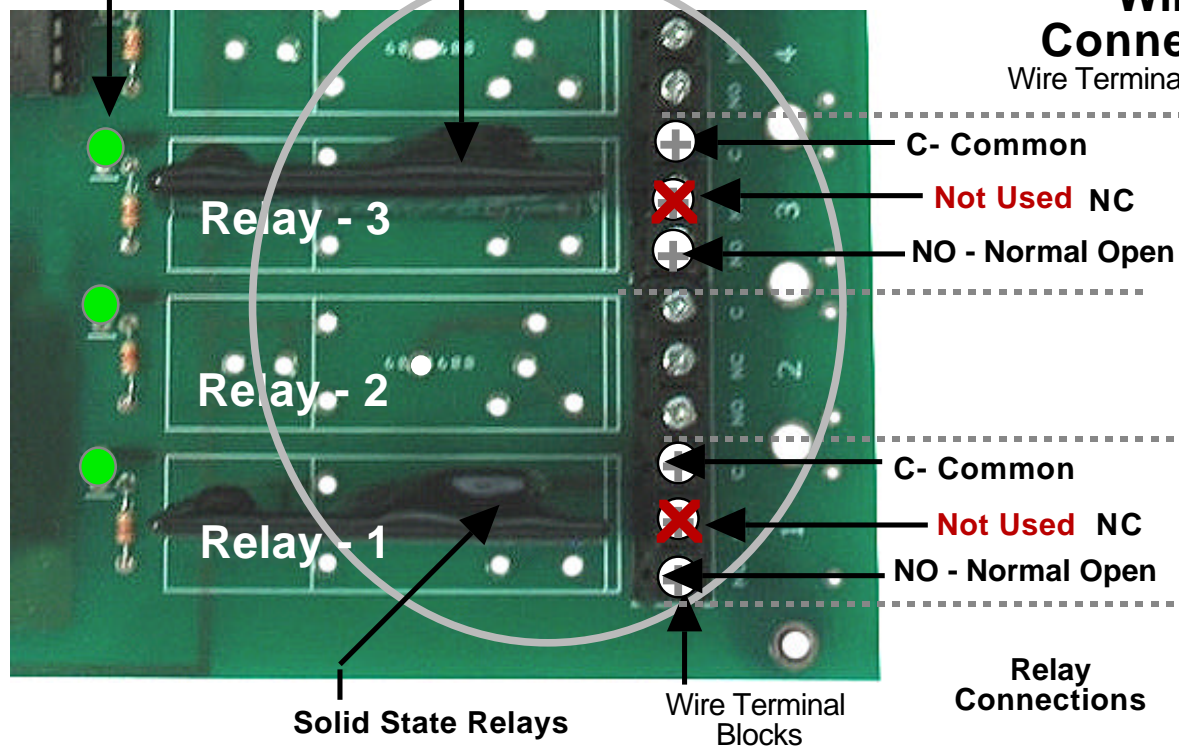
Relay - ON LEDs (1-8)

Solid State Relays

Solid State Relays

Wire Connection

Wire Terminal Blocks



Solid State Relays

Wire Terminal Blocks

Relay Connections

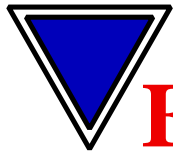
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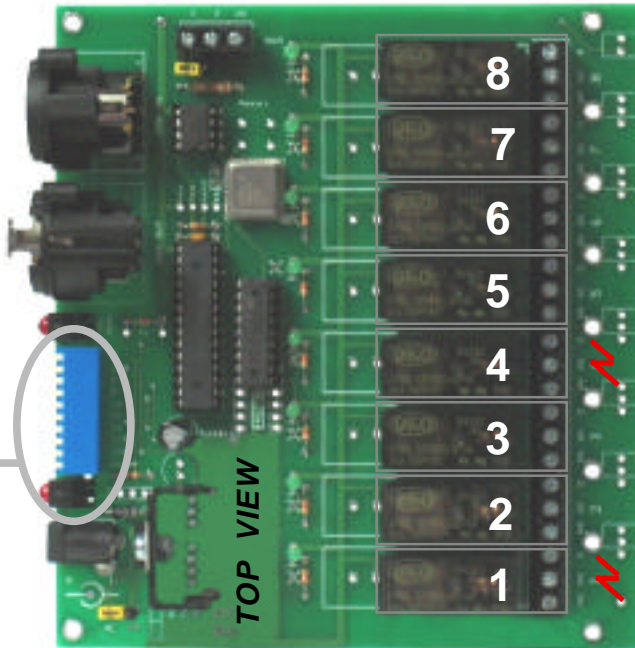
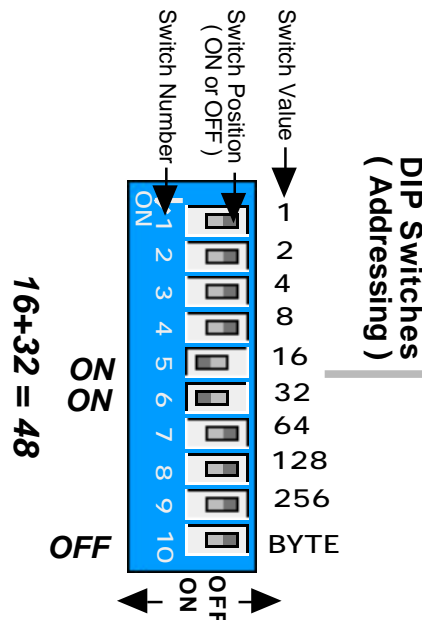




## DMX 8-Channel Relay Board

**Board Address**  
**DMX - Values**  
**Byte Mode- OFF**

**Example**



DMX Value 0-255 = 0-100%      DMX Value 244+ = 100%

**Relay-8**  
(CH=55)  
(Value= 243)  
(Relay = OFF)

Relay-7 = Ch 54

Relay-6 = Ch 53

Relay-5 = Ch 52

**Relay-4**  
(CH=51)  
(Value= 244)  
(Relay = ON)

Relay-3 = Ch 50

Relay-2 = Ch 49

**Relay-1**  
(CH=48)  
(Value= 244)  
(Relay = ON)

### Setting the base address of Relay Outputs when not in byte mode - Switch 10 set to OFF

Add the value of the address DIP switches set to the **ON** position to calculate the base address.

Example(CH): DIP switches 5 and 6 set to **ON** position, the base address is now 48, (16+32) this setting is used to determine the starting address output of Relay 1, the next relay would be address 49 for Relay 2, and the next 50 for Relay 3, 51 for Relay 4, 52 for Relay 5, etc.

### Control Syntax - (See DMX512 Chart Chart for Values)

Byte Output switch (DIP Switch 10) set to OFF: ( Multiple DMX control channels )

The output on a particular channel will go high (ON) when the DMX transmitted value for that channel exceeds 224.

**0= OFF (0%) and 244= ON (100%)**

### Example

Dip Switch 5 and 6 ON = **Base Address 48 = Relay No.1** ( Relay 1- Base Address starting at 48 )

**Byte Output** Switch 10 = OFF

Relay 1 **ON** at DMX value 244+ **RELAY - 1**

Relay 1 **OFF** at DMX value 243-

Dip Switch 5 and 6 ON = **Base Address 48 + 3 = 51 = Relay No.4** ( Relay 1- Base Address Plus next 3 Relays )

**Byte Output** Switch 10 = OFF

Relay 4 **ON** at DMX value 244+ **RELAY - 4**

Relay 4 **OFF** at DMX value 243-

Dip Switch 5 and 6 ON = **Base Address 48 + 7 = 55 = Relay No.8** ( Relay 1- Base Address Plus next 7 Relays )

**Byte Output** Switch 10 = OFF

Relay 8 **ON** at DMX value 244+ **RELAY - 8**

Relay 8 **OFF** at DMX value 243-

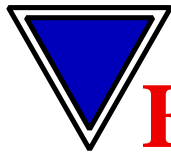
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## **DMX 512 Chart - US Standard**

