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DMX 8-Channel Relay Board

Version 2.0 -2018 WD1493

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.

Mechanical Relays Rated: 10 Amps @ 240V AC. Board Requires 12 VDC @ 0.5 Amp Supply.

DMX 8-Ch Relay Board
5-Pin XLR Connectors / Wire Block

Power Supply: 12VDC @ 0.5 Amp 5-1/2" W x 5-1/8" L x 1-3/8" H

Setup

Connections

The board requires a 12V DC supply at 0.5 Amps (or 24V DC at 250mA for the 24V version). 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.

Connect your loads / devices to the relevant volt-free relay outputs 1-8. (See relay setup and application example pages for details). Each relay is rated at 10 Amps at 240V AC.

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.

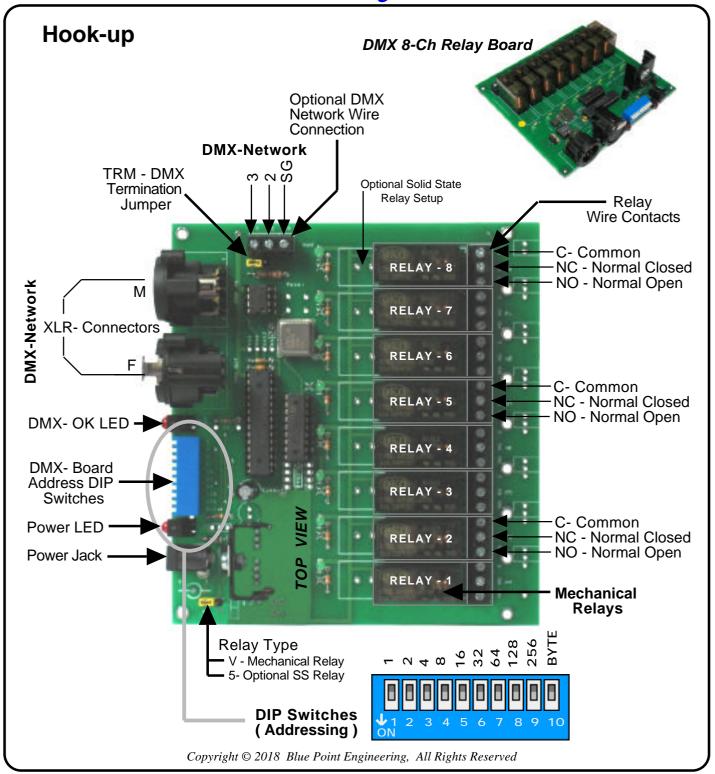
The jumper next to the input power socket should be set to the V position when using mechanical relays and set to the 5 position when using the Solid State Relay Board version. (Default =V)

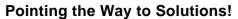
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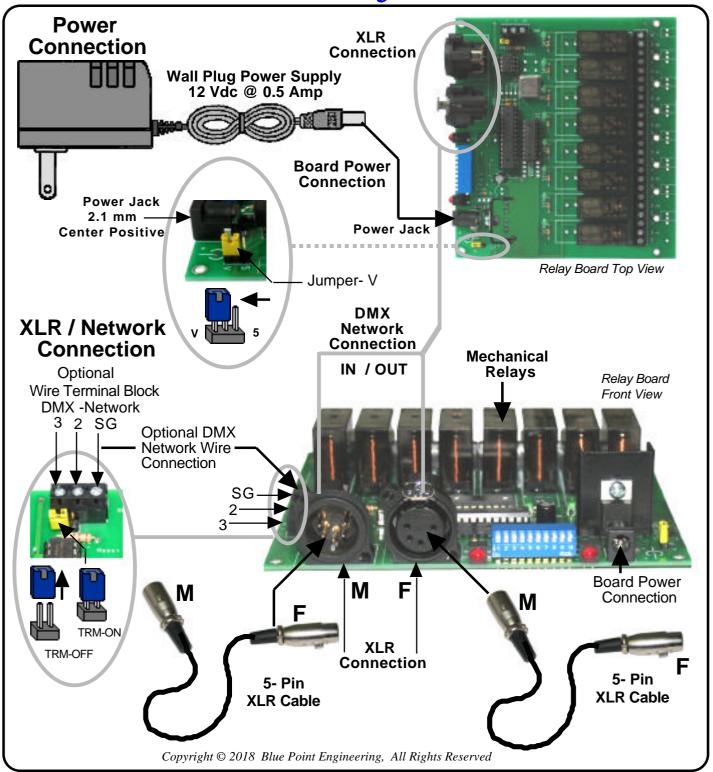


