

FLEX NEON UDR8 BENDS UP/DOWN 0.8" ROUND LENS

24VDC INDOOR / OUTDOOR RGB, RGB+WHITE 5W | 6W

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 04.22.21



DESCRIPTION

UDR8 Flexible Neon Bends Up or Down with a 0.80" Round lens that can be surface or flush-mounted. Flex Neon offers superior color quality and performance while creating uniform illumination without pixelation. RGB (Red, Green, and Blue), RGB+W (Red, Green, Blue, plus White) Fine-tune the color and brightness independently using our CDMX1-RGBW touch controller. The **(W)** is an IP65 rated wet location fixture featuring watertight barrel connections. The **(S)** Seamless (for continuous, seamless runs), is rated for Indoor Damp Locations ONLY and uses class 2 bare wire connectors. Fixture includes a 5-year pro-rated warranty. Patent pending.

SPECIFICATIONS

Round Lens 0.8" x 0.8"

INPUT	5" wire leads, Remote 24VDC Power Supply (sold separately)
POWER CONSUMPTION	5 Watts per foot, 6 Watts per foot
COMPLIANCE	Class 2 Wet Listed with water-tight Barrel Connectors, Title 24, IP65. ETL/UL, RoHS
POWER SUPPLY	Color Changing (DMX) Power Supply 120/277VAC-24VDC, Sold Separately
ORDERING INCREMENTS	2.4" or 3"
MAX LENGTH	20ft at 5 watts, 15ft at 6 watts
MOUNTING	Clips included every 12"
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 years

CONTROLLER FOR RGB & RGB+W (SOLD SEPARATELY)

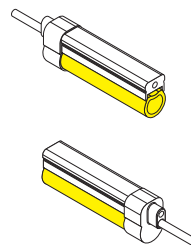
CDMX1-RGBW - Single zone DMX touch controller

CTP - Multiple zone DMX touch controller

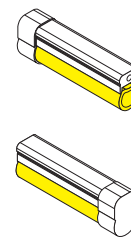
POWER SUPPLIES WITH DMX DRIVER (SOLD SEPARATELY)

Refer to pages 5-7

Wet Location Power End Cap

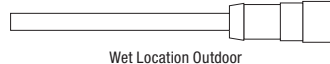


Wet Location End Cap with No Power



W

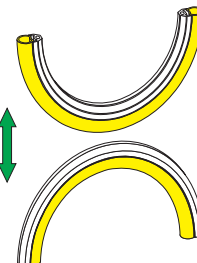
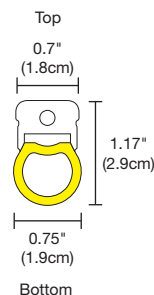
S