### **Chart A - US Standard DMX 512**

<b>Ch - Switches</b>	<b>Ch - Switches</b>	<b>Ch - Switches</b>	<b>Ch - Switches</b>	<b>Ch - Switches</b>
1 = 1	53 = 1, 3, 5, 6	105 = 1, 4, 6, 7	157 = 1, 3, 4, 5, 8	209 = 1, 5, 7, 8
2 = 2	54 = 2, 3, 5, 6	106 = 2, 4, 6, 7	158 = 2, 3, 4, 5, 8	210 = 2, 5, 7, 8
3 = 1, 2	55 = 1, 2, 3, 5, 6	107 = 1, 2, 4, 6, 7	159 = 1, 2, 3, 4, 5, 8	211 = 1, 2, 5, 7, 8
4 = 3	56 = 4, 5, 6	108 = 3, 4, 6, 7	160 = 6, 8	212 = 3, 5, 7, 8
5 = 1, 3	57 = 1, 4, 5, 6	109 = 1, 3, 4, 6, 7	161 = 1, 6, 8	213 = 1, 3, 5, 7, 8
6 = 2, 3	58 = 2, 4, 5, 6	110 = 2, 3, 4, 6, 7	162 = 2, 6, 8	214 = 2, 3, 5, 7, 8
7 = 1, 2, 3	59 = 1, 2, 4, 5, 6	111 = 1, 2, 3, 4, 6, 7	163 = 1, 2, 6, 8	215 = 1, 2, 3, 5, 7, 8
8 = 4	60 = 3, 4, 5, 6	112 = 5, 6, 7	164 = 3, 6, 8	216 = 4, 5, 7, 8
9 = 1, 4	61 = 1, 3, 4, 5, 6	113 = 1, 5, 6, 7	165 = 1, 3, 6, 8	217 = 1, 4, 5, 7, 8
10 = 2, 4	62 = 2, 3, 4, 5, 6	114 = 2, 5, 6, 7	166 = 2, 3, 6, 8	218 = 2, 4, 5, 7, 8
11 = 1, 2, 4	63 = 1, 2, 3, 4, 5, 6	115 = 1, 2, 5, 6, 7	167 = 1, 2, 3, 6, 8	219 = 1, 2, 4, 5, 7, 8
12 = 3, 4	64 = 7	116 = 3, 5, 6, 7	168 = 4, 6, 8	220 = 3, 4, 5, 7, 8
13 = 1, 3, 4	65 = 1, 7	117 = 1, 3, 5, 6, 7	169 = 1, 4, 6, 8	221 = 1, 3, 4, 5, 7, 8
14 = 2, 3, 4	66 = 2, 7	118 = 2, 3, 5, 6, 7	170 = 2, 4, 6, 8	222 = 2, 3, 4, 5, 7, 8
15 = 1, 2, 3, 4	67 = 1, 2, 7	119 = 1, 2, 3, 5, 6, 7	171 = 1, 2, 4, 6, 8	223 = 1, 2, 3, 4, 5, 7, 8
16 = 5	68 = 3, 7	120 = 4, 5, 6, 7	172 = 3, 4, 6, 8	224 = 6, 7, 8
17 = 1, 5	69 = 1, 3, 7	121 = 1, 4, 5, 6, 7	173 = 1, 3, 4, 6, 8	225 = 1, 6, 7, 8
18 = 2, 5	70 = 2, 3, 7	122 = 2, 4, 5, 6, 7	174 = 2, 3, 4, 6, 8	226 = 2, 6, 7, 8
19 = 1, 2, 5	71 = 1, 2, 3, 7	123 = 1, 2, 4, 5, 6, 7	175 = 1, 2, 3, 4, 6, 8	227 = 1, 2, 6, 7, 8
20 = 3, 5	72 = 4, 7	124 = 3, 4, 5, 6, 7	176 = 5, 6, 8	228 = 3, 6, 7, 8
21 = 1, 3, 5	73 = 1, 4, 7	125 = 1, 3, 4, 5, 6, 7	177 = 1, 5, 6, 8	229 = 1, 3, 6, 7, 8
22 = 2, 3, 5	74 = 2, 4, 7	126 = 2, 3, 4, 5, 6, 7	178 = 2, 5, 6, 8	230 = 2, 3, 6, 7, 8
23 = 1, 2, 3, 5	75 = 1, 2, 4, 7	127 = 1, 2, 3, 4, 5, 6, 7	179 = 1, 2, 5, 6, 8	231 = 1, 2, 3, 6, 7, 8
24 = 4, 5	76 = 3, 4, 7	128 = 8	180 = 3, 5, 6, 8	232 = 4, 6, 7, 8
25 = 1, 4, 5	77 = 1, 3, 4, 7	129 = 1, 8	181 = 1, 3, 5, 6, 8	233 = 1, 4, 6, 7, 8
26 = 2, 4, 5	78 = 2, 3, 4, 7	130 = 2, 8	182 = 2, 3, 5, 6, 8	234 = 2, 4, 6, 7, 8
27 = 1, 2, 4, 5	79 = 1, 3, 4, 7	131 = 1, 2, 8	183 = 1, 2, 3, 5, 6, 8	235 = 1, 2, 4, 6, 7, 8
28 = 3, 4, 5	80 = 5, 7	132 = 3, 8	184 = 4, 5, 6, 8	236 = 3, 4, 6, 7, 8
29 = 1, 3, 4, 5	81 = 1, 5, 7	133 = 1, 3, 8	185 = 1, 4, 5, 6, 8	237 = 1, 3, 4, 6, 7, 8
30 = 2, 3, 4, 5	82 = 2, 5, 7	134 = 2, 3, 8	186 = 2, 4, 5, 6, 8	238 = 2, 3, 4, 6, 7, 8
31 = 1, 2, 3, 4, 5	83 = 1, 2, 5, 7	135 = 1, 2, 3, 8	187 = 1, 2, 4, 5, 6, 8	239 = 1, 2, 3, 4, 6, 7, 8
32 = 6	84 = 3, 5, 7	136 = 4, 8	188 = 3, 4, 5, 6, 8	240 = 5, 6, 7, 8
33 = 1, 6	85 = 1, 3, 5, 7	137 = 1, 4, 8	189 = 1, 3, 4, 5, 6, 8	241 = 1, 5, 6, 7, 8
34 = 2, 6	86 = 2, 3, 5, 7	138 = 2, 4, 8	190 = 2, 3, 4, 5, 6, 8	242 = 2, 5, 6, 7, 8
35 = 1, 2, 6	87 = 1, 2, 3, 5, 7	139 = 1, 2, 4, 8	191 = 1, 2, 3, 4, 5, 6, 8	243 = 1, 2, 5, 6, 7, 8
36 = 3, 6	88 = 4, 5, 7	140 = 3, 4, 8	192 = 7, 8	244 = 3, 5, 6, 7, 8
37 = 1, 3, 6	89 = 1, 4, 5, 7	141 = 1, 3, 4, 8	193 = 1, 7, 8	245 = 1, 3, 5, 6, 7, 8
38 = 2, 3, 6	90 = 2, 4, 5, 7	142 = 2, 3, 4, 8	194 = 2, 7, 8	246 = 2, 3, 5, 6, 7, 8
39 = 1, 2, 3, 6	91 = 1, 2, 4, 5, 7	143 = 1, 2, 3, 4, 8	195 = 1, 2, 7, 8	247 = 1, 2, 3, 5, 6, 7, 8
40 = 4, 6	92 = 3, 4, 5, 7	144 = 5, 8	196 = 3, 7, 8	248 = 4, 5, 6, 7, 8
41 = 1, 4, 6	93 = 1, 3, 4, 5, 7	145 = 1, 5, 8	197 = 1, 3, 7, 8	249 = 1, 4, 5, 6, 7, 8
42 = 2, 4, 6	94 = 2, 3, 4, 5, 7	146 = 2, 5, 8	198 = 2, 3, 7, 8	250 = 2, 4, 5, 6, 7, 8
43 = 1, 2, 4, 6	95 = 1, 2, 3, 4, 5, 7	147 = 1, 2, 5, 8	199 = 1, 2, 3, 7, 8	251 = 1, 2, 4, 5, 6, 7, 8
44 = 3, 4, 6	96 = 6, 7	148 = 3, 5, 8	200 = 4, 7, 8	252 = 3, 4, 5, 6, 7, 8
45 = 1, 3, 4, 6	97 = 1, 6, 7	149 = 1, 3, 5, 8	201 = 1, 4, 7, 8	253 = 1, 3, 4, 5, 6, 7, 8
46 = 2, 3, 4, 6	98 = 2, 6, 7	150 = 2, 3, 5, 8	202 = 2, 4, 7, 8	254 = 2, 3, 4, 5, 6, 7, 8
47 = 1, 2, 3, 4, 6	99 = 1, 2, 6, 7	151 = 1, 2, 3, 5, 8	203 = 1, 2, 4, 7, 8	255 = 1, 2, 3, 4, 5, 6, 7, 8
48 = 5, 6	100 = 3, 6, 7	152 = 4, 5, 8	204 = 3, 4, 7, 8	256 = 9
49 = 1, 5, 6	101 = 1, 3, 6, 7	153 = 1, 4, 5, 8	205 = 1, 3, 4, 7, 8	257 = 1, 9
50 = 2, 5, 6	102 = 2, 3, 6, 7	154 = 2, 4, 5, 8	206 = 2, 3, 4, 7, 8	258 = 2, 9
51 = 1, 2, 5, 6	103 = 1, 2, 3, 6, 7	155 = 1, 2, 4, 5, 8	207 = 1, 2, 3, 4, 7, 8	259 = 1, 2, 9
52 = 3, 5, 6	104 = 4, 6, 7	156 = 3, 4, 5, 8	208 = 5, 7, 8	260 = 3, 9



**Ch - Switches**

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 262 = 2, 3, 9  
 263 = 1, 2, 3, 9  
 264 = 4, 9  
 265 = 1, 4, 9  
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 320 = 7, 9  
 321 = 1, 7, 9

**Ch - Switches**

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**Ch - Switches**

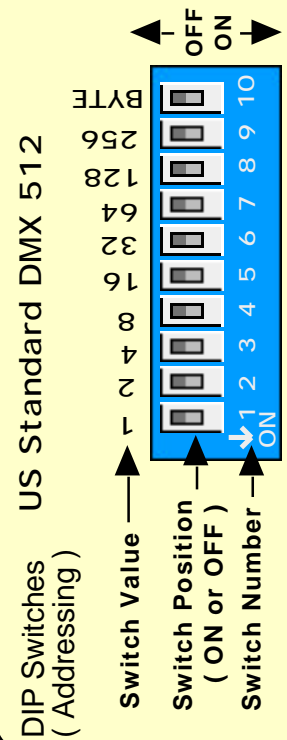
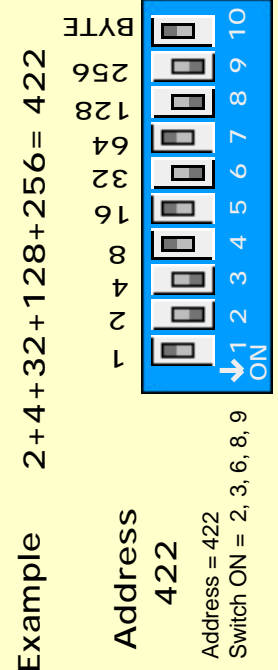
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 402 = 2, 5, 8, 9  
 403 = 1, 2, 5, 8, 9  
 404 = 3, 5, 8, 9  
 405 = 1, 3, 5, 8, 9  
 406 = 2, 3, 5, 8, 9  
 407 = 1, 2, 3, 5, 8, 9  
 408 = 4, 5, 8, 9  
 409 = 1, 4, 5, 8, 9  
 410 = 2, 4, 5, 8, 9  
 411 = 1, 2, 4, 5, 8, 9  
 412 = 3, 4, 5, 8, 9  
 413 = 1, 3, 4, 5, 8, 9  
 414 = 2, 3, 4, 5, 8, 9  
 415 = 1, 2, 3, 4, 5, 8, 9  
 416 = 6, 8, 9  
 417 = 1, 6, 8, 9  
 418 = 2, 6, 8, 9  
 419 = 1, 2, 6, 8, 9  
 420 = 3, 6, 8, 9  
 421 = 1, 3, 6, 8, 9  
 422 = 2, 3, 6, 8, 9  
 423 = 1, 2, 3, 6, 8, 9  
 424 = 4, 6, 8, 9  
 425 = 1, 4, 6, 8, 9  
 426 = 2, 4, 6, 8, 9  
 427 = 1, 2, 4, 6, 8, 9  
 428 = 3, 4, 6, 8, 9  
 429 = 1, 3, 4, 6, 8, 9  
 430 = 2, 3, 4, 6, 8, 9  
 431 = 1, 2, 3, 4, 6, 8, 9  
 432 = 5, 6, 8, 9  
 433 = 1, 5, 6, 8, 9  
 434 = 2, 5, 6, 8, 9  
 435 = 1, 2, 5, 6, 8, 9  
 436 = 3, 5, 6, 8, 9  
 437 = 1, 3, 5, 6, 8, 9  
 438 = 2, 3, 5, 6, 8, 9  
 439 = 1, 2, 3, 5, 6, 8, 9  
 440 = 4, 5, 6, 8, 9  
 441 = 1, 4, 5, 6, 8, 9  
 442 = 2, 4, 5, 6, 8, 9  
 443 = 1, 2, 4, 5, 6, 8, 9

**Ch - Switches**

444 = 3, 4, 5, 6, 8, 9  
 445 = 1, 3, 4, 5, 6, 8, 9  
 446 = 2, 3, 4, 5, 6, 8, 9  
 447 = 1, 2, 3, 4, 5, 6, 8, 9  
 448 = 7, 8, 9  
 449 = 1, 7, 8, 9  
 450 = 2, 7, 8, 9  
 451 = 1, 2, 7, 8, 9  
 452 = 3, 7, 8, 9  
 453 = 1, 3, 7, 8, 9  
 454 = 2, 3, 7, 8, 9  
 455 = 1, 2, 3, 7, 8, 9  
 456 = 4, 7, 8, 9  
 457 = 1, 4, 7, 8, 9  
 458 = 2, 4, 7, 8, 9  
 459 = 1, 2, 4, 7, 8, 9  
 460 = 3, 4, 7, 8, 9  
 461 = 1, 3, 4, 7, 8, 9  
 462 = 2, 3, 4, 7, 8, 9  
 463 = 1, 2, 3, 4, 7, 8, 9  
 464 = 5, 7, 8, 9  
 465 = 1, 5, 7, 8, 9  
 466 = 2, 5, 7, 8, 9  
 467 = 1, 2, 5, 7, 8, 9  
 468 = 3, 5, 7, 8, 9  
 469 = 1, 3, 5, 7, 8, 9  
 470 = 2, 3, 5, 7, 8, 9  
 471 = 1, 2, 3, 5, 7, 8, 9  
 472 = 4, 5, 7, 8, 9  
 473 = 1, 4, 5, 7, 8, 9  
 474 = 2, 4, 5, 7, 8, 9  
 475 = 1, 2, 4, 5, 7, 8, 9  
 476 = 3, 4, 5, 7, 8, 9  
 477 = 1, 3, 4, 5, 7, 8, 9  
 478 = 2, 3, 4, 5, 7, 8, 9  
 479 = 1, 2, 3, 4, 5, 7, 8, 9  
 480 = 6, 7, 8, 9  
 481 = 1, 6, 7, 8, 9  
 482 = 2, 6, 7, 8, 9  
 483 = 1, 2, 6, 7, 8, 9  
 484 = 3, 6, 7, 8, 9  
 485 = 1, 3, 6, 7, 8, 9  
 486 = 2, 3, 6, 7, 8, 9  
 487 = 1, 2, 3, 6, 7, 8, 9  
 488 = 4, 6, 7, 8, 9  
 489 = 1, 4, 6, 7, 8, 9  
 490 = 2, 4, 6, 7, 8, 9  
 491 = 1, 2, 4, 6, 7, 8, 9  
 492 = 3, 4, 6, 7, 8, 9  
 493 = 1, 3, 4, 6, 7, 8, 9  
 494 = 2, 3, 4, 6, 7, 8, 9  
 495 = 1, 2, 3, 4, 6, 7, 8, 9  
 496 = 5, 6, 7, 8, 9  
 497 = 1, 5, 6, 7, 8, 9  
 498 = 2, 5, 6, 7, 8, 9  
 499 = 1, 2, 5, 6, 7, 8, 9  
 500 = 3, 5, 6, 7, 8, 9  
 501 = 1, 3, 5, 6, 7, 8, 9  
 502 = 2, 3, 5, 6, 7, 8, 9  
 503 = 1, 2, 3, 5, 6, 7, 8, 9  
 504 = 4, 5, 6, 7, 8, 9

**Ch - Switches**

505 = 1, 4, 5, 6, 7, 8, 9  
 506 = 2, 4, 5, 6, 7, 8, 9  
 507 = 1, 2, 4, 5, 6, 7, 8, 9  
 508 = 3, 4, 5, 6, 7, 8, 9  
 509 = 1, 3, 4, 5, 6, 7, 8, 9  
 510 = 2, 3, 4, 5, 6, 7, 8, 9  
 511 = 1, 2, 3, 4, 5, 6, 7, 8, 9  
 512 = 0



