



WD1564

Version 3.2 -2018

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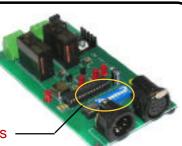
DMX 2-Channel Relay Board

Overview

A two-channel DMX relay switch for switching loads up to 10A at 240V AC per channel.

The DMX switch operates on the standard DMX512 bus and requires 1-2 DMX channels for operation.

Relays can operate Independently or be set as Flip-Flop Relays The DMX address can be set between 1 and 512.



Setup

Address / J1 Switches

Connections

The DMX Switch (2-Ch Relay) board requires a 12V DC supply at 500 mAmps. (via 2.1mm socket, center pin positive or wire terminal block positive (+) and minus (-) connections.) Connect the relay board to the DMX network using 5-pin XLR connectors. (Input and Feed through) Connect the loads / devices to the relevant volt-free relay outputs 1-2. (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 required base address using the DIP switches 1 through 9. Add-up the values where the switch is set to the ON positions. The base address is read continuously.

Set the base address of Relay No. 1 as follows: Determine the start address value to be used for the DMX 2 Ch Relay board. (See DMX Value table for values and switch ON setting) Switch ON the DIP switches for the address value selected to the **ON** position. Example: DIP switches 5 = (16) and 6 = (32) set to **ON** position, the base address for the DMX 2 Ch Relay board is now 16 + 32 = 48, this setting is used to determine the starting address output of the first Relay. Address 48 is the base address for Relay No. 1. The address of Relay No. 2 is the base address of Relay 1 plus 1 for Relay 2. Example: Base = 49 (Relay No. 1) Relay No 2 is 49 (48 + 1 = 49)

Relay Control (JP1 switch setting (Byte)

The relays on-board can be set as two different modes, by setting J1 switch ON or in the OFF position.

2-Individual Relay Control

J1 switch OFF = normally relay mode, operates from 2-DMX channels with individual relay

Relay-1	DMX CH-1 Value	Relay-2	DMX CH-2 Value
Status	224 - 255 = ON 223 - 0 = OFF	Status	224 - 255 = ON 223 - 0 = OFF

2-Relay Flip / Flop Relay Control

J1 switch **ON** = relays are interconnected and operate from **1-DMX channel**. (Relays Flip-Flop Mode)

DMX CH1 Value	Relay-1 Status	Relay-2 Status
Less than 80 Between 80 and 160 Greater than 160	OFF OFF	OFF OFF ON

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 2-Ch DMX relay board.

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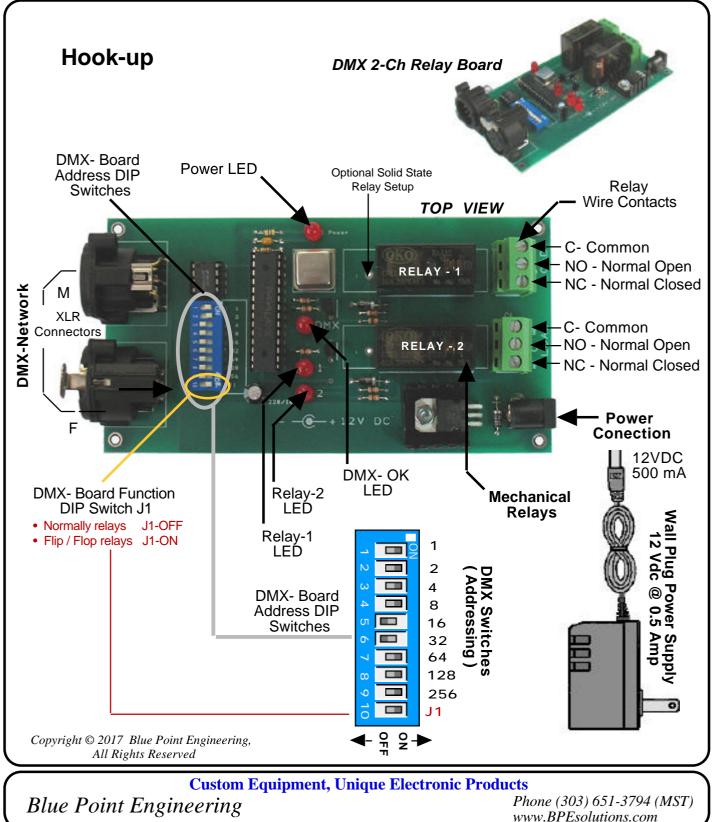
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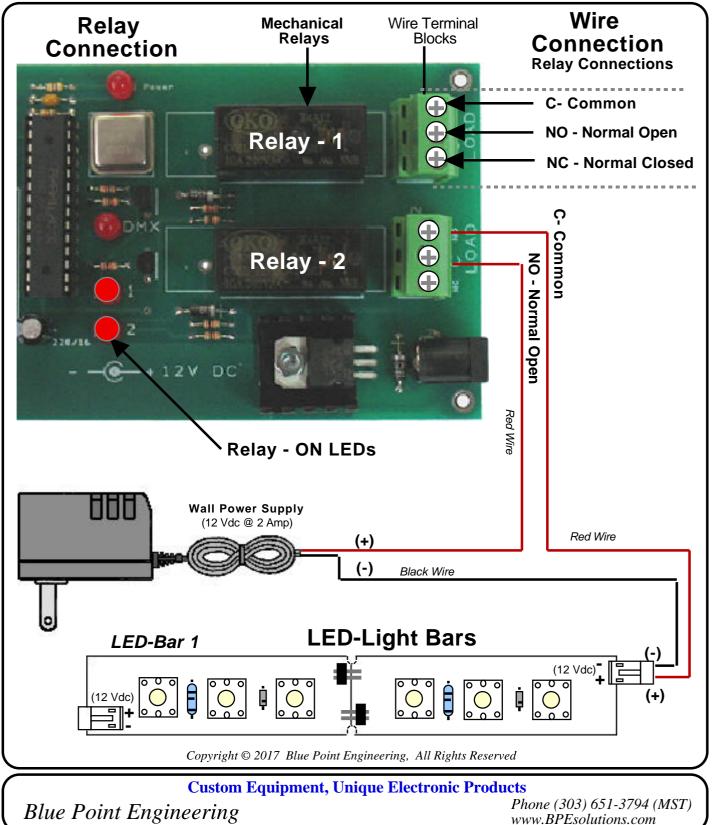
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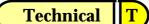




