

# Декодер DMX-54W-350mA

## Summarize:

Hi-power LED dimmable driver is the real innovation to the LED Technology, which is designed and applied to optimize the performance of LED.

Perfect dimming (0-100%) is achieved via an on board DMX512 interface combined with PWM power control.

PxH3-350-54, it can be installed to the place far away from the light.

## **Features:**

- 3 Fully Addressable constant current outputs
- Digital Dimming level from 0 100 %
- Integrated DMX512 compliant control interface
- LED temperature compensation feedback
- Energy efficient switch mode power electronics
- Short and open circuit protected
- Long Life (> 50 000 hours)
- High quality rugged construction
- Meets lighting approbation requirements ( CE )
- Compliant with LuxeonTM Power Light Sources
- Can be remote mounted from LEDs ~ 30 meters

#### **Electric Parameters:**

Inpt Voltage, Vin:  $100 \sim 240 \text{Vac}$ Frequency, f: 50 / 60 HzInput Power, Pin: 2.7-56 WPower Factor, Pf:  $\leq 0.85$ Power, 9:  $\leq 85\%$ Standby Wastage, Ploss:  $\leq 3 \text{W}$ 

Power Output, Poch: 3- 18W/Channel Current Output, Ioch: 350mA±3%/Ch Voltage output, Voch: 70Vdcmax/Ch

## **Control Parameters:**

Dimming Control, DMX: DMX512
Dimming Mode: PWM

Address Switch, Nad: 1 – 505 via DIP switch

Channle No.1: = nChannel No.2: = n+1Channel No.3: = n+2

Special function address: 0 = White Color

511 = looped self-check 510 = Channel No.1 100% 509 = Channel No.2 100% 508 = Channel No.3 100% 507 = All of the channels 100%

#### Remark:

- 1. DMX line end in the turnning off the channel#10 of address switch.
- 2. Output resisted static3.0KV/50Hz
- 3. It is able to programme to control a good many of the other devices need to be controlled alone.



# **Typical Applications:**

- RGB Colour Mixing
- Floodlighting
- Cove & Cornice Lighting
- Signalling
- Signage
- Fibre
- Optic systems
- Architectural Lighting

## **Environmental:**

Work Temp., Top:  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$  Storage Temp., Tst:  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ 

Case Temperature, Tr: ≤35°C Relative Humidity, RH: 80% Lifetime (> 50,000 hours), L50k: 5%

## **Mechanical Dimensions:**

Construction: Mild steel with 1.0 mm zintec coated; IP20

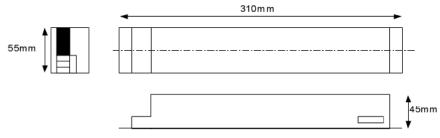
AC Input: Wieland 3 Pole GST18 Series Connector (1.0m cable provided)

DMX Input: RJ45 interface

LED Output: MOLEX Micro Fit 3.0 syestem(femeal)

Mounting: M3 Screw

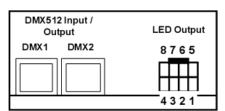
Machine dimensions: 310mm\*55mm\*45mm(length\*width\*height)



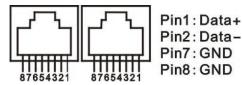
#### Notes:

DMX-54W-250mA is available in a range of options from stand alone remote ballasts.

# **Driver Wiring Diagram:**



DMX / RJ45 LED Output
DMX / RJ45 Interface 1: CH1 (+)
Pin 1 : Data + 2: CH2 (+)
Pin 2 : Data - 3: CH3 (+)
Pin 7 : Common 4: NC
Pin 8 : Common 5: CH1 (-)
6: CH2 (-)
7: CH3 (-)
8: NC

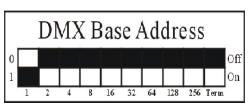


White / Orange : data +

Orange : data -

White/brown: common signal Brown: common signal

## **DMX Address:**

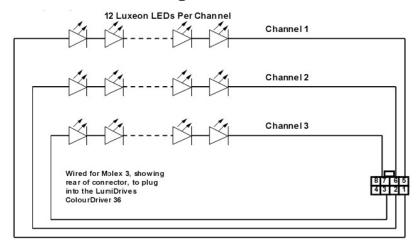


For example – address n= 1 channel. Liner end in the resistances off.

## Warnning.

Unexpected connecting with the Non-DMX512 device will damage the driver (e.g Ethernet Hub)

# **LED** connection diagram:



- Please make sure the groundwire connect to the earth to remove the static!
- If all of the 3 channels output are fully loaded, please make sure the proper ventilation are provided when the driver is working all time.