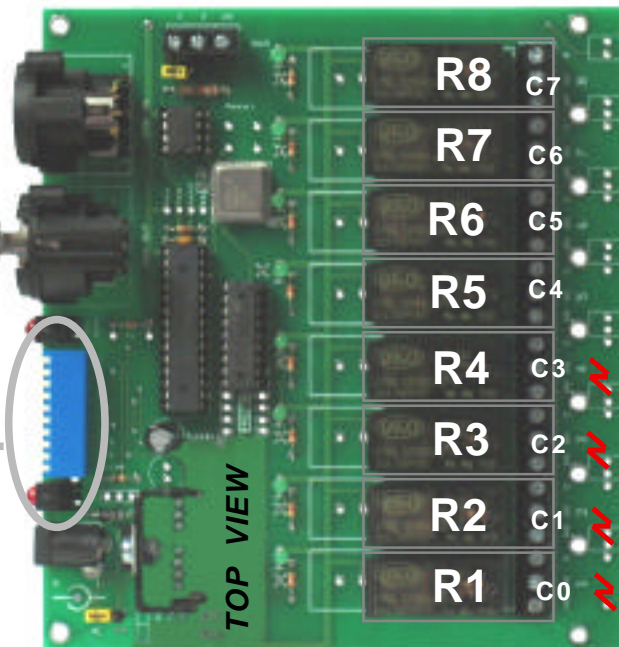
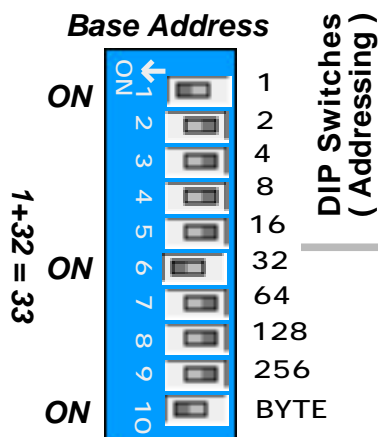
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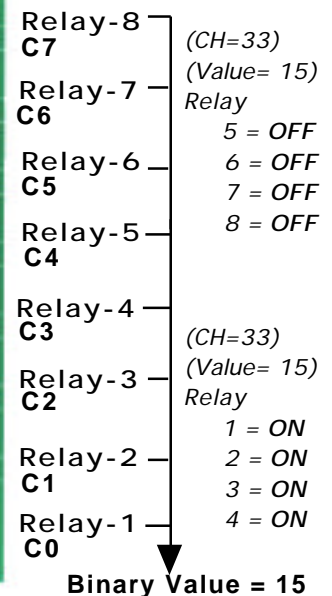
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## DMX 8-Channel Relay Board

**Board Address**  
**Binary Value**  
**Byte Mode - ON**



**Example**



**Setting the base address of Relay Outputs when in byte mode - Switch 10 set to ON**

Add the value of the address DIP switches set to the **ON** position to calculate the base address.

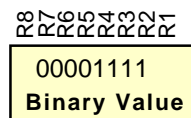
Example: DIP switches 6 and 1 set to **ON** position, the base address is now 33. (Single DMX control channel)

**Control Syntax - (See Binary Chart for Values)**

The DMX output values now act as a binary representation of the data on the base address channel. Example, if the **base address is set to 33** and the **value (Binary) on DMX channel 33 is 240** (Example: 11110000 in binary) then relays 5 through 8 would be energised and relays 1 through 4 OFF.

**Example RELAY - 1-4 =ON, 5-8 =OFF**

If the **base address is set to 33** and the **dmx value (Binary) on DMX channel 33 is 15** then relays 1 through 4 would be **ON** and relays 5-8 **OFF**.



**RELAY - 1,3,7 =ON, 2,4,5,6,8 =OFF**

If the **base address is set to 33** and the **dmx value (Binary) on DMX channel 33 is 162 (10100010)** then relays 1,3,7 would be **ON** and relays 2,4,5,6,8 **OFF**.

**RELAY - 2,4,6,8 =ON, 1,3,5,7 =OFF**

If the **base address is set to 33** and the **dmx value (Binary) on DMX channel 33 is 85 (01010101)** then relays 2,4,6,8 would be **ON** and relays 1,3,5,7 **OFF**.

**RELAY - 1-8 =ALL ON**

If the **base address is set to 33** and the **dmx value (Binary) on DMX channel 33 is 255 (11111111)** then relays 1 through 8 would be **ON**.

**RELAYS - 1-8 =All OFF**

If the **base address is set to 33** and the **dmx value (Binary) on DMX channel 33 is 0 (00000000)** then relays 1 through 8 would be **OFF**.

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## DMX 8-Channel Relay Board

### Binary Value Chart

8=R8  
7=R7  
6=R6  
5=R5  
4=R4  
3=R3  
2=R2  
1=R1

Page 1 of 2

CHANNELS 8-1 or RELAYS 8-1								
O=OFF	R8	R7	R6	R5	R4	R3	R2	R1
1=ON	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1

Channel 8-1	Digit	Channel 8-1	Digit	Channel 8-1	Digit	Channel 8-1	Digit	Channel 8-1	Digit
00000000	= 0	00110011	= 51	01100110	= 102	10011001	= 153	11001100	= 204
00000001	= 1	00110100	= 52	01100111	= 103	10011010	= 154	11001101	= 205
00000010	= 2	00110101	= 53	01101000	= 104	10011011	= 155	11001110	= 206
00000011	= 3	00110110	= 54	01101001	= 105	10011100	= 156	11001111	= 207
00000100	= 4	00110111	= 55	01101010	= 106	10011101	= 157	11010000	= 208
00000101	= 5	00111000	= 56	01101011	= 107	10011110	= 158	11010001	= 209
00000110	= 6	00111001	= 57	01101100	= 108	10011111	= 159	11010010	= 210
00000111	= 7	00111010	= 58	01101101	= 109	10100000	= 160	11010011	= 211
00001000	= 8	00111011	= 59	01101110	= 110	10100001	= 161	11010100	= 212
00001001	= 9	00111100	= 60	01101111	= 111	10100010	= 162	11010101	= 213
00001010	= 10	00111101	= 61	01110000	= 112	10100011	= 163	11010110	= 214
00001011	= 11	00111110	= 62	01110001	= 113	10100100	= 164	11010111	= 215
00001100	= 12	00111111	= 63	01110010	= 114	10100101	= 165	11011000	= 216
00001101	= 13	01000000	= 64	01110011	= 115	10100110	= 166	11011001	= 217
00001110	= 14	01000001	= 65	01110100	= 116	10100111	= 167	11011010	= 218
00001111	= 15	01000010	= 66	01110101	= 117	10101000	= 168	11011011	= 219
00010000	= 16	01000011	= 67	01110110	= 118	10101001	= 169	11011100	= 220
00010001	= 17	01000100	= 68	01110111	= 119	10101010	= 170	11011101	= 221
00010010	= 18	01000101	= 69	01111000	= 120	10101011	= 171	11011110	= 222
00010011	= 19	01000110	= 70	01111001	= 121	10001100	= 172	11011111	= 223
00010100	= 20	01000111	= 71	01111010	= 122	10101101	= 173	11100000	= 224
00010101	= 21	01001000	= 72	01111011	= 123	10101110	= 174	11100001	= 225
00010110	= 22	01001001	= 73	01111100	= 124	10101111	= 175	11100010	= 226
00010111	= 23	01001010	= 74	01111101	= 125	10110000	= 176	11100011	= 227
00011000	= 24	01001011	= 75	01111110	= 126	10110001	= 177	11100100	= 228
00011001	= 25	01001100	= 76	01111111	= 127	10110010	= 178	11100101	= 229
00011010	= 26	01001101	= 77	10000000	= 128	10110011	= 179	11100110	= 230
00011011	= 27	01001110	= 78	10000001	= 129	10110100	= 180	11100111	= 231
00011100	= 28	01001111	= 79	10000010	= 130	10110101	= 181	11101000	= 232
00011101	= 29	01010000	= 80	10000011	= 131	10110110	= 182	11101001	= 233
00011110	= 30	01010001	= 81	10000100	= 132	10110111	= 183	11101010	= 234
00011111	= 31	01010010	= 82	10000101	= 133	10111000	= 184	11101011	= 235
00100000	= 32	01010011	= 83	10000110	= 134	10111001	= 185	11101100	= 236
00100001	= 33	01010100	= 84	10000111	= 135	10111010	= 186	11101101	= 237
00100010	= 34	01010101	= 85	10001000	= 136	10111011	= 187	11101110	= 238
00100011	= 35	01010110	= 86	10001001	= 137	10111100	= 188	11101111	= 239
00100100	= 36	01010111	= 87	10001010	= 138	10111101	= 189	11110000	= 240
00100101	= 37	01011000	= 88	10001011	= 139	10111110	= 190	11110001	= 241
00100110	= 38	01011001	= 89	10001100	= 140	10111111	= 191	11110010	= 242

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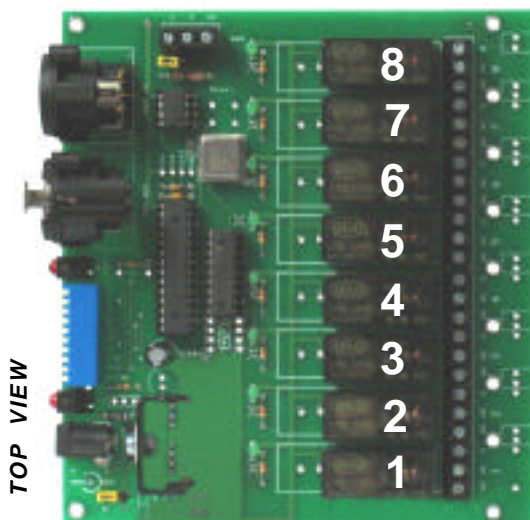
## DMX 8-Channel Relay Board

### Binary Value Chart - Cont.

Page 2 of 2

00100111 = 39	01011010 = 90	10001101 = 141	11000000 = 192	11110011 = 243
00101000 = 40	01011011 = 91	10001110 = 142	11000001 = 193	11110100 = 244
00101001 = 41	01011100 = 92	10001111 = 143	11000010 = 194	11110101 = 245
00101010 = 42	01011101 = 93	10010000 = 144	11000011 = 195	11110110 = 246
00101011 = 43	01011110 = 94	10010001 = 145	11000100 = 196	11110111 = 247
00101100 = 44	01011111 = 95	10010010 = 146	11000101 = 197	11111000 = 248
00101101 = 45	01100000 = 96	10010011 = 147	11000110 = 198	11111001 = 249
00101110 = 46	01100001 = 97	10010100 = 148	11000111 = 199	11111010 = 250
00101111 = 47	01100010 = 98	10010101 = 149	11001000 = 200	11111011 = 251
00110000 = 48	01100011 = 99	10010110 = 150	11001001 = 201	11111100 = 252
00110001 = 49	01100100 = 100	10010111 = 151	11001010 = 202	11111101 = 253
00110010 = 50	01100101 = 101	10011000 = 152	11001011 = 203	11111110 = 254
				11111111 = 255

	CHANNELS 7-0 or RELAYS 8-1								
	R8	R7	R6	R5	R4	R3	R2	R1	DMX - Relay
O=OFF - 1=ON	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1	O or 1	Binary Value
	C7	C6	C5	C4	C3	C2	C1	C0	Channel / Port
	128	64	32	16	8	4	2	1	Decimal Value
<b>Channels / Ports Binary Action</b>					<b>Binary Value</b>				
0 = Channel / Port / Relay OFF					0 = All Channels / Ports OFF				
1 = Channel / Port / Relay ON					255 = All Channels / Ports ON				



Relay No	Channel No	Decimal Value	Binary Value	Alpha Value
R-8	Ch7	128	0or1	H
R-7	Ch6	64	0or1	G
R-6	Ch5	32	0or1	F
R-5	Ch4	16	0or1	E
R-4	Ch3	8	0or1	D
R-3	Ch2	4	0or1	C
R-2	Ch1	2	0or1	B
R-1	Ch0	1	0or1	A

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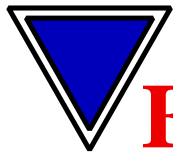
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**T**