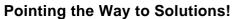






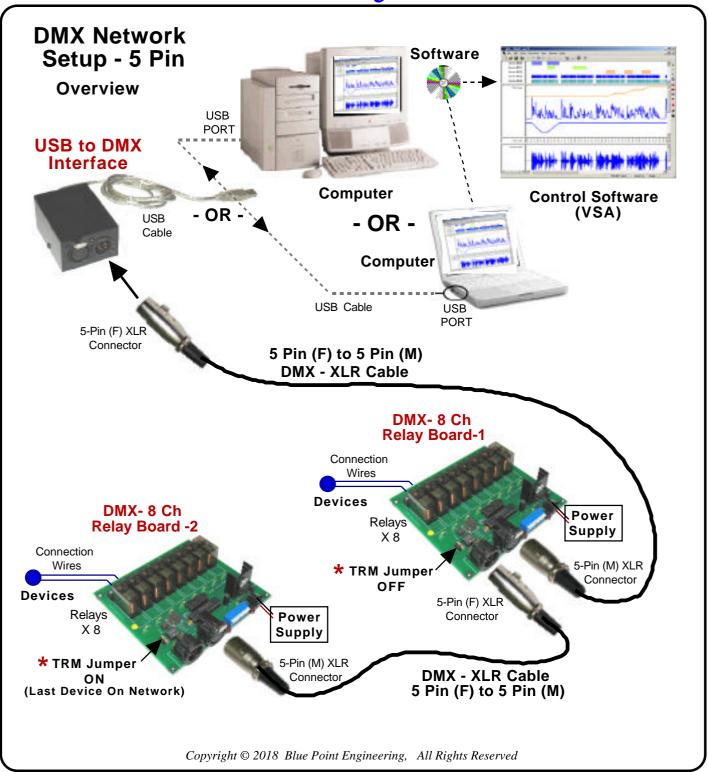


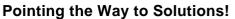






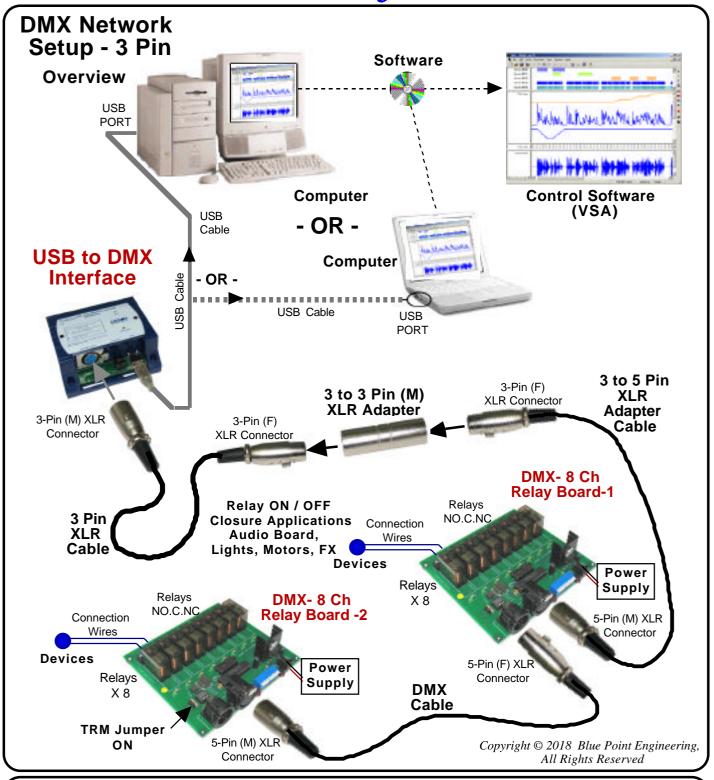






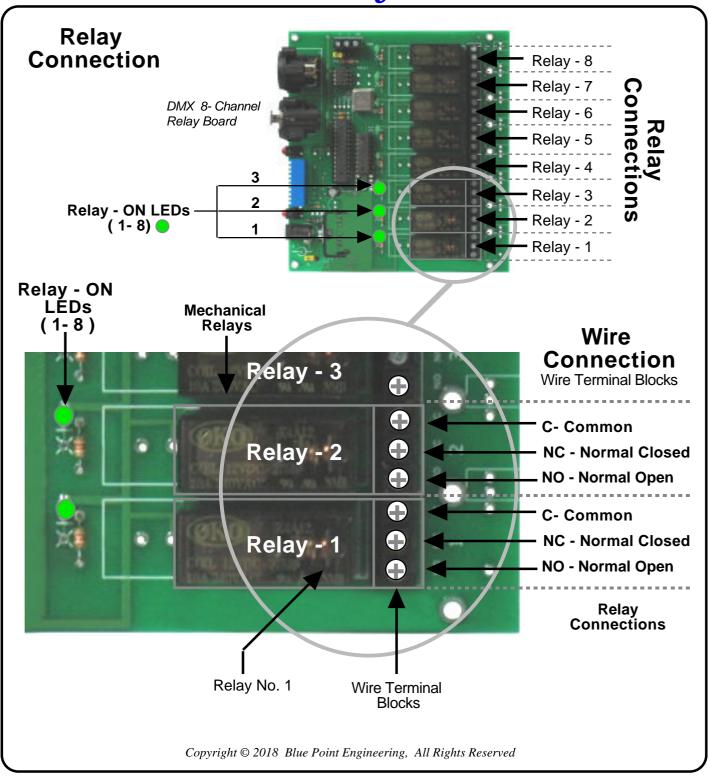






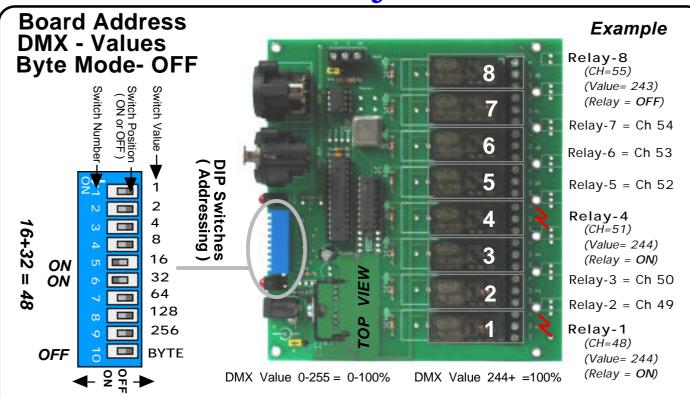












Setting the base address of Relay Outputs when not in byte mode - Switch 10 set to OFF Add the value of the address DIP switches set to the **ON** position to calculate the base address.

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 Syntex - (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

Dlp 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-

Dlp 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-