Wet Location Outdoor



Seamless Bare Wire Indoor suitable for Indoor Damp Locations



Bends Up or Down

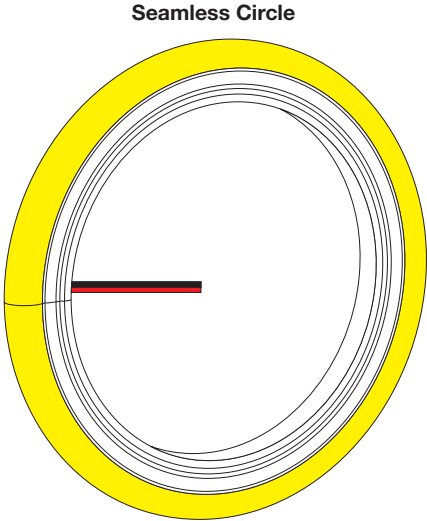
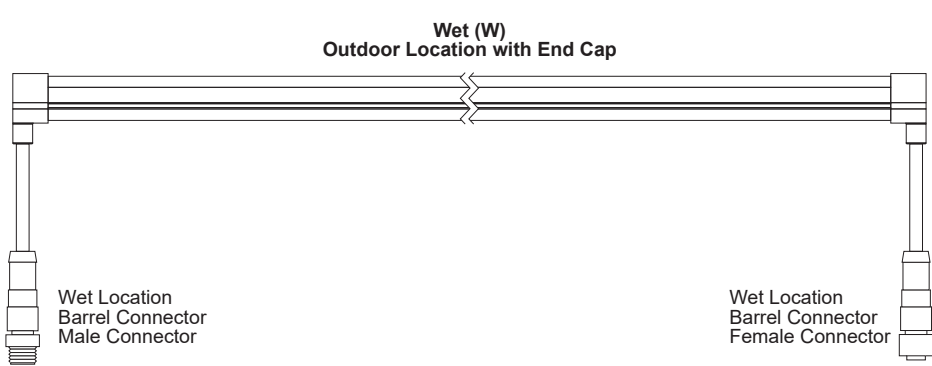
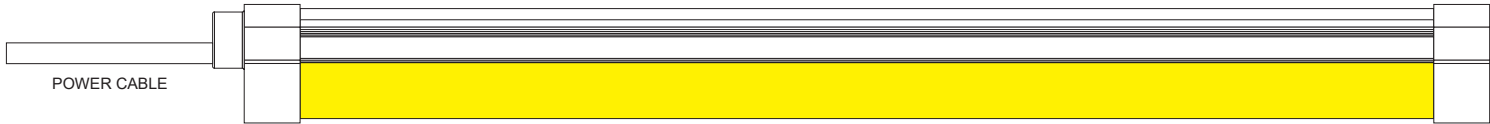
System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
FN	UDR8	5W	120	RGB	E	L	W
FN Flex Neon 24V	UDR8 Up or Down Bend, Round 0.8" x 0.8"	5W 4.4 watts per foot	6-240 (20ft max) 2.4" increments	RGB Red, Green and Blue (5 Watt Only)	T* Top Power Input Wire E* End Power Input Wire L Left Power Input Wire R* Right Power Input Wire B Bottom Power Input Wire	T* Top Wire Lead Out E End Wire Lead Out L Left Wire Lead Out R* Right Wire Lead Out B Bottom Wire Lead Out CA Cap at end, no feed through	S Seamless Indoor/Damp location bare wire leads Bottom and Left Feed Only W Outdoor wet location Barrel Connector cable leads
		6W 6.3 watts per foot	6-180 (15ft max) 3" increments	RGBW Red, Green, Blue and White (6 Watt Only)			

*Not available for Seamless indoor

PROJECT	FIXTURE TYPE	DATE
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Drawings: Flex Neon UDR8

Seamless Connectors are ideal for indoor projects that have multiple segments of Flex Neon but need to look like a continuous run/fixture, and are assembled in the factory – fixtures ready to use.



PROJECT		FIXTURE TYPE		DATE	
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FLEX NEON UDR8 BENDS UP/DOWN 0.8" ROUND LENS

24VDC INDOOR / OUTDOOR RGB, RGB+WHITE 5W | 6W

REV 04.22.21

LENGTH CHART Actual lengths for Flex Neon UDR8

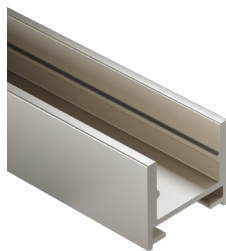
LENGTH CHART - RGB											
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.15	72	72.75	142	142.35	212	211.95	281	281.55	348	348.75
5	5.55	75	75.15	144	144.75	214	214.35	284	283.95	351	351.15
8	7.95	77	77.55	147	147.15	216	216.75	286	286.35	353	353.55
10	10.35	80	79.95	149	149.55	219	219.15	288	288.75	356	355.95
12	12.75	82	82.35	152	151.95	221	221.55	291	291.15	358	358.35
15	15.15	84	84.75	154	154.35	224	223.95	293	293.55	360	360.75
17	17.55	87	87.15	156	156.75	226	226.35	296	295.95	363	363.15
20	19.95	89	89.55	159	159.15	228	228.75	298	298.35	365	365.55
22	22.35	92	91.95	161	161.55	231	231.15	300	300.75	368	367.95
24	24.75	94	94.35	164	163.95	233	233.55	303	303.15	370	370.35
27	27.15	96	96.75	166	166.35	236	235.95	305	305.55	372	372.75
29	29.55	99	99.15	168	168.75	238	238.35	308	307.95	375	375.15
32	31.95	101	101.55	171	171.15	240	240.75	310	310.35	377	377.55
34	34.35	104	103.95	173	173.55	243	243.15	312	312.75	380	379.95
36	36.75	106	106.35	176	175.95	245	245.55	315	315.15	382	382.35
39	39.15	108	108.75	178	178.35	248	247.95	317	317.55	384	384.75
41	41.55	111	111.15	180	180.75	250	250.35	320	319.95	387	387.15
44	43.95	113	113.55	183	183.15	252	252.75	322	322.35	389	389.55
46	46.35	116	115.95	185	185.55	255	255.15	324	324.75	392	391.95
48	48.75	118	118.35	188	187.95	257	257.55	327	327.15	394	394.35
51	51.15	120	120.75	190	190.35	260	259.95	329	329.55	396	396.75
53	53.55	123	123.15	192	192.75	262	262.35	332	331.95	399	399.15
56	55.95	125	125.55	195	195.15	264	264.75	334	334.35	401	401.55
58	58.35	128	127.95	197	197.55	267	267.15	336	336.75	404	403.95
60	60.75	130	130.35	200	199.95	269	269.55	339	339.15	406	406.35
63	63.15	132	132.75	202	202.35	272	271.95	341	341.55	408	408.75
65	65.55	135	135.15	204	204.75	274	274.35	344	343.95	411	411.15
68	67.95	137	137.55	207	207.15	276	276.75	346	346.35	413	413.55
70	70.35	140	139.95	209	209.55	279	279.15			480	480.75