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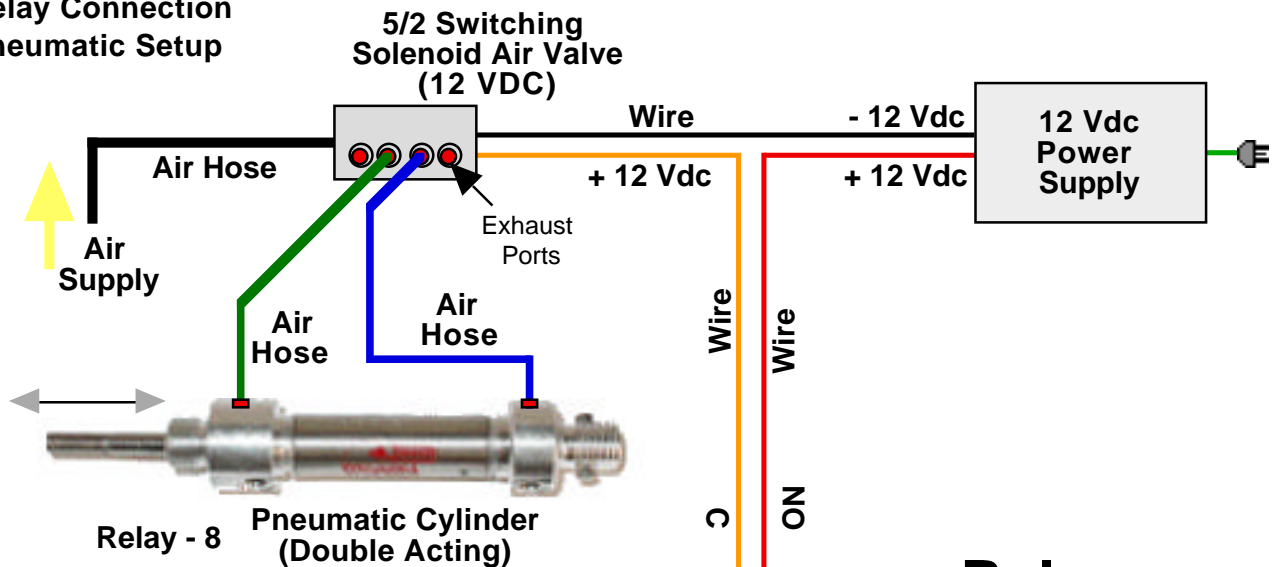
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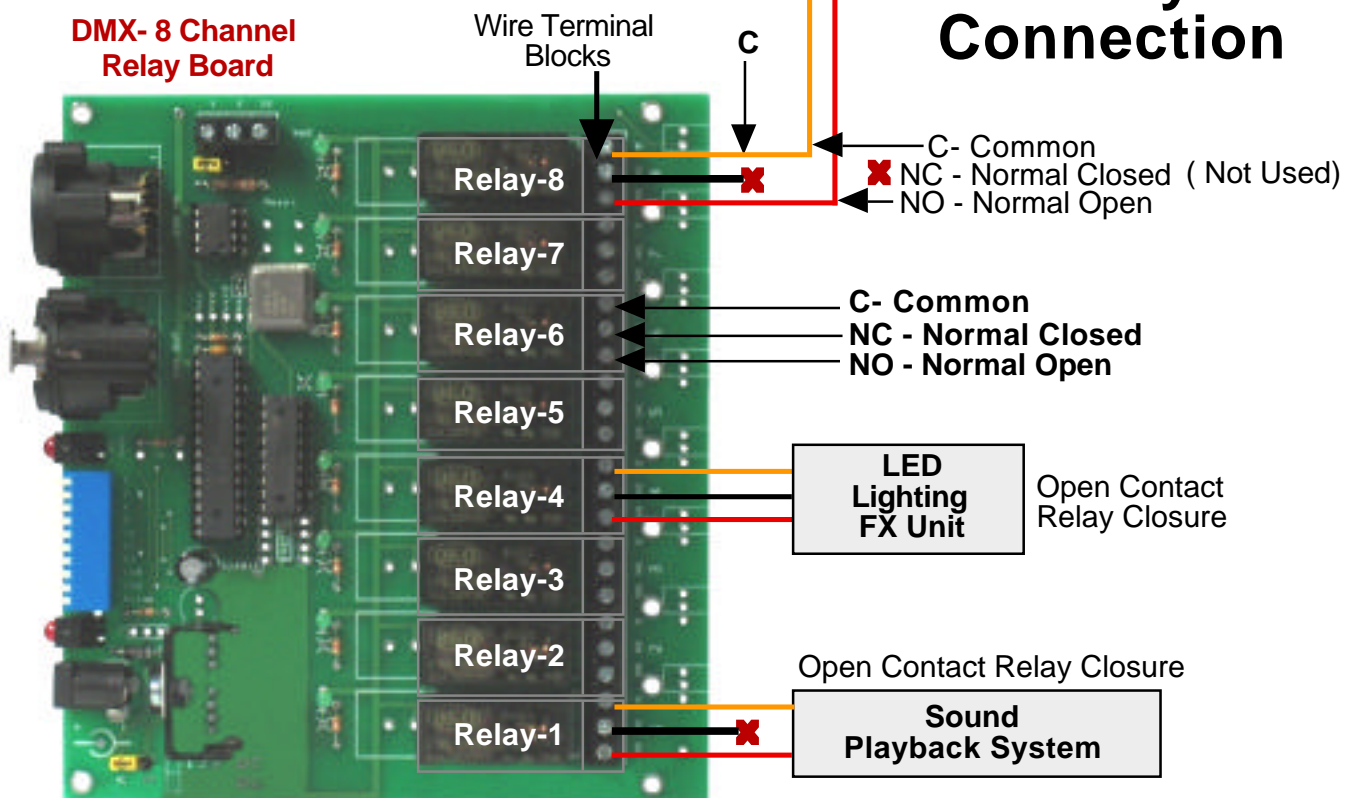
## DMX 8-Channel Relay Board

### Applications

Relay Connection  
Pneumatic Setup



### DMX- 8 Channel Relay Board



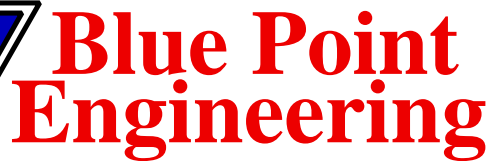
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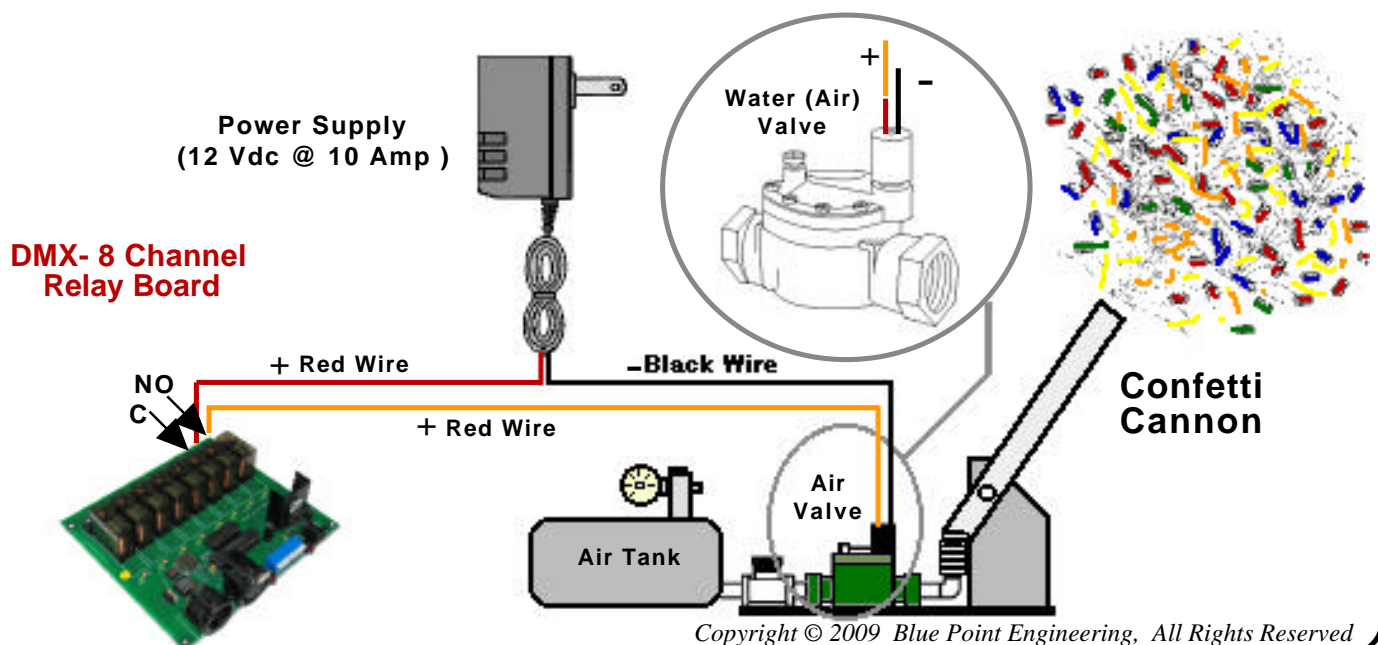
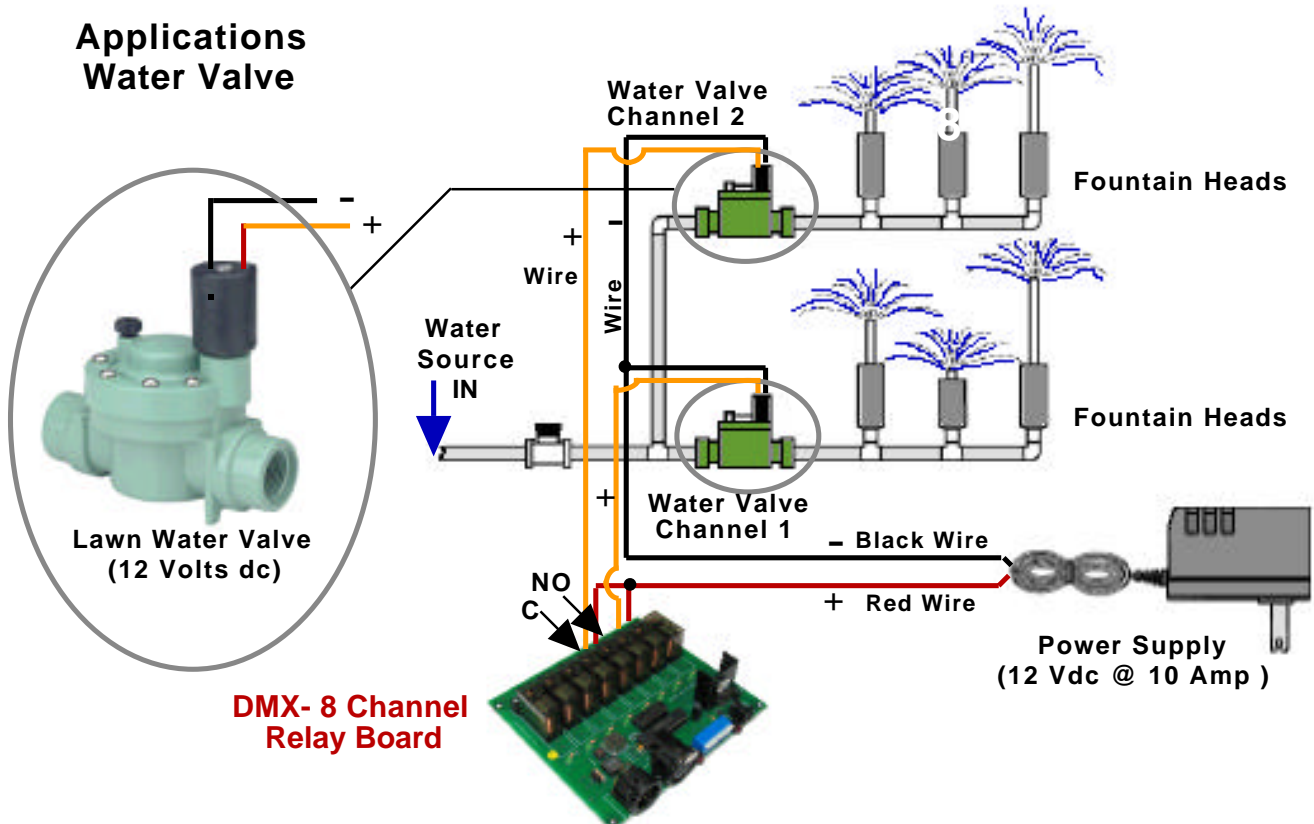
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## DMX 8-Channel Relay Board