Dlp 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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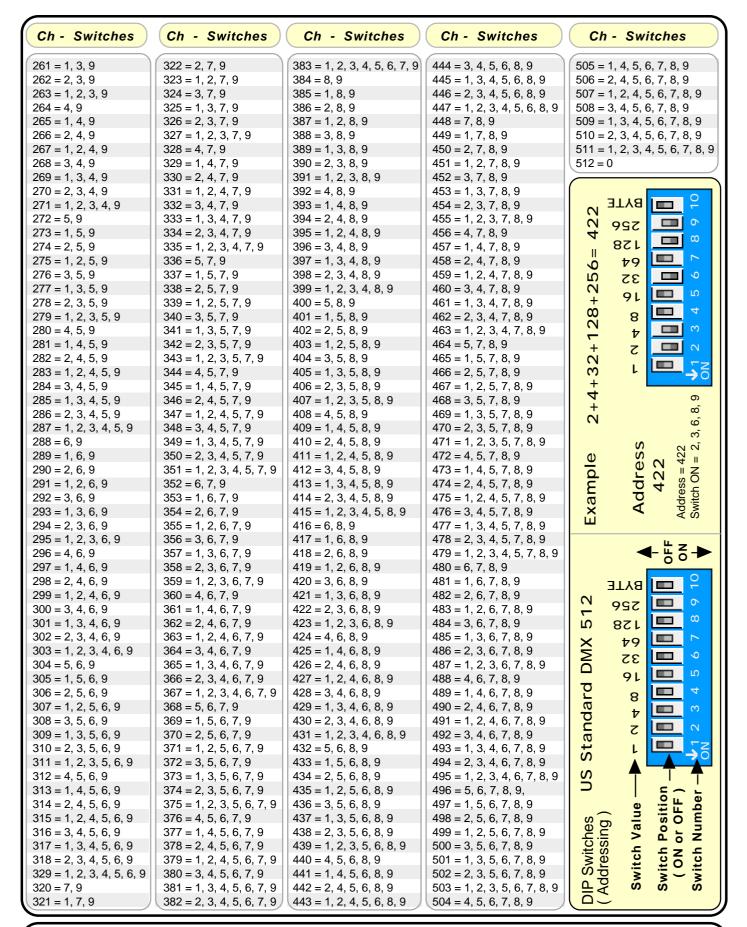


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DMX 512 Chart - US Standard

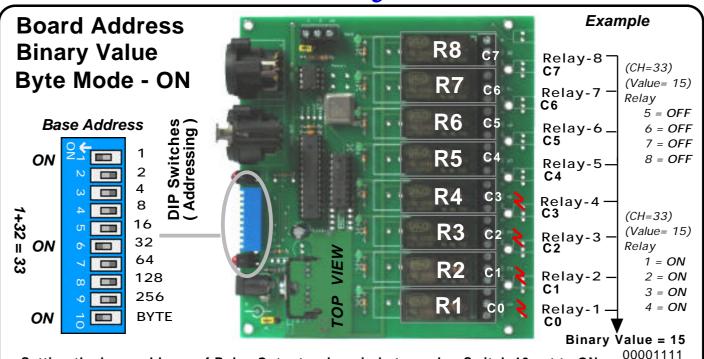
Chart A - US Standard DMX 512

Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches
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, 2, 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









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 Syntex - (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 is15 then relays 1 through 4 would be ON and relays 5-8 OFF.

00001111

Binary Value

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 (111111111) then relays 1 through 8 would be ON.