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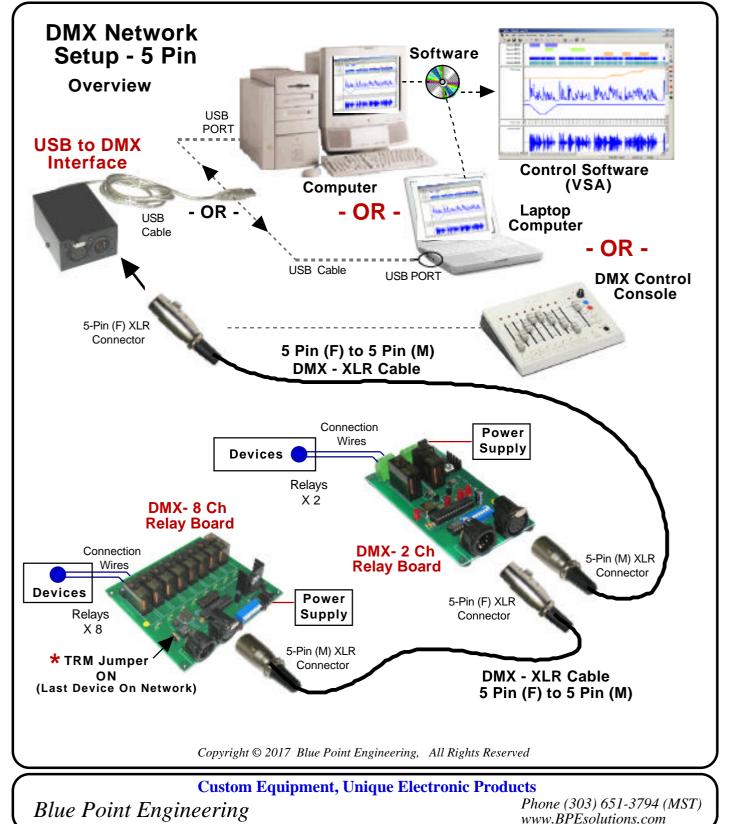




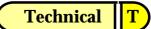


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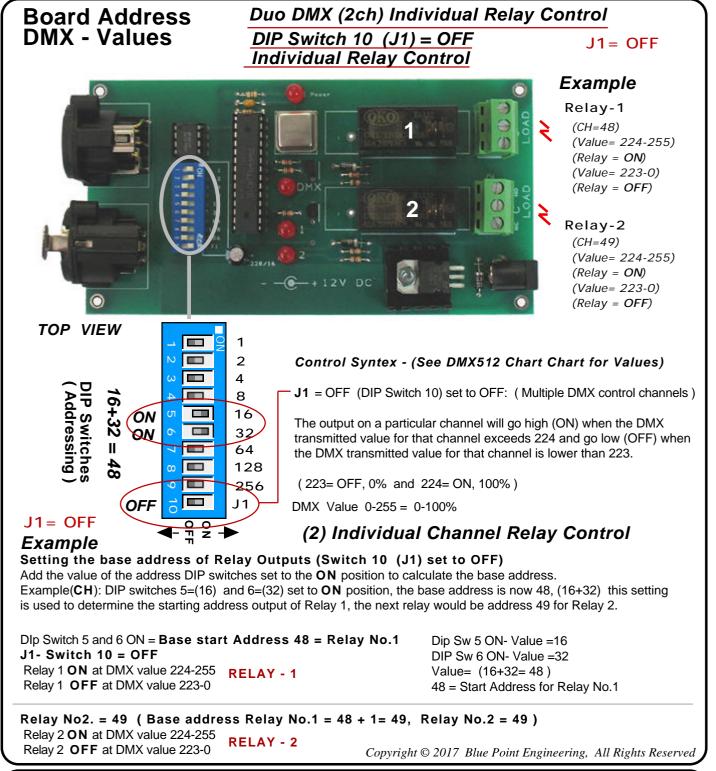