### Applications Water Valve

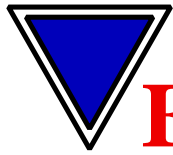


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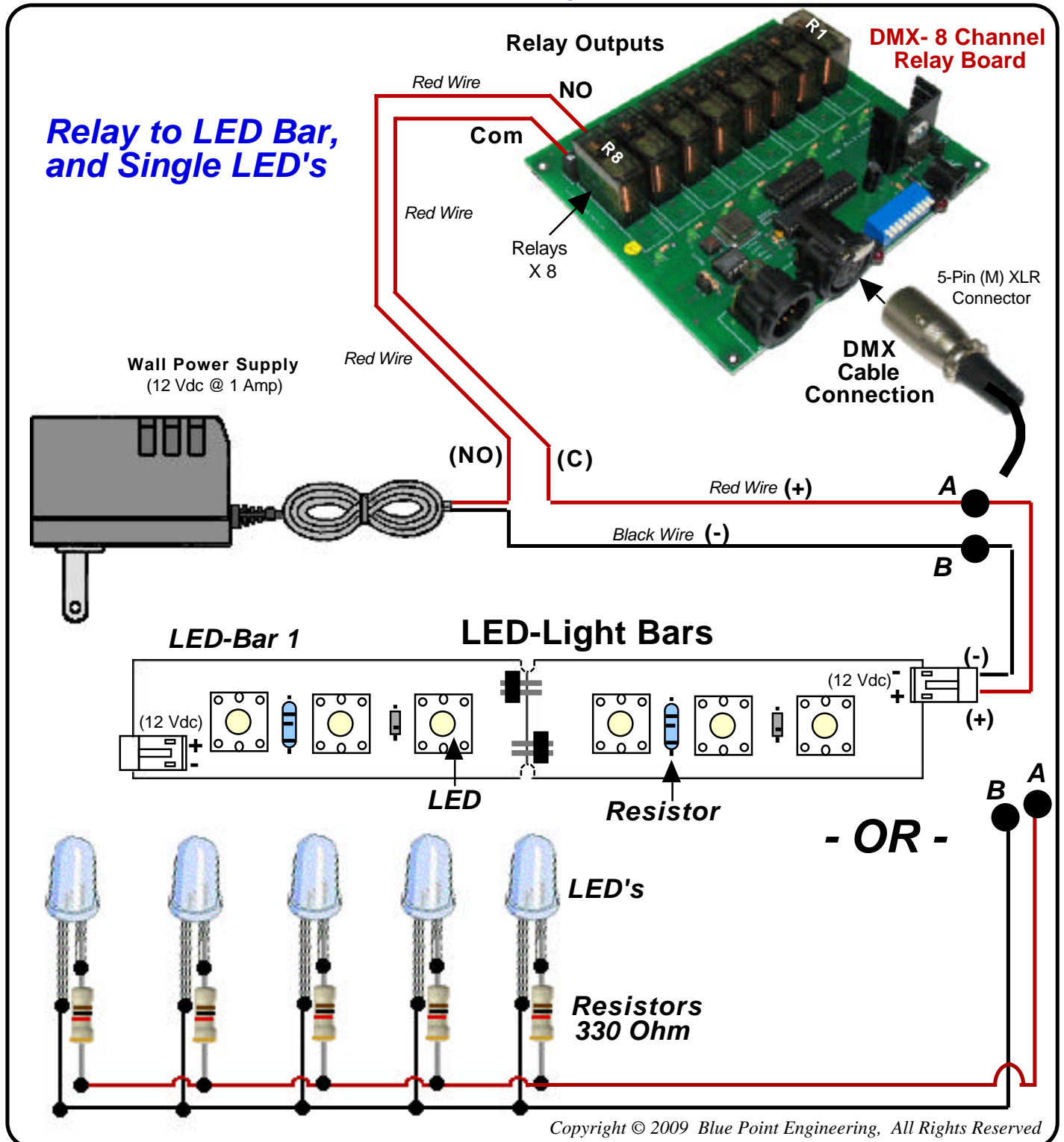
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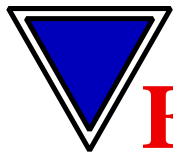


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## DMX 8-Channel Relay Board

### DMX Relay / Switch Logic

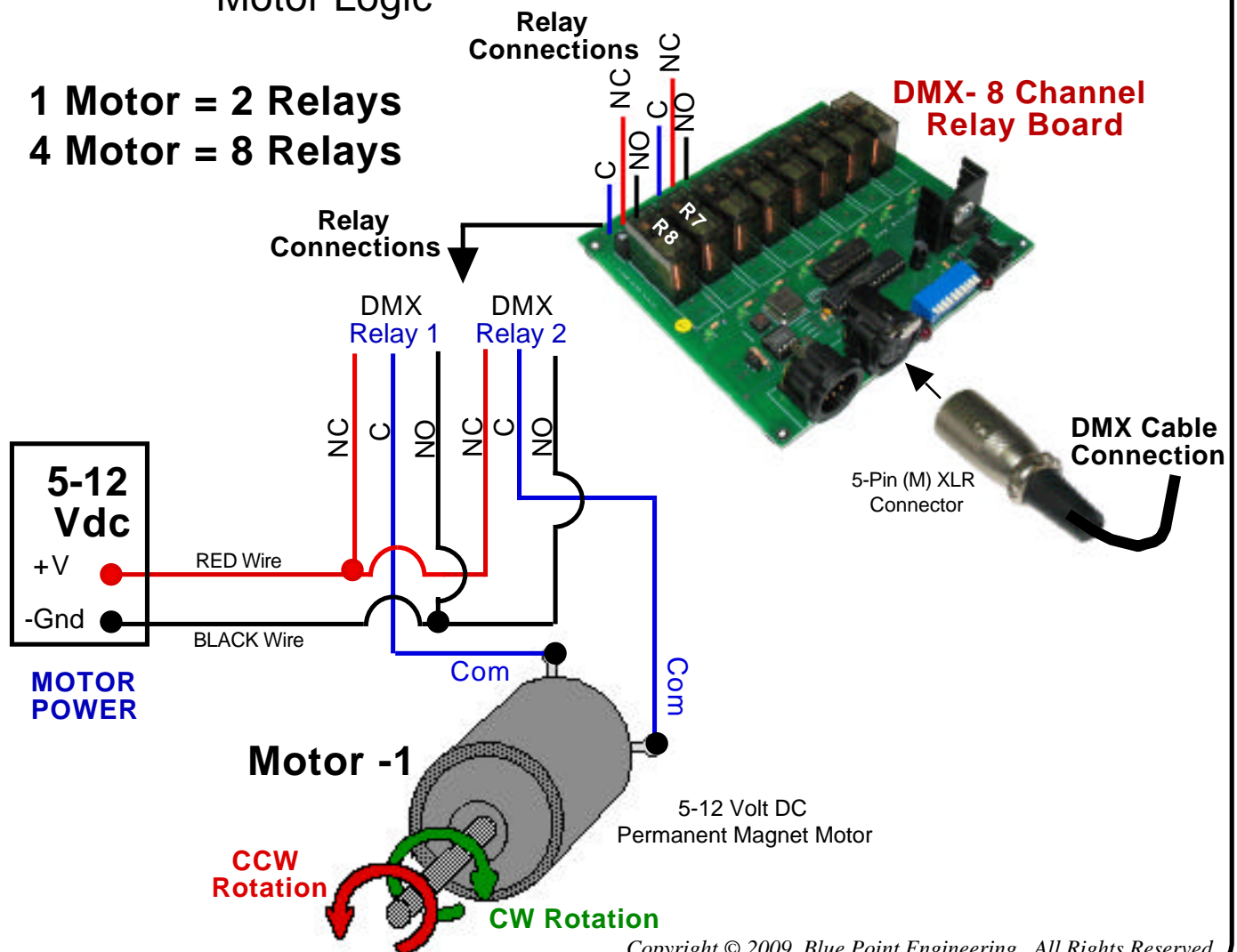
Motor No. 1	DMX Relay 1	DMX Relay 2	Motor Status
	OFF	OFF	STOP
	OFF	ON	CCW
	ON	OFF	CW
	ON	ON	STOP

### Motor Logic

1 Motor = 2 Relays  
4 Motor = 8 Relays

### Relay Motor Control

This design prevents the possibility of both relays from shorting back into the power supply when relays 1 and 2 are switched ON or OFF together at the same time.

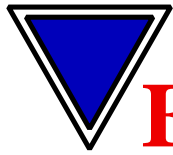


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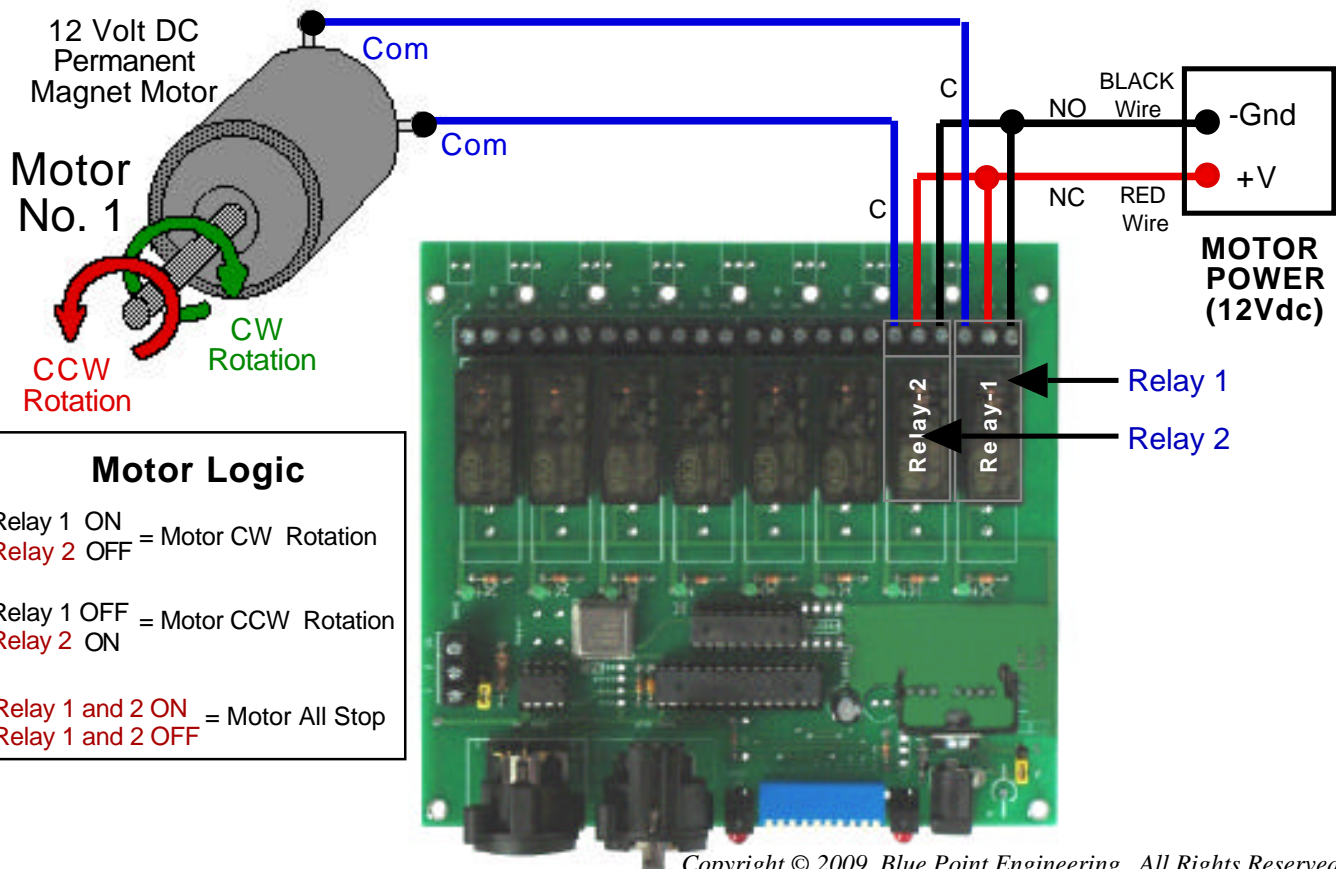
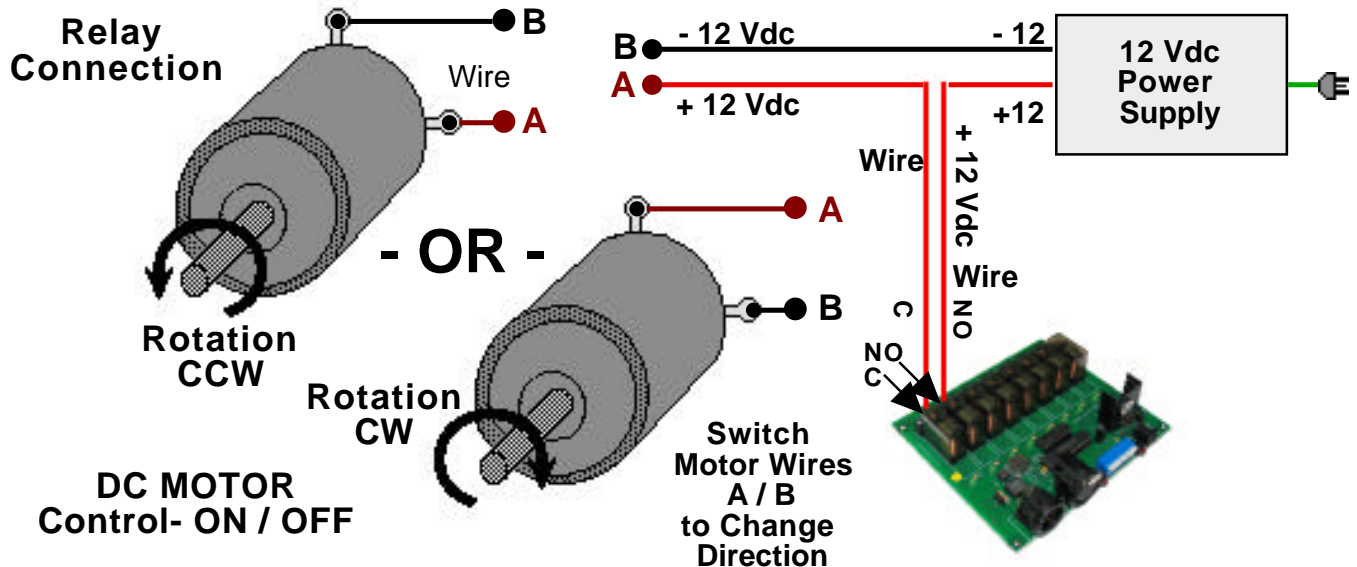
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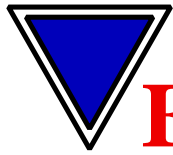