RELAYS - 1-8 = AII 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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	Bina	arv	' Val	lue	\boldsymbol{C}	<i>hart</i>			C7 C6 C5					
					, ,				128 64 32		8 4	2	1 Decimal	value
CH 7-0 76543210	Digit		:H 7-0 543210	Digit		CH 7-0 76543210	Digit		CH 7-C 765432		Digit	-	CH 7-0 76543210	Digit
					JL		لـــــــــا					L		
0000000	= 0		110011	= 51		01100110	= 102		1001100		= 153		11001100	= 204
00000001	= 1		110100	= 52		01100111	= 103		1001101		= 154		11001101	= 205
00000010	= 2		110101	= 53		01101000	= 104		1001101		= 155		11001110	= 206
00000011	= 3		110110	= 54		01101001	= 105		1001110		= 156		11001111	= 207
00000100	= 4		110111	= 55		01101010	= 106		1001110		= 157		11010000	= 208
00000101	= 5		111000	= 56		01101011	= 107		1001111		= 158		11010001	= 209
00000110	= 6		111001	= 57		01101100	= 108		1001111		= 159		11010010	= 210
00000111	= 7		111010	= 58		01101101	= 109		1010000		= 160		11010011	= 211
00001000	= 8		111011	= 59		01101110	= 110		1010000		= 161		11010100	= 212
00001001	= 9		111100	= 60		01101111	= 111		1010001		= 162		11010101	= 213
00001010	= 10		111101	= 61		01110000	= 112		1010001		= 163		11010110	= 214
00001011	= 11		111110	= 62		01110001	= 113		1010010		= 164		11010111	= 215
00001100	= 12		111111	= 63		01110010	= 114		1010010		= 165		11011000	= 216
00001101	= 13		000000	= 64		01110011	= 115		1010011		= 166		11011001	= 217
00001110	= 14		000001	= 65		01110100	= 116		1010011		= 167		11011010	= 218
00001111	= 15		000010	= 66		01110101	= 117		1010100		= 168		11011011	= 219
00010000	= 16		000011	= 67		01110110	= 118		1010100		= 169		11011100	= 220
00010001	= 17		000100	= 68		01110111	= 119		1010101		= 170		11011101	= 221
00010010	= 18		000101	= 69		01111000	= 120		1010101		= 171		11011110	= 222
00010011	= 19		000110	= 70 = 71		01111001 01111010	= 121		1000110		= 172		11011111	= 223 = 224
	= 20		000111				= 122		1010110		= 173		11100000	
00010101	= 21 = 22		001000	= 72 = 73		01111011	= 123 = 124		1010111		= 174 = 175		11100001	= 225 = 226
00010110	= 22		001001			01111100							11100010	= 227
00010111 00011000	= 23		001010	= 74 = 75		01111101 01111110	= 125 = 126		1011000		= 176 = 177		11100011 11100100	= 227
00011000	= 24		001011	= 75		01111111	= 120		1011000		= 177		11100100	= 228
00011001	= 26		001100	= 77	Н	10000000	=127		101100		= 179		11100101	= 230
00011010	= 27		001101	= 78		10000000	= 129		101100		= 180		11100110	= 231
00011011	= 28		001110	= 79		10000001	= 130		1011010		= 181		11101000	= 232
00011101	= 29		010000	= 80		10000010	= 131		1011010		= 182		11101000	= 233
00011101	= 30		010000	= 81	П	10000111	= 132		101101		= 183		11101010	= 234
00011111	= 31		010010	= 82		10000101	= 133		1011100		= 184		11101011	= 235
00100000	= 32		010010	= 83	П	10000110	= 134		1011100		= 185		11101100	= 236
00100001	= 33		010100	= 84		10000111	= 135		1011101		= 186		11101101	= 237
00100010	= 34		010101	= 85	П	10001000	= 136		101110		= 187		11101110	= 238
00100011	= 35		010110	= 86		10001001	= 137		1011110		= 188		11101111	= 239
00100100	= 36		010111	= 87	П	10001010	= 138		1011110		= 189		11110000	= 240
00100101	= 37		011000	= 88		10001011	= 139		1011111		= 190		11110001	= 241
00100110	= 38		011001	= 89	П	10001100	= 140		1011111		= 191		11110010	= 242
00100111	= 39		011010	= 90		10001101	= 141		1100000		= 192		11110011	= 243
00101000	= 40		011011	= 91	1	10001110	= 142		1100000		= 193		11110100	= 244
00101001	= 41		011100	= 92		10001111	= 143		1100001		= 194		11110101	= 245
00101010	= 42		011101	= 93	П	10010000	= 144		1100001		= 195		11110110	= 246
00101011	= 43		011110	= 94		10010001	= 145		1100010		= 196		11110111	= 247
00101100	= 44		011111	= 95	П	10010010	= 146		1100010		= 197		11111000	= 248
00101101	= 45		100000	= 96		10010011	= 147		1100011		= 198		11111001	= 249
00101110	= 46		100001	= 97	1	10010100	= 148		1100011		= 199		11111010	= 250
00101111	= 47		100010	= 98		10010101	= 149		1100100		= 200		11111011	= 251
00110000	= 48		100011	= 99		10010110	= 150		1100100		= 201		11111100	= 252
00110001	= 49		100100	= 100		10010111	= 151		1100101		= 202		11111101	= 253
00110010	= 50		100101	= 101	1	10011000	= 152		1100101		= 203		11111110	= 254
								0			t / Ch		11111111	=255
1 = Port / (s / Channels			11 11 11 1 -			_	Version 1.	
O = Port / (Channe	OFF	255 =	= All P	orts	s / Channels	ON	7	6543210	Nu	mbering	3	2009	-