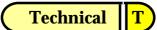
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DMX 2-Channel Relay Board



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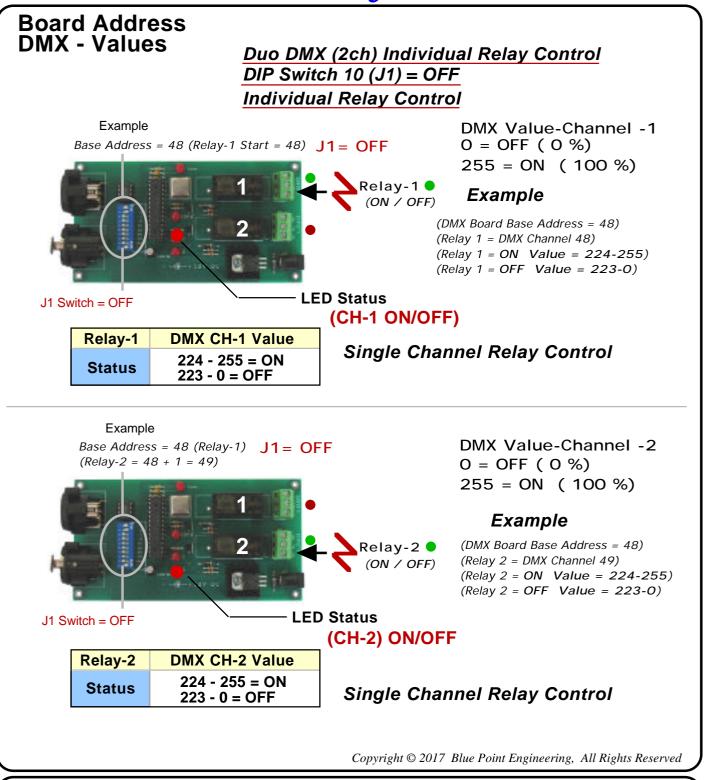




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DMX 2-Channel Relay Board



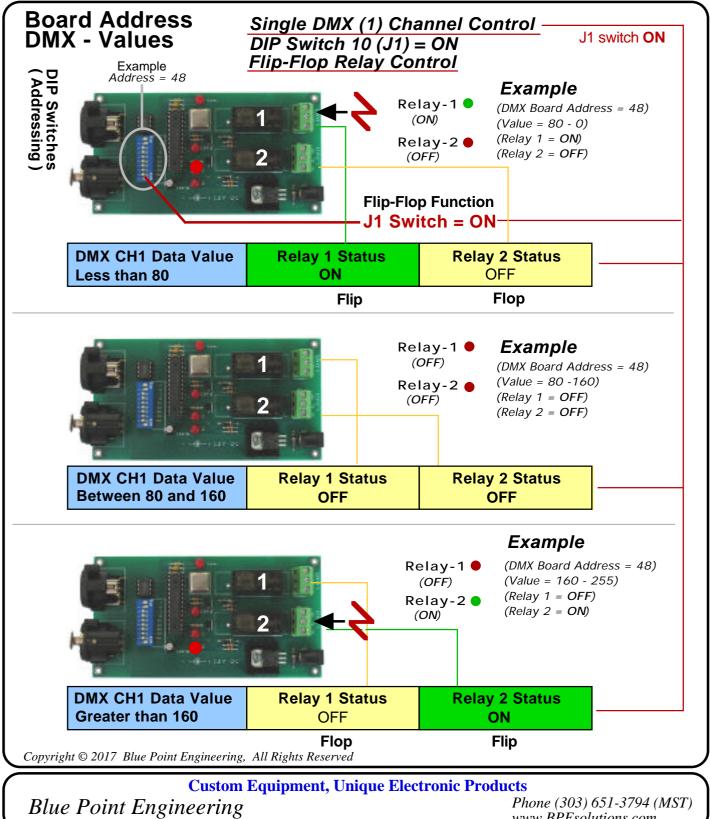
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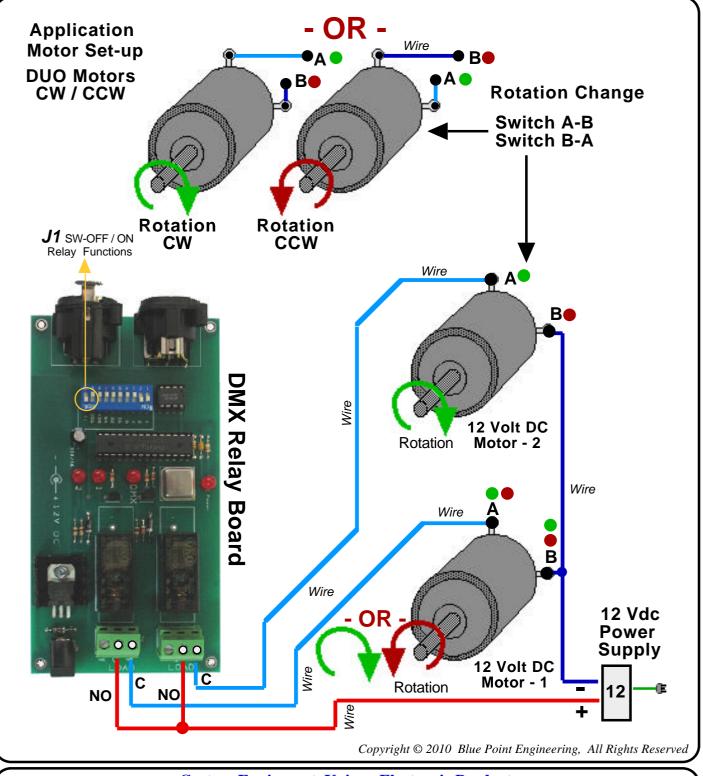