LENGTH CHART - RGBW											
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.75	75	75.75	138	138.75	207	207.75	276	276.75	345	345.75
6	6.75	78	78.75	141	141.75	210	210.75	279	279.75	348	348.75
9	9.75	81	81.75	144	144.75	213	213.75	282	282.75	351	351.75
12	12.75	84	84.75	147	147.75	216	216.75	285	285.75	354	354.75
15	15.75	87	87.75	150	150.75	219	219.75	288	288.75	357	357.75
18	18.75	90	90.75	153	153.75	222	222.75	291	291.75	360	360.75
21	21.75	93	93.75	156	156.75	225	225.75	294	294.75	363	363.75
24	24.75	96	96.75	159	159.75	228	228.75	297	297.75	366	366.75
27	27.75	99	99.75	162	162.75	231	231.75	300	300.75	369	369.75
30	30.75	102	102.75	165	165.75	234	234.75	303	303.75	372	372.75
33	33.75	105	105.75	168	168.75	237	237.75	306	306.75	375	375.75
36	36.75	108	108.75	171	171.75	240	240.75	309	309.75	378	378.75
39	39.75	111	111.75	174	174.75	243	243.75	312	312.75	381	381.75
42	42.75	114	114.75	177	177.75	246	246.75	315	315.75	384	384.75
45	45.75	117	117.75	180	180.75	249	249.75	318	318.75	387	387.75
48	48.75	120	120.75	183	183.75	252	252.75	321	321.75	390	390.75
51	51.75	123	123.75	186	186.75	255	255.75	324	324.75	393	393.75
54	54.75	126	126.75	189	189.75	258	258.75	327	327.75	396	396.75
57	57.75	129	129.75	192	192.75	261	261.75	330	330.75	399	399.75
60	60.75	132	132.75	195	195.75	264	264.75	333	333.75	402	402.75
63	63.75	135	135.75	198	198.75	267	267.75	336	336.75	405	405.75
66	66.75			201	201.75	270	270.75	339	339.75	408	408.75
69	69.75			204	204.75	273	273.75	342	342.75	411	411.75
72	72.75									480	480.75

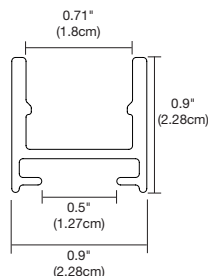
PROJECT		FIXTURE TYPE		DATE	
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FLEX NEON UDR8 OUTDOOR ACCESSORIES AND J-BOXES

24VDC INDOOR / OUTDOOR RGB, RGB+WHITE 5W | 6W



EXT.7 Light Channel



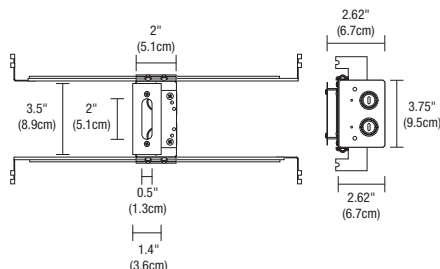
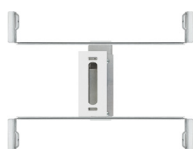
INTERIOR OR EXTERIOR CHANNEL

Interior or exterior channel features an aluminum extrusion with mounting clips included every 2ft. Available in length up to 10ft long and may be cut at the job site.

Product	Length	Finish
EXT.7	10FT	SA
EXT.7 Extrusion 0.7" Wide	4FT 4 Feet 5FT 5 Feet 8FT 8 Feet 10FT 10 Feet	SA Satin Aluminum WH White

1" RECTANGLE CANOPY & J-BOX

The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.