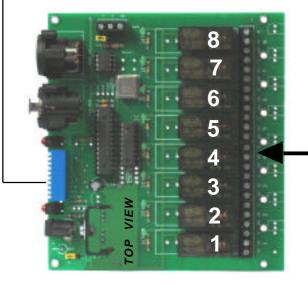
		СН							
	R8	R7	R6	R5	R4	R3	R2	R1	DMX - Relay
0=0FF - 1=0N	O or 1	Binary Value							
	C7	C6	C5	C4	С3	C2	C1	CO	Channel / Port
	128	64	32	16	8	4	2	1	Decimal Value

Channels / Ports Binary Action

0= Channel / Port / Relay OFF 1= Channel / Port / Relay ON Binary Value

0 = All Channels / Ports OFF 255 = All Channels / Ports ON

DMX 8- Ch Relay Board



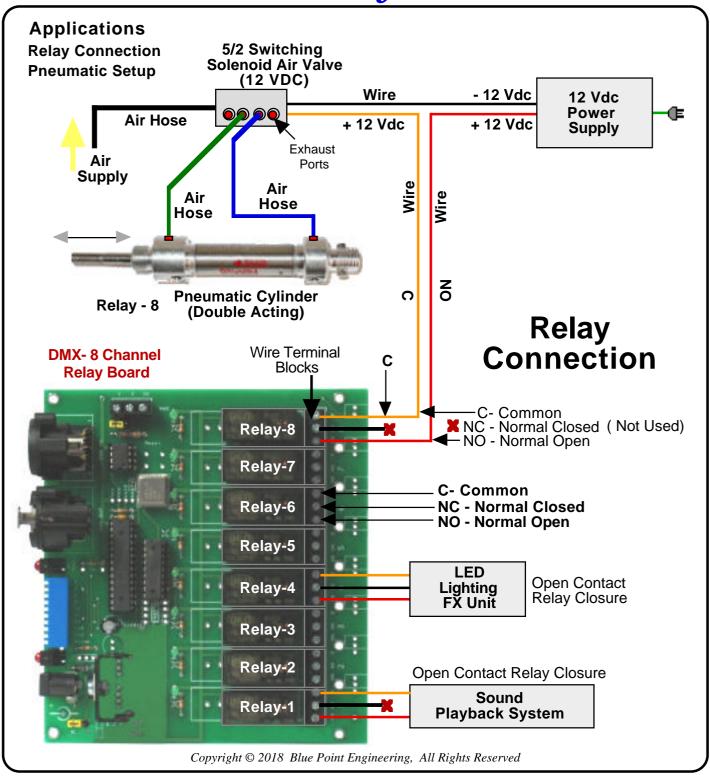
Relay No	Channel No	Decimal Value	Binary Value	Alpha Value
R-8	Ch7	128	0 or 1	Η
R-7	Ch6	64	0 or 1	G
R-6	Ch5	32	0 or 1	F
R-5	Ch4	16	0 or 1	Ε
R-4	Ch3	8	0 or 1	D
R-3	Ch2	4	0 or 1	C
R-2	Ch1	2	0 or 1	В
R-1	Ch0	1	0 or 1	Α

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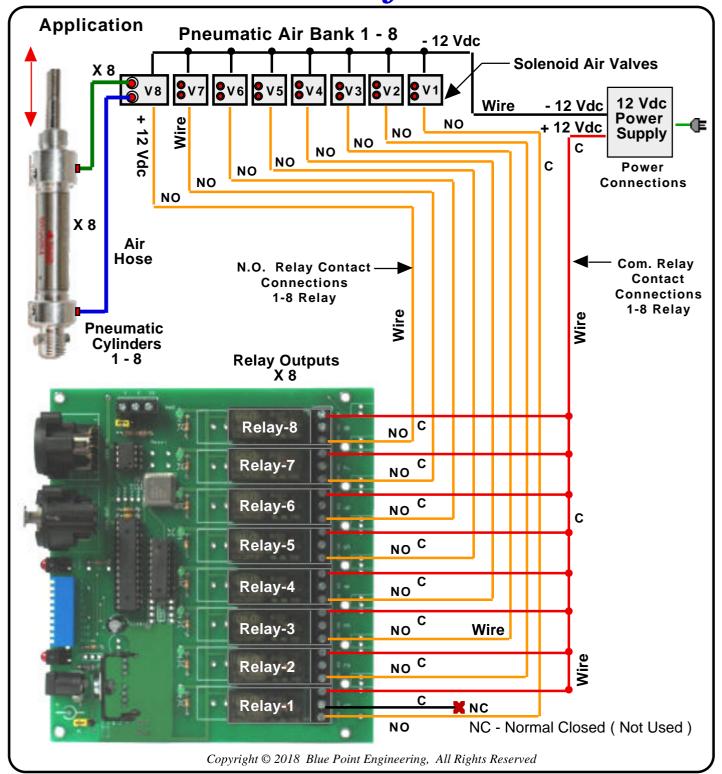