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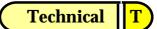


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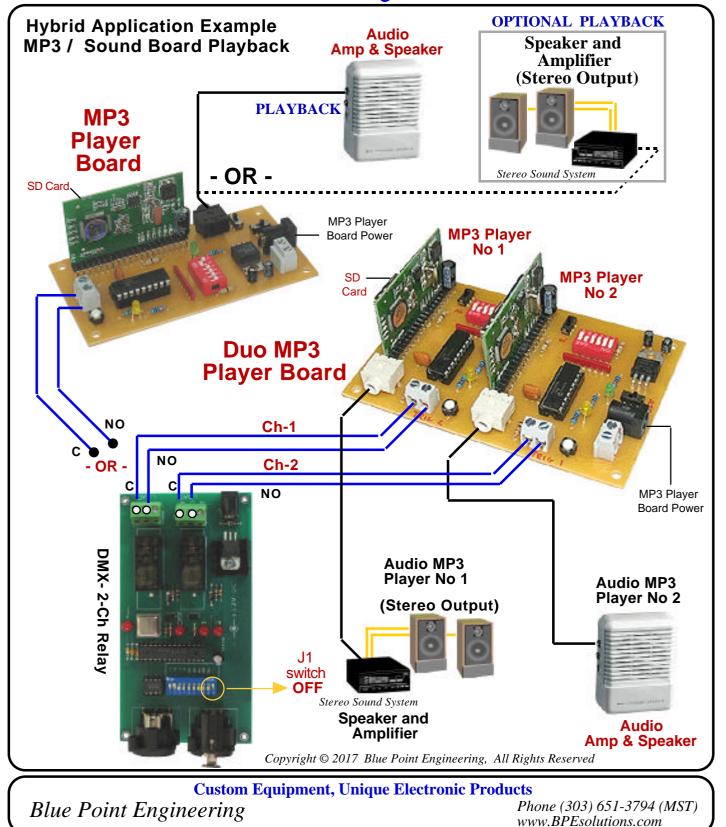
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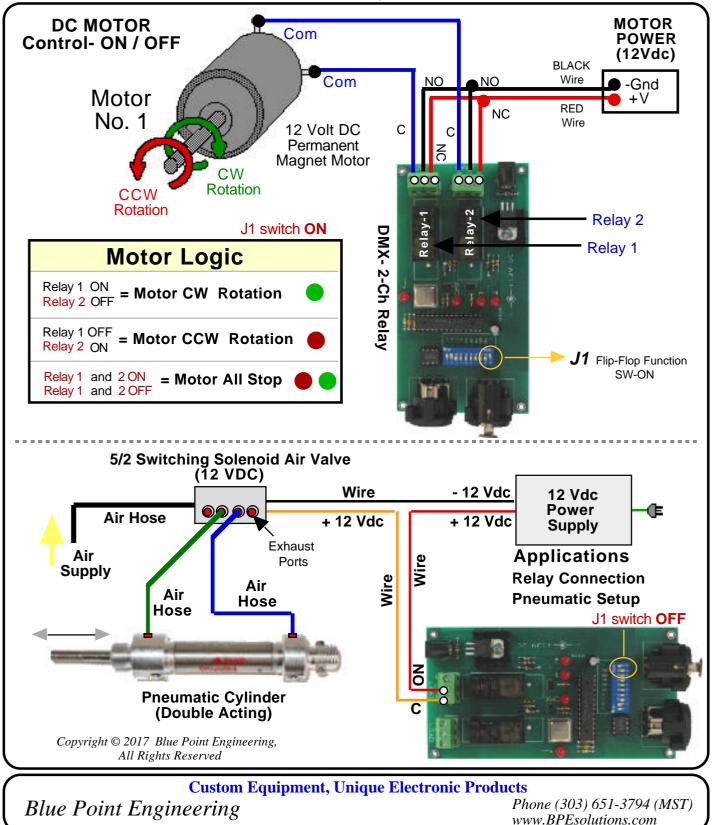
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DMX 2-Channel Relay Board