# **DMX Address Setting:**

DIP SWITCH	DMX ADDR						
123456789	NUMBER	123456789	NUMBER	123456789	NUMBER	123456789	NUMBER
100000000	001	001101000	044	111010100	087	010000010	130
010000000	002	101101000	045	000110100	088	110000010	131
110000000	003	011101000	046	100110100	089	001000010	132
001000000	004	111101000	047	010110100	090	101000010	133
101000000	005	000011000	048	110110100	091	011000010	134
011000000	006	100011000	049	001110100	092	111000010	135
111000000	007	010011000	050	101110100	093	000100010	136
000100000	008	110011000	051	011110100	094	100100010	137
100100000	009	001011000	052	111110100	095	010100010	138
010100000	010	101011000	053	000001100	096	110100010	139
110100000	011	011011000	054	100001100	097	001100010	140
001100000	012	111011000	055	010001100	098	101100010	141
101100000	013	000111000	056	110001100	099	011100010	142
011100000	014	100111000	057	001001100	100	111100010	143
111100000	015	010111000	058	101001100	101	000010010	144
000010000	016	110111000	059	011001100	102	100010010	145
100010000	017	001111000	060	111001100	103	010010010	146
010010000	018	101111000	061	000101100	104	110010010	147
110010000	019	011111000	062	100101100	105	001010010	148
001010000	020	111111000	063	010101100	106	101010010	149
101010000	021	000000100	064	110101100	107	011010010	150
011010000	022	100000100	065	001101100	108	111010010	151
111010000	023	010000100	066	101101100	109	000110010	152
000110000	024	110000100	067	011101100	110	100110010	153
100110000	025	001000100	068	111101100	111	010110010	154
010110000	026	101000100	069	000011100	112	110110010	155
110110000	027	011000100	070	100011100	113	001110010	156
001110000	028	111000100	071	010011100	114	101110010	157
101110000	029	000100100	072	110011100	115	011110010	158
011110000	030	100100100	073	001011100	116	111110010	159
111110000	031	010100100	074	101011100	117	000001010	160
000001000	032	110100100	075	011011100	118	100001010	161

100001000	033	001100100	076	111011100	119	010001010	162
010001000	034	101100100	077	000111100	120	110001010	163
110001000	035	011100100	078	100111100	121	001001010	164
001001000	036	111100100	079	010111100	122	101001010	165
101001000	037	000010100	080	110111100	123	011001010	166
011001000	038	100010100	081	001111100	124	111001010	167
111001000	039	010010100	082	101111100	125	000101010	168
000101000	040	110010100	083	011111100	126	100101010	169
100101000	041	001010100	084	111111100	127	010101010	170
010101000	042	101010100	085	000000010	128	110101010	171
110101000	043	011010100	086	100000010	129	001101010	172
101101010	173	000110110	216	110000001	259	011101001	302
011101010	174	100110110	217	001000001	260	111101001	303
111101010	175	010110110	218	101000001	261	000011001	304
000011010	176	110110110	219	011000001	262	100011001	305
100011010	177	001110110	220	111000001	263	010011001	306
010011010	178	101110110	221	000100001	264	110011001	307
110011010	179	011110110	222	100100001	265	001011001	308
001011010	180	111110110	223	010100001	266	101011001	309
101011010	181	000001110	224	110100001	267	011011001	310
011011010	182	100001110	225	001100001	268	111011001	311
111011010	183	010001110	226	101100001	269	000111001	312
000111010	184	110001110	227	011100001	270	100111001	313
100111010	185	001001110	228	111100001	271	010111001	314
010111010	186	101001110	229	000010001	272	110111001	315
110111010	187	011001110	230	100010001	273	001111001	316
001111010	188	111001110	231	010010001	274	101111001	317
101111010	189	000101110	232	110010001	275	011111001	318
011111010	190	100101110	233	001010001	276	111111001	319
111111010	191	010101110	234	101010001	277	000000101	320
000000110	192	110101110	235	011010001	278	100000101	321
100000110	193	001101110	236	111010001	279	010000101	322
010000110						010000101	
440000440	194	101101110	237	000110001	280	110000101	323
110000110	194 195	101101110 011101110	237 238	000110001 100110001			
110000110 001000110					280	110000101	323
	195	011101110	238	100110001	280 281	110000101 001000101	323 324
001000110	195 196	011101110 111101110	238 239	100110001 010110001	280 281 282	110000101 001000101 101000101	323 324 325
001000110 101000110	195 196 197	011101110 111101110 000011110	238 239 240	100110001 010110001 110110001	280 281 282 283	110000101 001000101 101000101 011000101	323 324 <b>325</b> 326
001000110 101000110 011000110	195 196 197 198	011101110 111101110 000011110 100011110	238 239 240 241	100110001 010110001 110110001 001110001	280 281 282 283 284	110000101 001000101 101000101 011000101 111000101	323 324 <b>325</b> 326 327
001000110 101000110 011000110 111000110	195 196 197 198 199	011101110 111101110 000011110 100011110 010011110	238 239 240 241 242	100110001 010110001 110110001 001110001 101110001	280 281 282 283 284 285	110000101 001000101 101000101 011000101 111000101 0001001	323 324 325 326 327 328
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