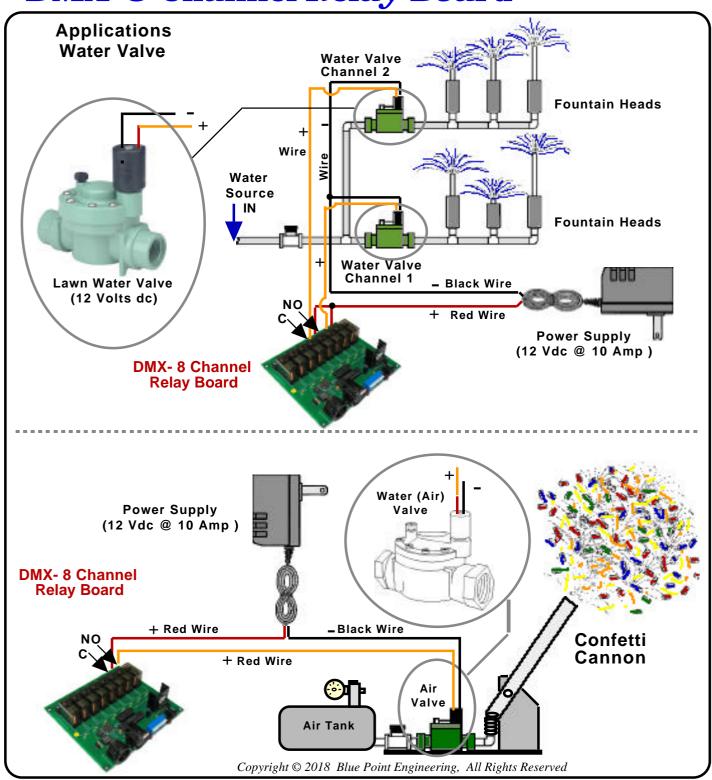








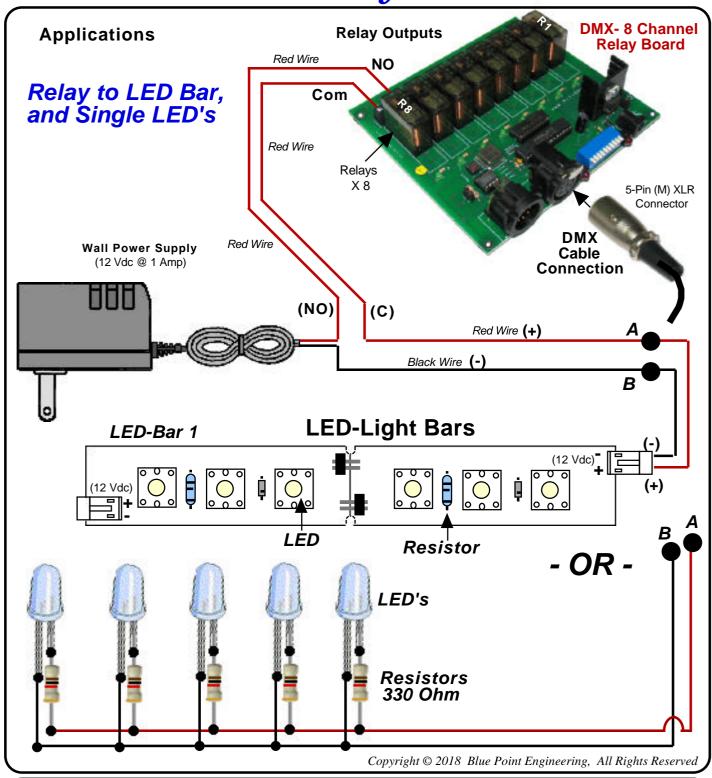
Engineering Pointing the Way to Solutions! DMX 8-Channel Relay Board













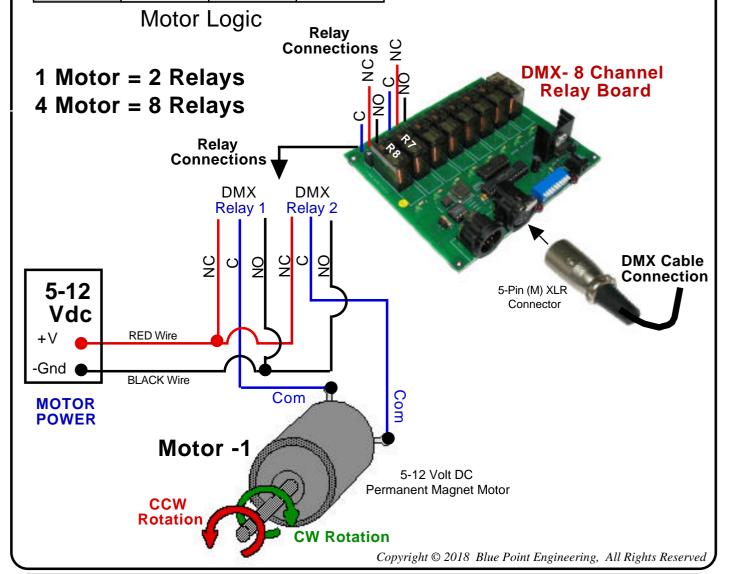


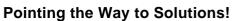
DMX Relay / Switch Logic

	DMX Relay 1	DMX Relay 2	Motor Status
34 - 4	OFF	OFF	STOP
Motor No. 1	OFF	ON	CCW
	ON	OFF	CW
	ON	ON	STOP