## DMX 8-Channel Relay Board



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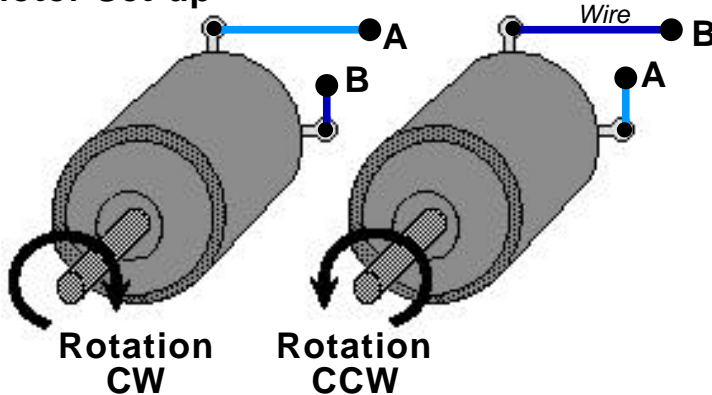
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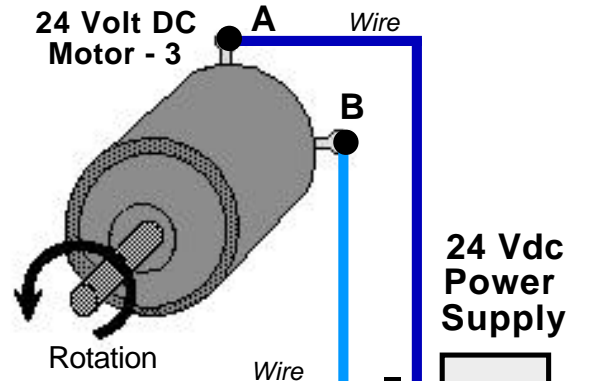
## DMX 8-Channel Relay Board

Application  
Motor Set-up

- OR -



24 Volt DC  
Motor - 3

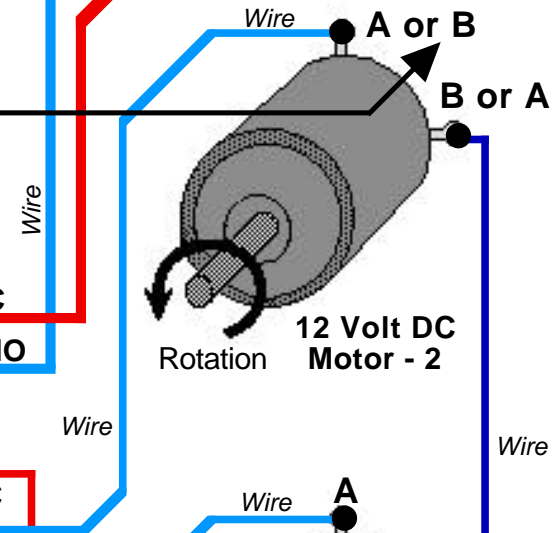
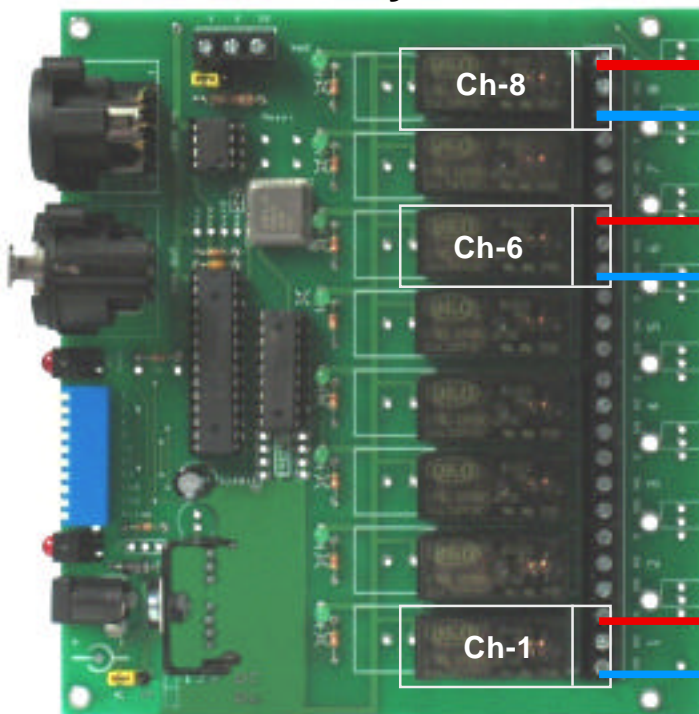


24 Vdc  
Power  
Supply

24

Switch A-B  
Switch B-A  
Rotation  
Change

DMX Relay Board



12 Volt DC  
Motor - 2

Wire

12 Vdc  
Power  
Supply

12

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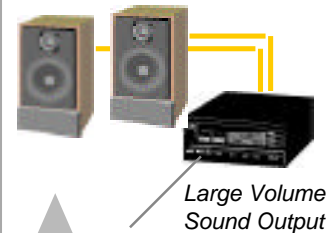
## DMX 8-Channel Relay Board

### Application

MP3 / Sound Board Playback

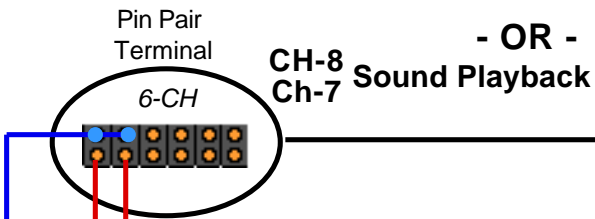
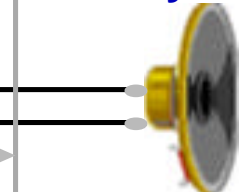
Sound Board Pro Module

**PLAYBACK**  
Large Volume  
Speaker and  
Amplifier  
(Mono Output)

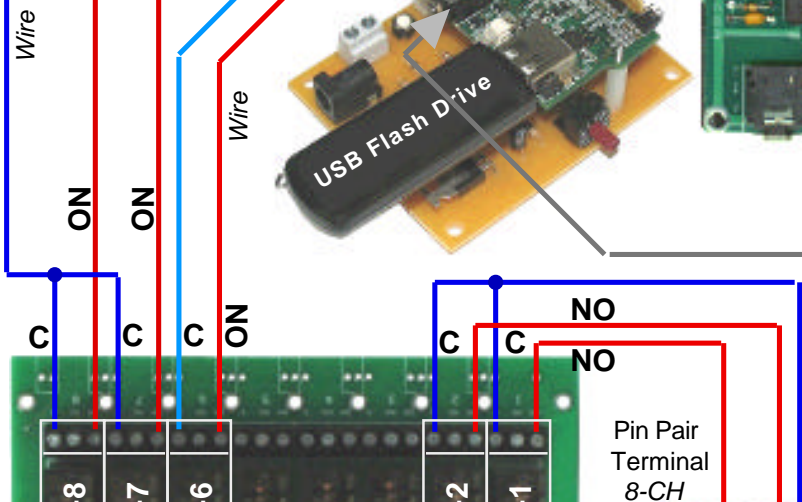
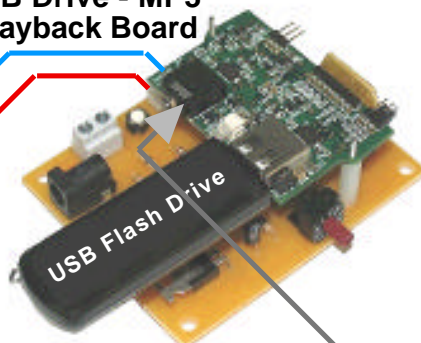


- OR -

**Speaker  
Playback**

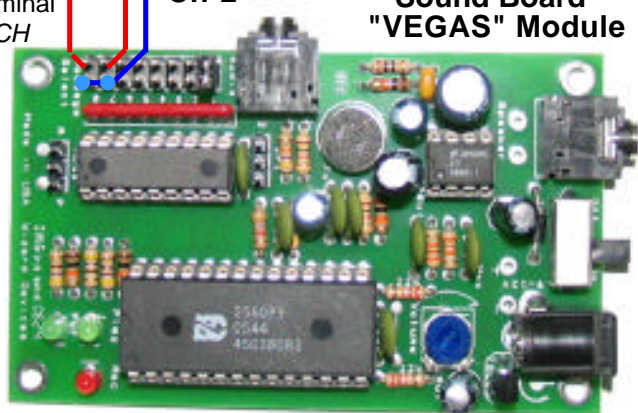
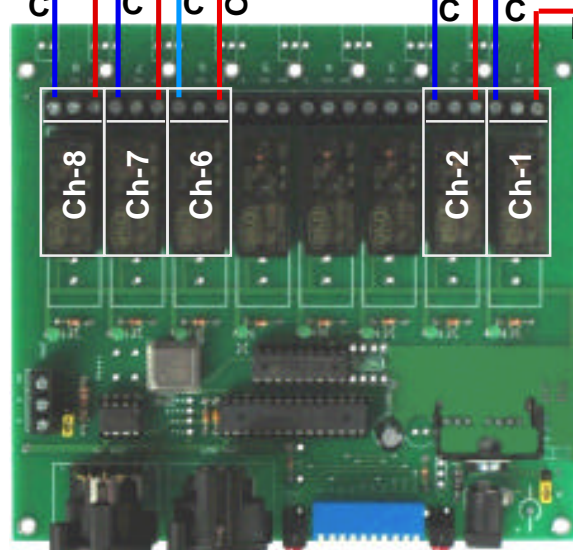