Notes / Work Sheet: DMX RELAY BOARD NO: DMX RELAY BOARD Application: Output Application Relay -1 Relay -2 **J1** Single or Flip-Flop Function Addressing 1 1 = Relay ON 2 0 = Relay OFF 4 8 SW-1 16 **SW-2** 6 32 Addressing SW-3 64 SW-4 128 SW-5 256 SW-6 J1 SW-7 **SW-8** OFF ON SW-9 SW-10 .]1 Addressing DMX Value Copyright © 2017 Blue Point Engineering, All Rights Reserved

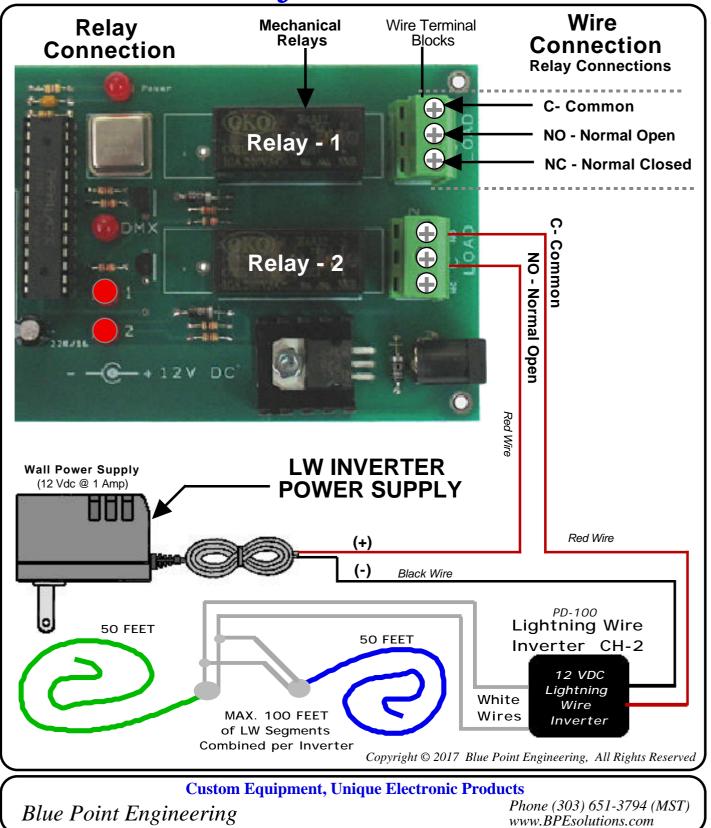
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DMX 2-Ch Relay Board to LW Inverter



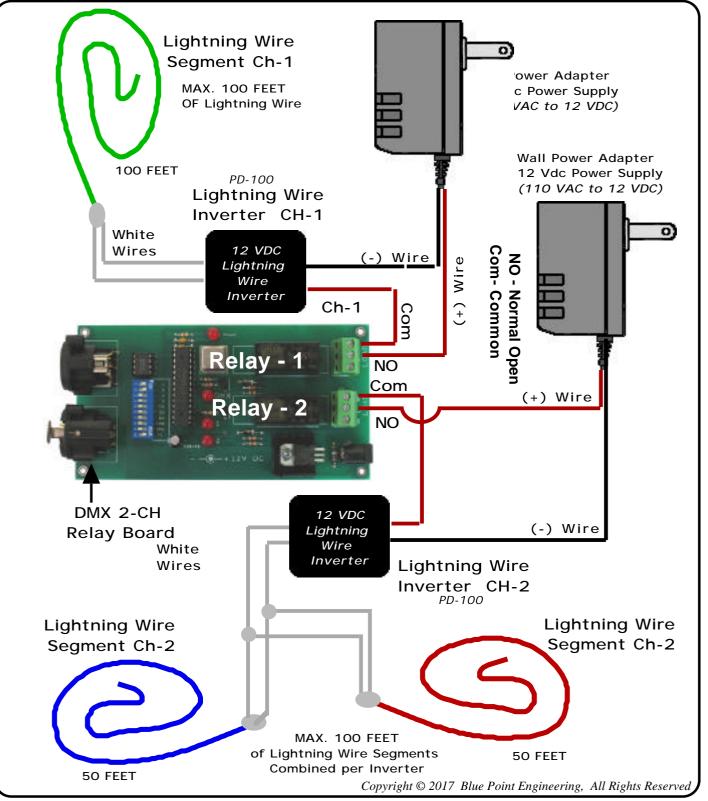




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Lighting Wire Segment Connections