Relay Motor Control

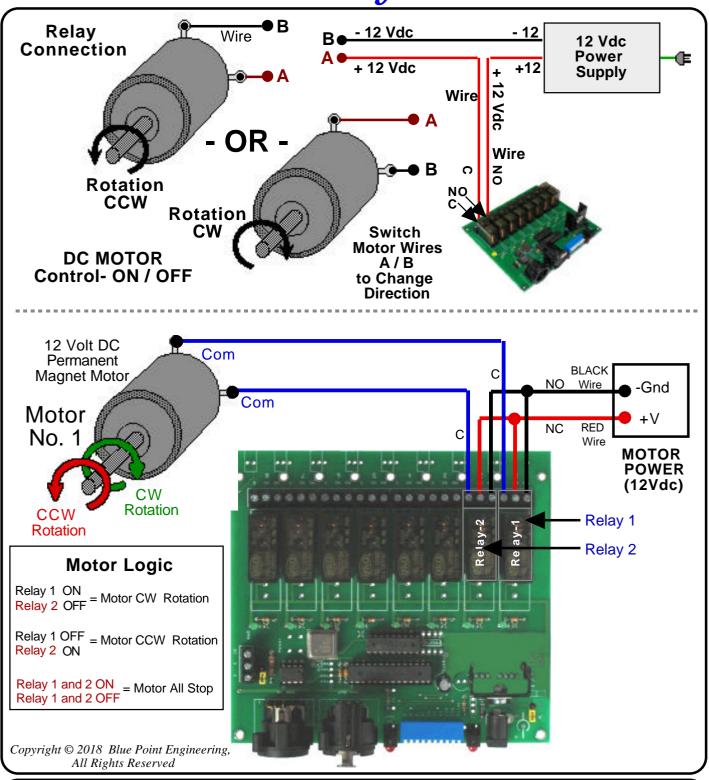
This design prevents the possibility of both relays from shorting back into the power supply when relays 1 and 2 are switched ON or OFF together at the same time.