- OR -  
CH-6 Sound Playback  
USB Drive - MP3  
Playback Board



Sound Playback  
- OR -  
CH-1  
Ch-2

Sound Board  
"VEGAS" Module



DMX- 8-Ch Relay

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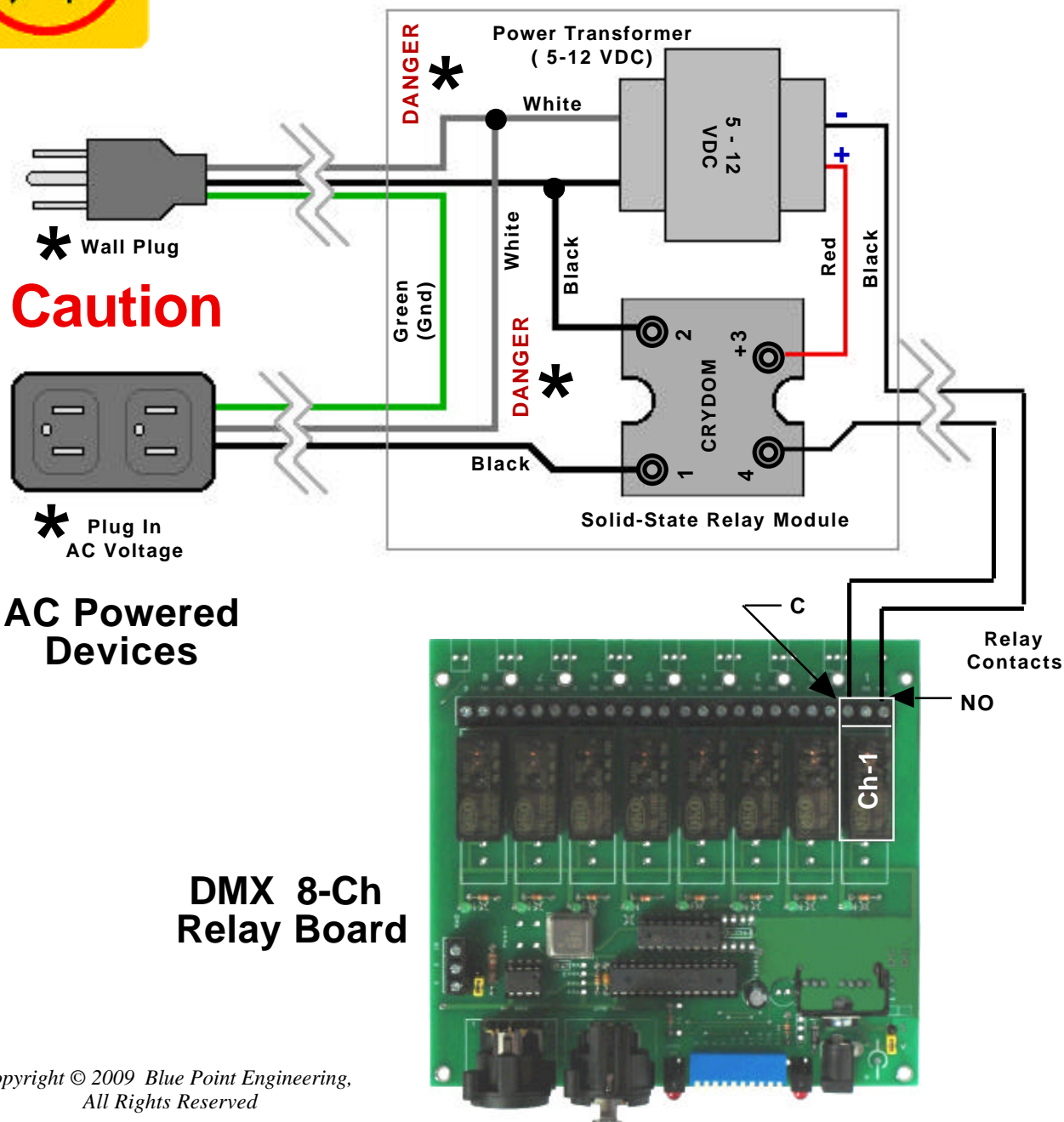
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## DMX 8-Channel Relay Board



### Large AC Power Control

\* Use caution when working with AC Voltage. Touching or incorrectly wiring this circuit could cause serious personal injury or damage to equipment.

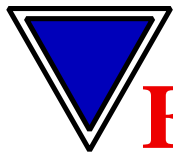


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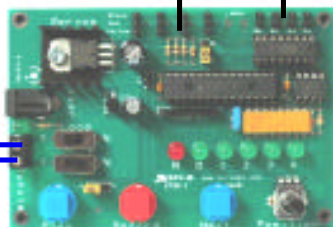


## DMX 8-Channel Relay Board

### Application

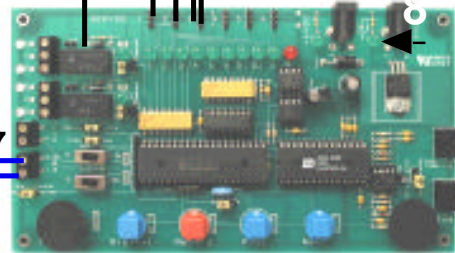
#### DMX Hybrid - Set-up Wizard Board Control

To Servomotors and  
Digital Output Channels



Wizard - 1 Controller Board

To Servos, Motors, Light FX  
& Sound Effect Playback

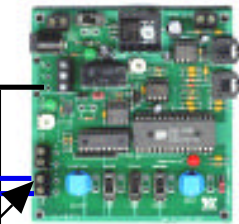


Wizard - 11 Controller Board

OTHER  
Wizard / Puppet  
Controllers

Ch-4  
A B

Wizard - 8  
Controller Board

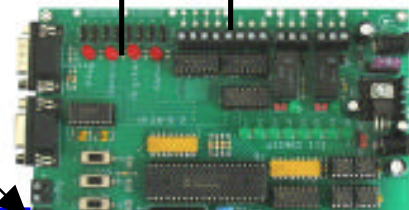


Ch-5

Wizard Board  
REM Port  
Connections  
(2-Wire)

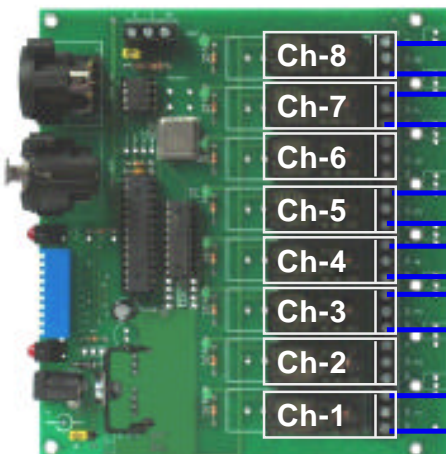
To VAC Devices & Sound  
Effects Playback

To Servos, Motors, Light FX  
& Sound Effect Playback



Wizard - 3 Controller Board

#### Wizard REM Port Activation by DMX- 8 Ch Relay



DMX 8- Channel  
Relay Board

Ch-8

Ch-7

Ch-5

Ch-4

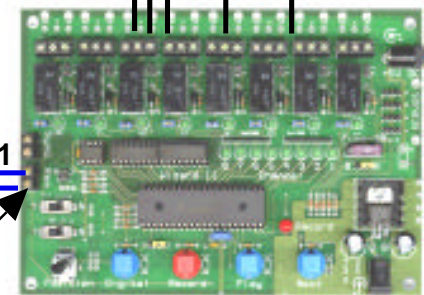
Ch-3

Ch-1

Wizard Board  
REM Port  
Connections (2-Wire)

Ch-1

To Motors, Light s, LED's  
Special Effect Devices



Wizard - 2 Controller Board



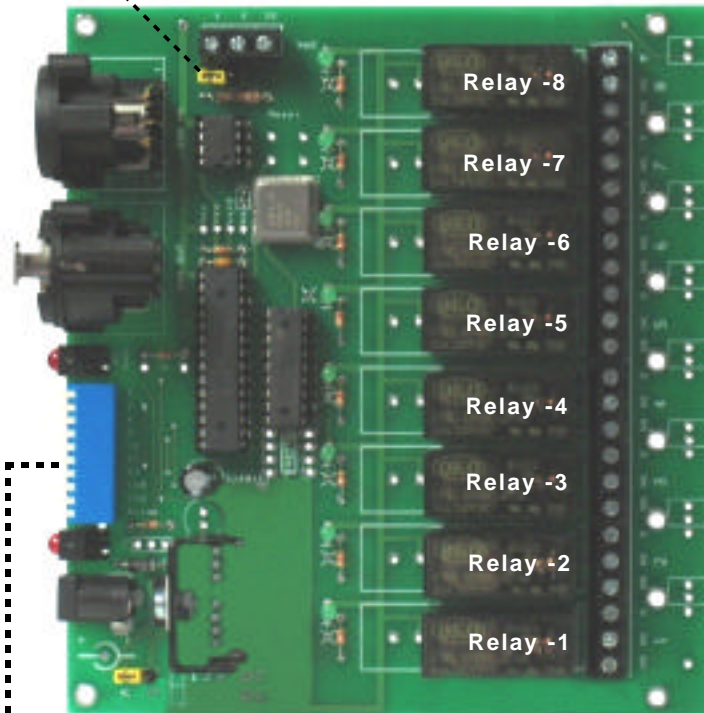
## DMX 8-Channel Relay Board

### Notes / Worksheet:

DMX RELAY BOARD NO: \_\_\_\_\_

DMX RELAY BOARD Application: \_\_\_\_\_

TRM = (ON / OFF) \_\_\_\_\_



#### Addressing

#### Output Application

Relay -8

Relay -7

Relay -6

Relay -5

Relay -4

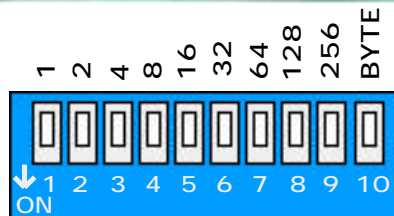
Relay -3

Relay -2

Relay -1

#### Addressing

1 = Relay ON  
0 = Relay OFF



Switch Positions  
(UP / Down )

OFF UP  
ON Down

SW-1  
SW-2  
SW-3  
SW-4  
SW-5  
SW-6  
SW-7  
SW-8  
SW-9  
SW-10

Value	0 OFF	1 ON
-------	----------	---------

#### Addressing

DMX

Position

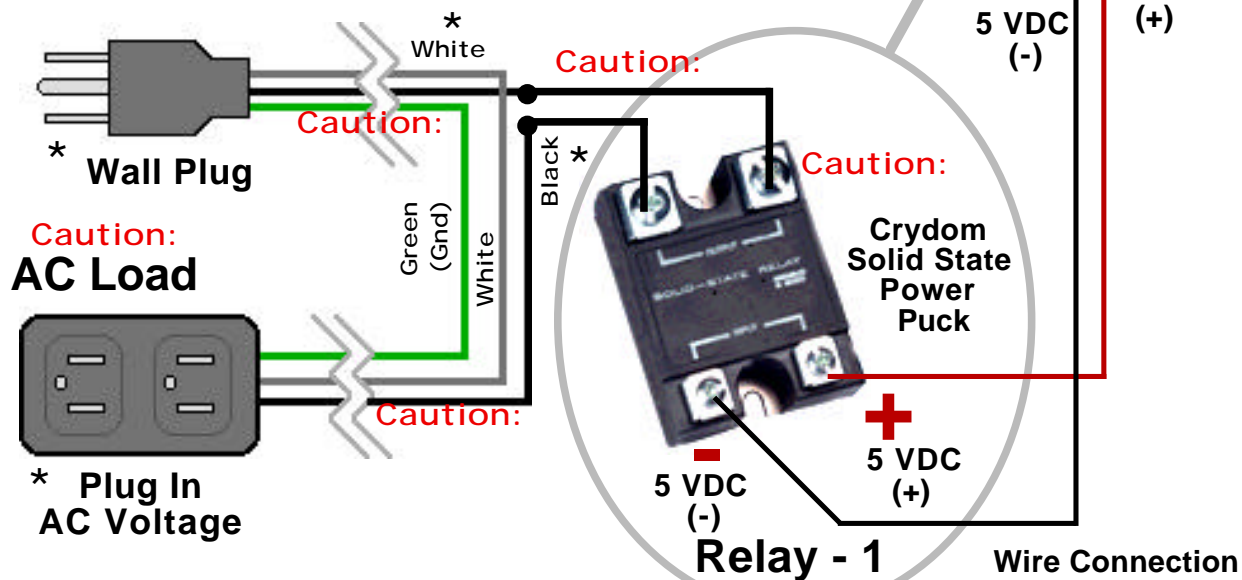
## DMX 8-Channel Relay Board

### OPTIONAL Remote Solid State Power Block Relay Hook-up



### Caution:

\* Use caution when working with AC Voltage. Touching or incorrectly wiring this circuit could cause serious personal injury, DEATH or damage to equipment.