Lightning Wire





DMX 2-Channel Relay Board

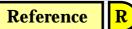


Chart A - US Standard DMX 512

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

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DMX Address Chart Cont.					
Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches	
261 = 1, 3, 9 262 = 2, 3, 9 263 = 1, 2, 3, 9 264 = 4, 9 265 = 1, 4, 9 266 = 2, 4, 9 266 = 2, 4, 9 267 = 1, 2, 4, 9 268 = 3, 4, 9	322 = 2, 7, 9 323 = 1, 2, 7, 9 324 = 3, 7, 9 325 = 1, 3, 7, 9 326 = 2, 3, 7, 9 327 = 1, 2, 3, 7, 9 328 = 4, 7, 9 329 = 1, 4, 7, 9	383 = 1, 2, 3, 4, 5, 6, 7, 9 384 = 8, 9 385 = 1, 8, 9 386 = 2, 8, 9 387 = 1, 2, 8, 9 388 = 3, 8, 9 389 = 1, 3, 8, 9 390 = 2, 3, 8, 9	444 = 3, 4, 5, 6, 8, 9 445 = 1, 3, 4, 5, 6, 8, 9 446 = 2, 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	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	
$\begin{array}{c} 269 = 1, 3, 4, 9\\ 270 = 2, 3, 4, 9\\ 271 = 1, 2, 3, 4, 9\\ 272 = 5, 9\\ 273 = 1, 5, 9\\ 274 = 2, 5, 9\\ 275 = 1, 2, 5, 9\\ 275 = 1, 2, 5, 9\\ 276 = 3, 5, 9\\ 277 = 1, 3, 5, 9\\ 277 = 1, 3, 5, 9\\ 278 = 2, 3, 5, 9\\ 279 = 1, 2, 3, 5, 9\\ 280 = 4, 5, 9\\ 281 = 1, 4, 5, 9\\ 281 = 1, 4, 5, 9\\ 282 = 2, 4, 5, 9\\ 283 = 1, 2, 4, 5, 9\\ 284 = 3, 4, 5, 9\\ 285 = 1, 3, 4, 5, 9\\ 286 = 2, 3, 4, 5, 9\\ 287 = 1, 2, 3, 4, 5, 9\\ 288 = 6, 9\\ 289 = 1, 6, 9\\ 290 = 2, 6, 9\\ 291 = 1, 2, 3, 4, 5, 9\\ 291 = 2, 6, 9\\ 291 = 2, 6, 9\\ 291 = 1, 2, 3, 4, 5, 9\\ 291 = 2, 6, 9\\ 291 = 2, 6, 9\\ 291 = 2, 6, 9\\ 291 = 1, 2, 3, 4, 5, 9\\ 291 = 2, 6,$	$\begin{array}{r} 330 = 2, 4, 7, 9\\ 331 = 1, 2, 4, 7, 9\\ 332 = 3, 4, 7, 9\\ 333 = 1, 3, 4, 7, 9\\ 333 = 1, 3, 4, 7, 9\\ 334 = 2, 3, 4, 7, 9\\ 335 = 1, 2, 3, 4, 7, 9\\ 335 = 1, 2, 3, 4, 7, 9\\ 336 = 5, 7, 9\\ 337 = 1, 5, 7, 9\\ 338 = 2, 5, 7, 9\\ 339 = 1, 2, 5, 7, 9\\ 340 = 3, 5, 7, 9\\ 340 = 3, 5, 7, 9\\ 341 = 1, 3, 5, 7, 9\\ 341 = 1, 3, 5, 7, 9\\ 342 = 2, 3, 5, 7, 9\\ 342 = 2, 3, 5, 7, 9\\ 344 = 4, 5, 7, 9\\ 344 = 4, 5, 7, 9\\ 345 = 1, 4, 5, 7, 9\\ 346 = 2, 4, 5, 7, 9\\ 347 = 1, 2, 4, 5, 7, 9\\ 348 = 3, 4, 5, 7, 9\\ 350 = 2, 3, 4, 5, 7, 9\\ 351 = 1, 2, 3, 4, 5, 7, 9\end{array}$	391 = 1, 2, 3, 8, 9 $392 = 4, 8, 9$ $393 = 1, 4, 8, 9$ $394 = 2, 4, 8, 9$ $395 = 1, 2, 4, 8, 9$ $395 = 1, 2, 4, 8, 9$ $396 = 3, 4, 8, 9$ $397 = 1, 3, 4, 8, 9$ $397 = 1, 3, 4, 8, 9$ $398 = 2, 3, 4, 8, 9$ $399 = 1, 2, 3, 4, 8, 9$ $400 = 5, 8, 9$ $401 = 1, 5, 8, 9$ $402 = 2, 5, 8, 9$ $403 = 1, 2, 5, 8, 9$ $404 = 3, 5, 8, 9$ $405 = 1, 3, 5, 8, 9$ $406 = 2, 3, 5, 8, 9$ $406 = 2, 3, 5, 8, 9$ $406 = 2, 3, 5, 8, 9$ $407 = 1, 2, 3, 5, 8, 9$ $408 = 4, 5, 8, 9$ $409 = 1, 4, 5, 8, 9$ $410 = 2, 4, 5, 8, 9$ $411 = 1, 2, 4, 5, 8, 9$ $412 = 3, 4, 5, 8, 9$	452 = 3, 7, 8, 9 $453 = 1, 3, 7, 8, 9$ $453 = 1, 2, 3, 7, 8, 9$ $455 = 1, 2, 3, 7, 8, 9$ $455 = 1, 2, 3, 7, 8, 9$ $455 = 1, 2, 3, 7, 8, 9$ $455 = 1, 2, 3, 7, 8, 9$ $455 = 1, 4, 7, 8, 9$ $459 = 1, 2, 4, 7, 8, 9$ $460 = 3, 4, 7, 8, 9$ $461 = 1, 3, 4, 7, 8, 9$ $462 = 2, 3, 4, 7, 8, 9$ $463 = 1, 2, 3, 4, 7, 8, 9$ $465 = 1, 5, 7, 8, 9$ $466 = 2, 5, 7, 8, 9$ $466 = 2, 5, 7, 8, 9$ $466 = 2, 5, 7, 8, 9$ $467 = 1, 2, 5, 7, 8, 9$ $469 = 1, 3, 5, 7, 8, 9$ $470 = 2, 3, 5, 7, 8, 9$ $471 = 1, 2, 3, 5, 7, 8, 9$ $472 = 4, 5, 7, 8, 9$	xample 2+4+32+128+256= 422 1- Single or Flip / Flop Relay Function Address 422 ddress = 422 witch ON = 2, 3, 6, 8, 9	
$\begin{array}{l} 291 = 1, 2, 6, 9\\ 292 = 3, 6, 9\\ 293 = 1, 3, 6, 9\\ 293 = 1, 3, 6, 9\\ 294 = 2, 3, 6, 9\\ 295 = 1, 2, 3, 6, 9\\ 295 = 1, 2, 3, 6, 9\\ 296 = 4, 6, 9\\ 297 = 1, 4, 6, 9\\ 298 = 2, 4, 6, 9\\ 298 = 2, 4, 6, 9\\ 300 = 3, 4, 6, 9\\ 300 = 3, 4, 6, 9\\ 301 = 1, 3, 4, 6, 9\\ 302 = 2, 3, 4, 6, 9\\ 303 = 1, 2, 3, 4, 6, 9\\ 303 = 1, 2, 3, 4, 6, 9\\ 303 = 1, 2, 3, 4, 6, 9\\ 304 = 5, 6, 9\\ 305 = 1, 5, 6, 9\\ 305 = 1, 5, 6, 9\\ 305 = 1, 5, 6, 9\\ 306 = 2, 5, 6, 9\\ 306 = 2, 5, 6, 9\\ 307 = 1, 2, 5, 6, 9\\ 308 = 3, 5, 6, 9\\ 309 = 1, 3, 5, 6, 9\\ 309 = 1, 3, 5, 6, 9\\ 311 = 1, 2, 3, 5, 6, 9\\ 311 = 1, 2, 3, 5, 6, 9\\ 312 = 4, 5, 6, 9\\ 313 = 1, 4, 5, 6, 9\\ 315 = 1, 2, 4, 5, 6, 9\\ 315 = 1, 2, 4, 5, 6, 9\\ 316 = 3, 4, 5, 6, 9\\ 317 = 1, 3, 4, 5, 6, 9\\ 318 = 2, 3, 4, 5, 6, 9\\ 329 = 1, 2, 3, 4, 5, 6, 9\\ 320 = 7, 9\\ 321 = 1, 7, 9\end{array}$	$\begin{array}{c} 352 = 6, 7, 9\\ 353 = 1, 6, 7, 9\\ 353 = 1, 2, 6, 7, 9\\ 355 = 1, 2, 6, 7, 9\\ 355 = 1, 2, 6, 7, 9\\ 355 = 1, 2, 6, 7, 9\\ 357 = 1, 3, 6, 7, 9\\ 357 = 1, 3, 6, 7, 9\\ 359 = 1, 2, 3, 6, 7, 9\\ 359 = 1, 2, 3, 6, 7, 9\\ 360 = 4, 6, 7, 9\\ 361 = 1, 4, 6, 7, 9\\ 361 = 1, 4, 6, 7, 9\\ 362 = 2, 4, 6, 7, 9\\ 363 = 1, 2, 4, 6, 7, 9\\ 363 = 1, 2, 4, 6, 7, 9\\ 364 = 3, 4, 6, 7, 9\\ 365 = 1, 3, 4, 6, 7, 9\\ 365 = 1, 3, 4, 6, 7, 9\\ 366 = 2, 3, 4, 6, 7, 9\\ 366 = 2, 3, 4, 6, 7, 9\\ 366 = 2, 3, 4, 6, 7, 9\\ 366 = 2, 3, 4, 6, 7, 9\\ 366 = 2, 3, 4, 6, 