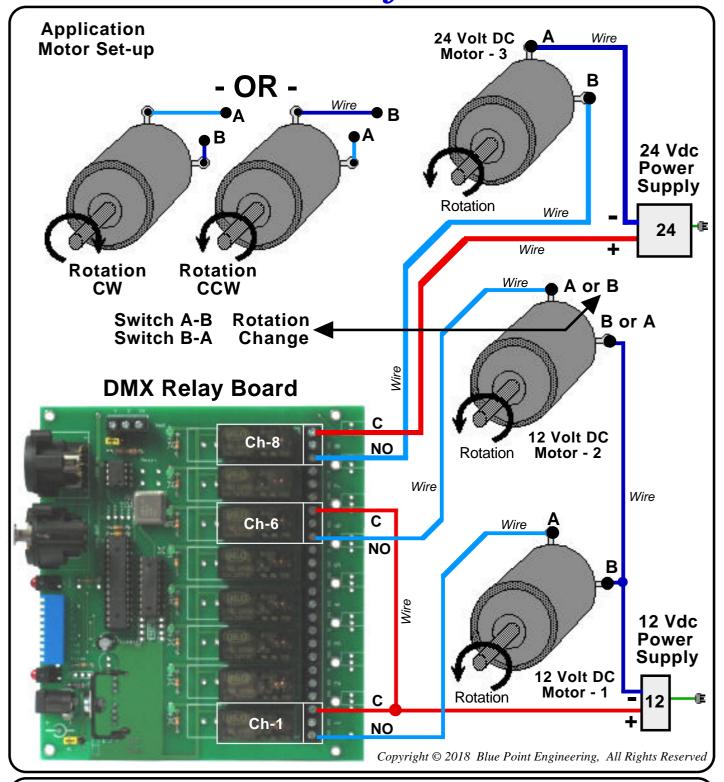






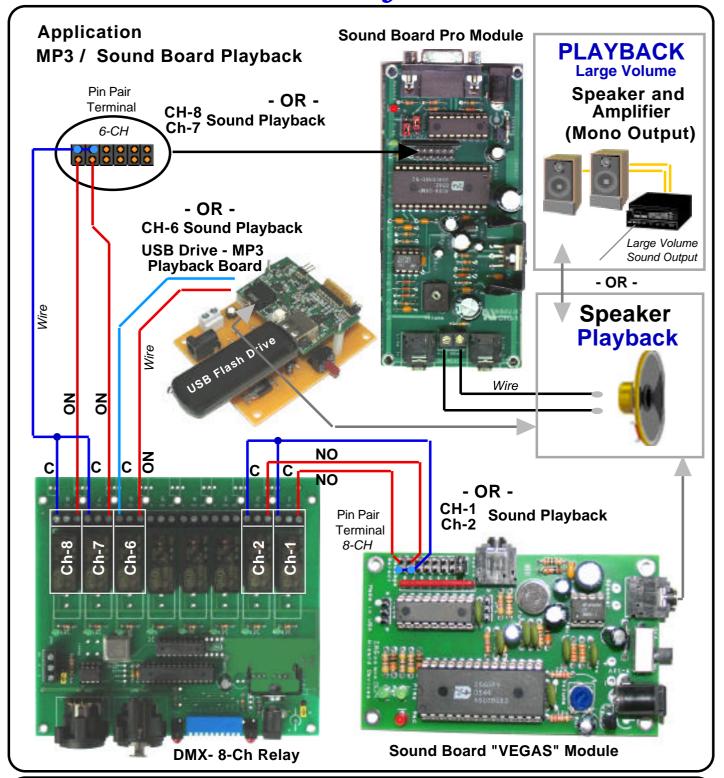








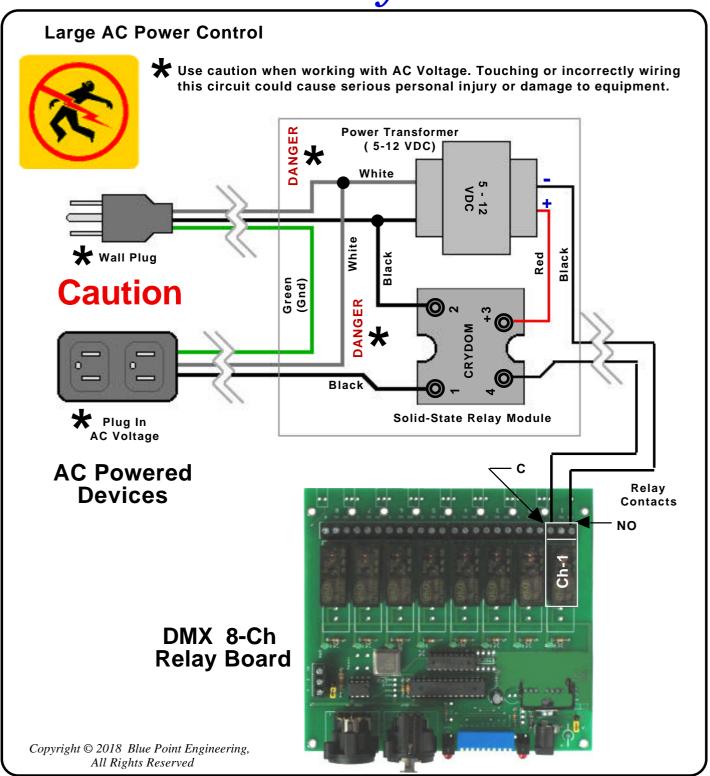








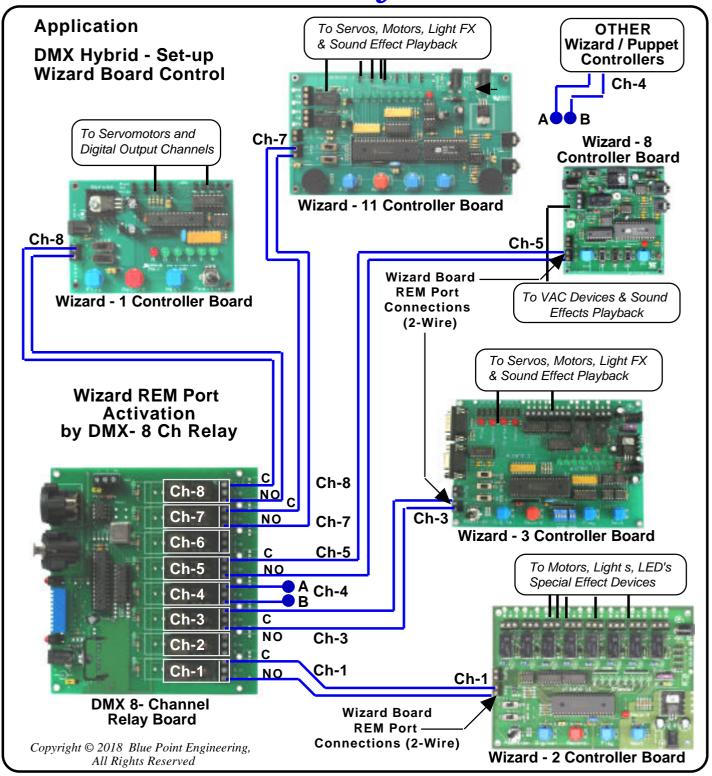
















Pointing the Way to Solutions!

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							Rela	ay -7		Relay -7			
-				1			Rela	ay -6		Relay -6			
							Rela	ay -5		Relay -5			
							Rela	ay -4		Relay -4			
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					↓ 1 2	2 3 4	4 5	6 7	8 9 10		SW-4		<u> </u>
				_	ON	Swite					<i>SW-5</i> <i>SW-6</i>		
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88	R7	R6	R5	R4	R3	R2	R1	В	Binary		SW-9 SW-10		
								=					
										Addres	ssing	DMX	Binary