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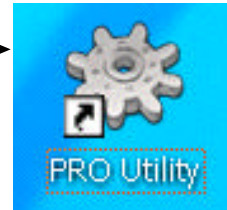
## DMX 8-Channel Relay Board

### Testing DMX - 8 Ch Relay Board

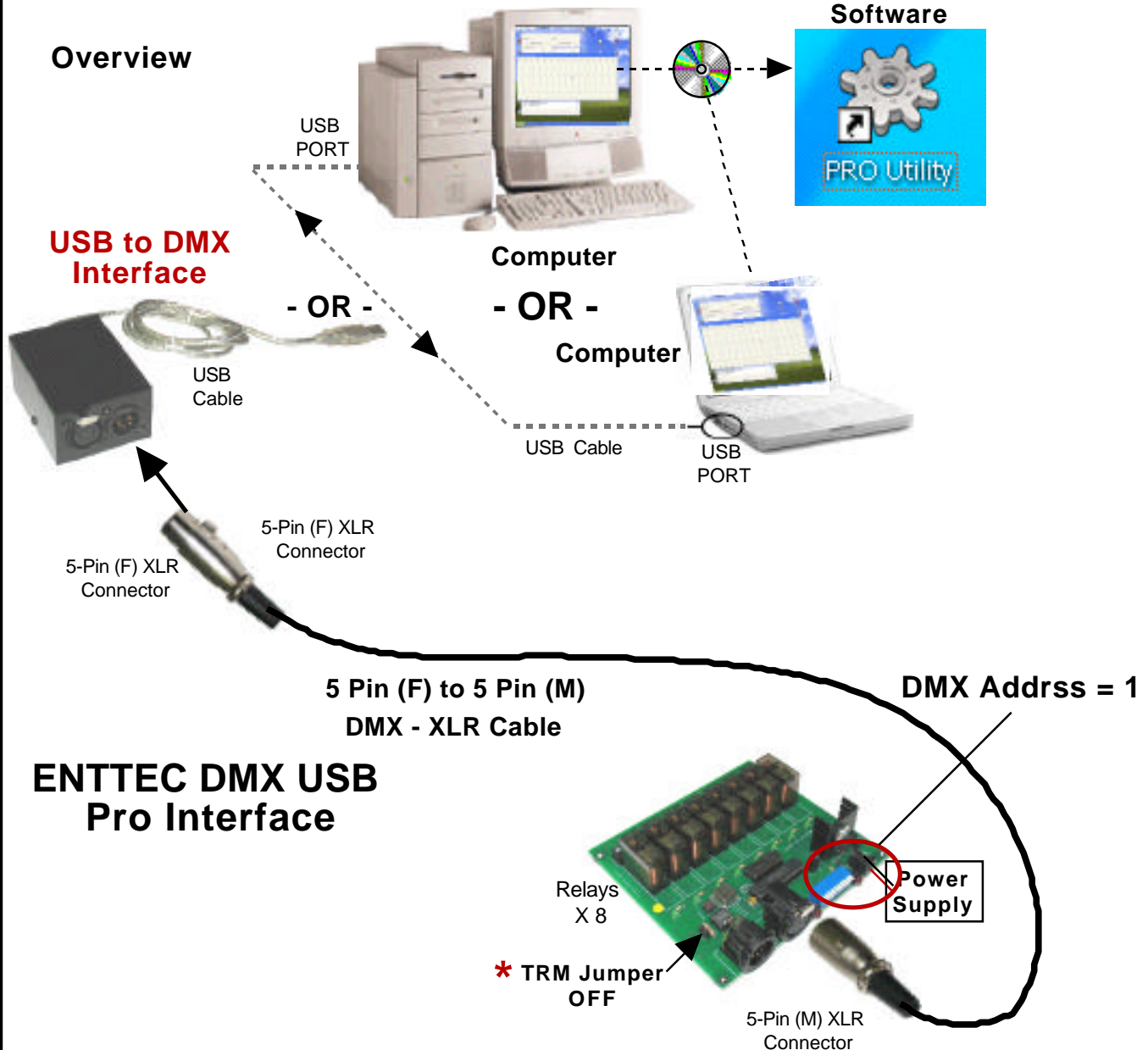
1. Setup DMX MP3 Hardware
2. Set DMX address to 1

### DMX-Setup

ENTTEC  
Software



#### Overview



3. Power ON - DMX - 8 Channel Relay Board

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## DMX 8-Channel Relay Board

**ENTTEC DMX USB Pro Interface**

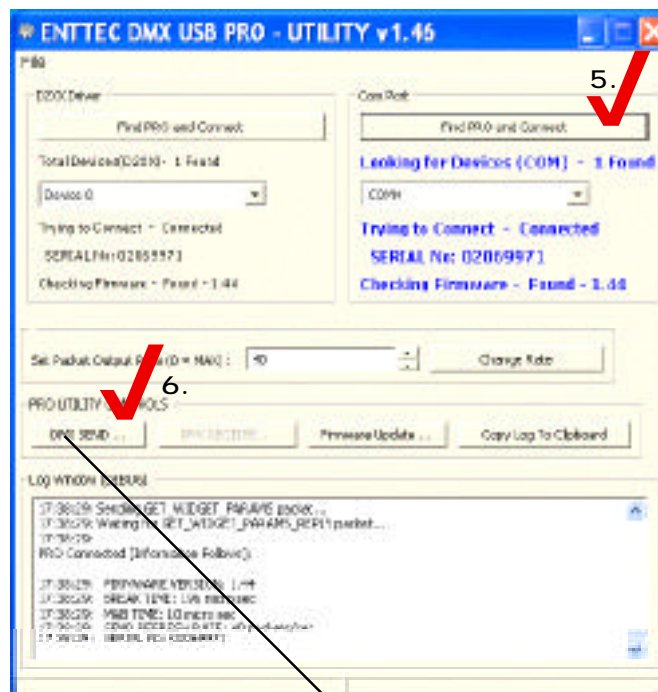
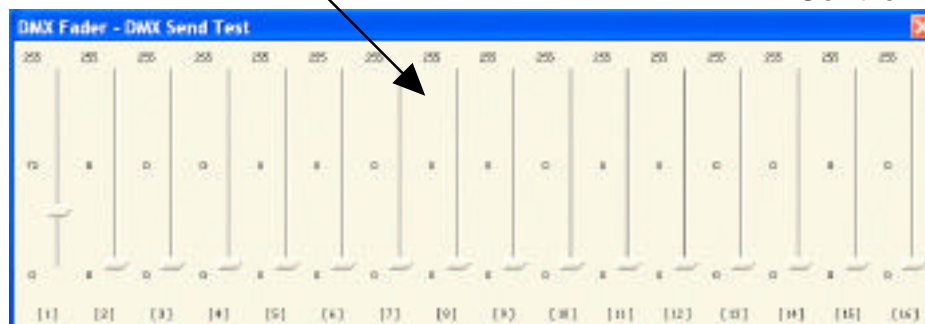

### Testing DMX - 8 Ch Relay Board

4.  Launch Software Application (PRO Utility)

Launch "PRO Utility" software from the computer connected to the USB to DMX Interface

5.  Click on "Find PRO and Connect" Bar Button

6.  Click on "DMX SEND..." bar button


**ENTTEC DMX USB Pro Interface**
**DMX Fader - DMX Send Test Control Panel**


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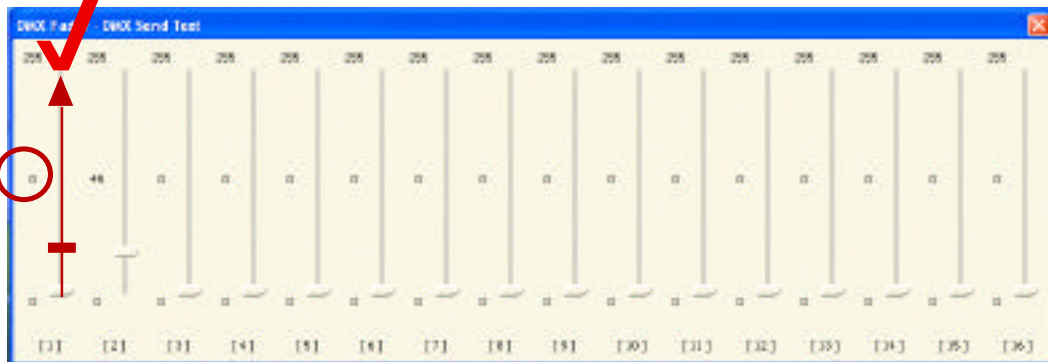
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## DMX 8-Channel Relay Board

### Testing DMX - 8 Ch Relay Board

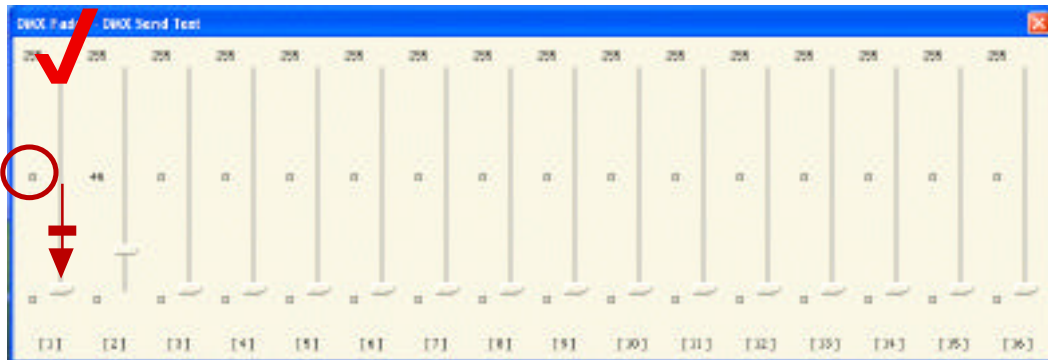
7. Slide Ch1 (1) Fader Up to Value 255  
(DMX Relay Ch 1 should turn ON)

Value  
255

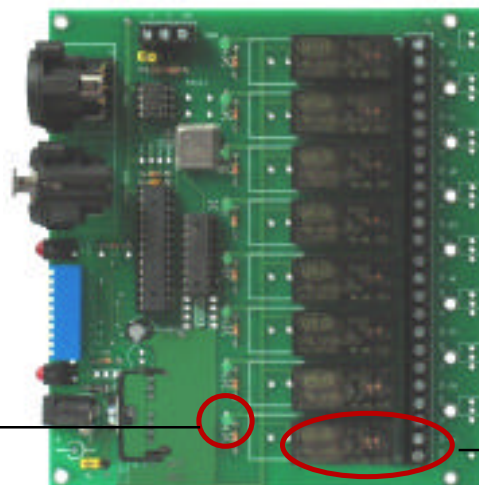


8. Slide Ch1 (1) Fader Down to Value 0  
(DMX Relay Ch 1 should turn OFF)

Value  
0



(DMX Relay Ch 1)  
Channel LED - On / Off



Relay - On / Off

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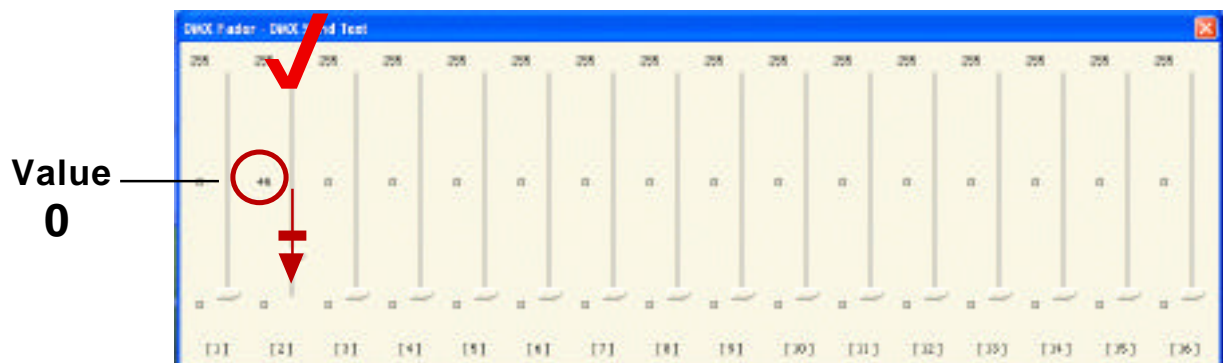
## ***DMX 8-Channel Relay Board***

### **Testing DMX - 8 Ch Relay Board**

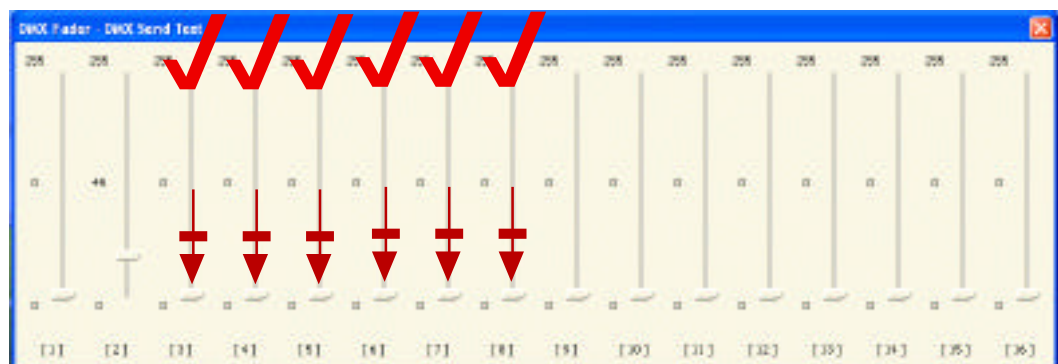
9. **Slide Ch2 (2) Fader Up to Value 255  
(DMX Relay Ch 2 should turn ON)**



10. **Slide Ch2 (2) Fader Down to Value 0  
(DMX Relay Ch 2 should turn OFF)**



11. **Repeat Steps 9 to 10, for DMX Relays 3-8  
(DMX Relay Channels should turn ON/OFF)**



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