7, 9\\ 368 = 5, 6, 7, 9\\ 368 = 5, 6, 7, 9\\ 369 = 1, 5, 6, 7, 9\\ 370 = 2, 5, 6, 7, 9\\ 370 = 2, 5, 6, 7, 9\\ 371 = 1, 2, 5, 6, 7, 9\\ 372 = 3, 5, 6, 7, 9\\ 375 = 1, 2, 3, 5, 6, 7, 9\\ 376 = 4, 5, 6, 7, 9\\ 377 = 1, 4, 5, 6, 7, 9\\ 379 = 1, 2, 4, 5, 6, 7, 9\\ 380 = 3, 4, 5, 6, 7, 9\\ 381 = 1, 3, 4, 5, 6, 7, 9\\ 382 = 2, 3, 4, 5, 6, 7, 9\\ 382 =$	$\begin{array}{l} 413 = 1, 3, 4, 5, 8, 9\\ 414 = 2, 3, 4, 5, 8, 9\\ 415 = 1, 2, 3, 4, 5, 8, 9\\ 415 = 1, 2, 3, 4, 5, 8, 9\\ 415 = 1, 2, 3, 4, 5, 8, 9\\ 416 = 6, 8, 9\\ 417 = 1, 6, 8, 9\\ 418 = 2, 6, 8, 9\\ 419 = 1, 2, 6, 8, 9\\ 420 = 3, 6, 8, 9\\ 420 = 3, 6, 8, 9\\ 420 = 3, 6, 8, 9\\ 421 = 1, 3, 6, 8, 9\\ 422 = 2, 3, 6, 8, 9\\ 422 = 2, 3, 6, 8, 9\\ 423 = 1, 2, 3, 6, 8, 9\\ 423 = 1, 2, 3, 6, 8, 9\\ 424 = 4, 6, 8, 9\\ 425 = 1, 4, 6, 8, 9\\ 425 = 1, 4, 6, 8, 9\\ 426 = 2, 4, 6, 8, 9\\ 426 = 2, 4, 6, 8, 9\\ 426 = 2, 4, 6, 8, 9\\ 428 = 3, 4, 6, 8, 9\\ 428 = 3, 4, 6, 8, 9\\ 430 = 2, 3, 4, 6, 8, 9\\ 431 = 1, 2, 3, 4, 6, 8, 9\\ 432 = 5, 6, 8, 9\\ 433 = 1, 5, 6, 8, 9\\ 434 = 2, 5, 6, 8, 9\\ 435 = 1, 2, 5, 6, 8, 9\\ 436 = 3, 5, 6, 8, 9\\ 437 = 1, 3, 5, 6, 8, 9\\ 438 = 2, 3, 5, 6, 8, 9\\ 439 = 1, 2, 3, 5, 6, 8, 9\\ 441 = 1, 4, 5, 6, 8, 9\\ 442 = 2, 4, 5, 6, 8, 9\\ 443 = 1, 2, 4, 5, 6, 8, 9\\ 444 = 4, 5, 6,$	$\begin{array}{c} 474 = 2, 4, 5, 7, 8, 9\\ 475 = 1, 2, 4, 5, 7, 8, 9\\ 476 = 3, 4, 5, 7, 8, 9\\ 477 = 1, 3, 4, 5, 7, 8, 9\\ 478 = 2, 3, 4, 5, 7, 8, 9\\ 478 = 2, 3, 4, 5, 7, 8, 9\\ 479 = 1, 2, 3, 4, 5, 7, 8, 9\\ 480 = 6, 7, 8, 9\\ 481 = 1, 6, 7, 8, 9\\ 482 = 2, 6, 7, 8, 9\\ 483 = 1, 2, 6, 7, 8, 9\\ 483 = 1, 2, 6, 7, 8, 9\\ 483 = 1, 2, 6, 7, 8, 9\\ 485 = 1, 3, 6, 7, 8, 9\\ 485 = 1, 3, 6, 7, 8, 9\\ 485 = 1, 3, 6, 7, 8, 9\\ 486 = 2, 3, 6, 7, 8, 9\\ 486 = 2, 3, 6, 7, 8, 9\\ 486 = 2, 3, 6, 7, 8, 9\\ 487 = 1, 2, 3, 6, 7, 8, 9\\ 489 = 1, 4, 6, 7, 8, 9\\ 489 = 1, 4, 6, 7, 8, 9\\ 490 = 2, 4, 6, 7, 8, 9\\ 491 = 1, 2, 4, 6, 7, 8, 9\\ 492 = 3, 4, 6, 7, 8, 9\\ 493 = 1, 3, 4, 6, 7, 8, 9\\ 494 = 2, 3, 4, 6, 7, 8, 9\\ 495 = 1, 2, 3, 4, 6, 7, 8, 9\\ 496 = 5, 6, 7, 8, 9\\ 496 = 5, 6, 7, 8, 9\\ 497 = 1, 5, 6, 7, 8, 9\\ 499 = 1, 2, 5, 6, 7, 8, 9\\ 500 = 3, 5, 6, 7, 8, 9\\ 501 = 1, 3, 5, 6, 7, 8, 9\\ 502 = 2, 3, 5, 6, 7, 8, 9\\ 504 = 4, 5, 6, 7, 8,$	DIP Switches US Standard DMX 512 Example (Addressing) (Addressing) Switch Value → ¬ ∧ + ∞ 6 % 4 % 6 7 % 5 1 3 1 - Single o Switch Position → □ □ □ □ □ □ □ □ □ □	