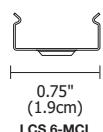
Canopy	Product
1RE	JBOX
1RE 1" Rectangle	JBOX Junction Box

MOUNTING CLIPS

LCS.6 mounting clips are provided with every 12" of Flex Neon and may be ordered separately as replacement parts. The LCS.6-MCL-075 rotates Light Channel up to 75 degrees. LCS.6-MCL-90 mounts Light Channel at a 90 degree angle.



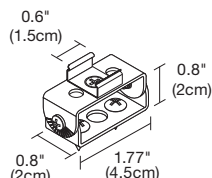
LCS.6-MCL



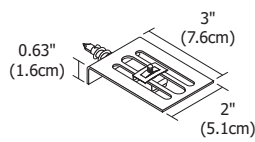
LCS.6-MCL



LCS.6-MCL-075



LCS.6-MCL-075



LCS.6-MCL-90

System	Product	Type
LCS.6	MCL	075
LCS.6 Flex Neon Left Right 0.6"	MCL Mounting Clip	Standard, Leave Blank Adjust 0-75° Mounts at 90°
		075 90

FLEX NEON TIE STRAP

Use for mounting to poles for extra support, every 6"-12" (30 per package).



Product	Type
SS	ST
SS LED Flex Neon	ST Tie Strap

PROJECT		FIXTURE TYPE		DATE	
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FLEX NEON UDR8 OUTDOOR ACCESSORIES AND J-BOXES

24VDC INDOOR / OUTDOOR RGB, RGB+WHITE 5W | 6W

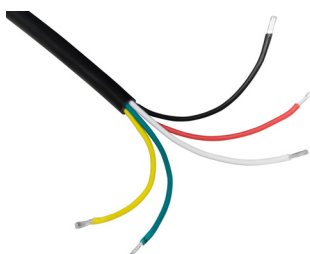
REV 04.22.21



DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

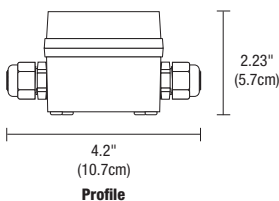
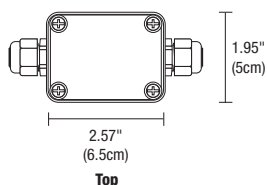
Product	Gauge	Cable
DB	12G	2C
DB Direct Burial	12G 12 Gauge	2C 2 Conductor



WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
OC	14G	5C
OC Outdoor Cable	14G 14 Gauge	5C 5 Conductor



WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.

Product	Type	Option
2RE	JBOX	W
2RE 2" Rectangle	JBOX Junction Box	W Wet Location



RGB OR RGBW WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

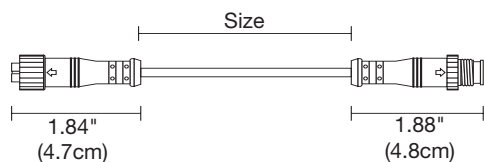
This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

Product	Canopy	Product	Size	Type	Option
SS	2RE	JBOX	6IN	RGBW	W
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Four Wire Connection	RGB RGB RGBW RGBW	W Wet Location



RGB OR RGBW POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.



Product	Type	Size	Type	Option
SS	CFX	12IN	RGBW	W
SS Soft Strip and Flex Neon	CFX Flexible 4 Wire Connector	12IN 12" 96IN 96"	RGBW Red, Green, Blue and White	W Wet Location

PROJECT		FIXTURE TYPE		DATE	
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PSB-96W-24VDC-RGB-W

DIMENSIONS

PSB-96W-24VDC-RGBW-W

Length: 10"

Width: 7.1"

Height: 3.3"

Weight: 1.6lbs



PSB-2X96W-24VDC-RGBW-W

DIMENSIONS

PSB-2X96W-24VDC-RGBW-W

Length: 11.8"

Width: 9.1"

Height: 3.4"

Weight: 2.26lbs

DESCRIPTION

Our Surface Mount, exterior-rated LED Power Supply utilizes drivers for powering 24VDC constant voltage products. This product is the ideal Power Supply for all Color Changing, damp or wet LED lighting solutions. Our constant voltage LED Power Supplies for outdoor environments are designed to provide regulated voltage through the DMX driver to the LED module. Designed for outdoor RGB and RGB+W Cirrus Soft Strip and Flex Neon.

- Universal Input Voltage
- Ripple Free
- IP65 – For Both Indoor and Outdoor Use
- No Minimum Load Requirement
- Class 2, Class P
- Auto-Reset Protection & Over-Temperature


CONTROLS

- CDMX1-RGBW - Single zone DMX touch controller
- CTP - Multiple zone DMX touch controller

POWER INPUT

Universal Input voltage ranging from 120 to 277VAC

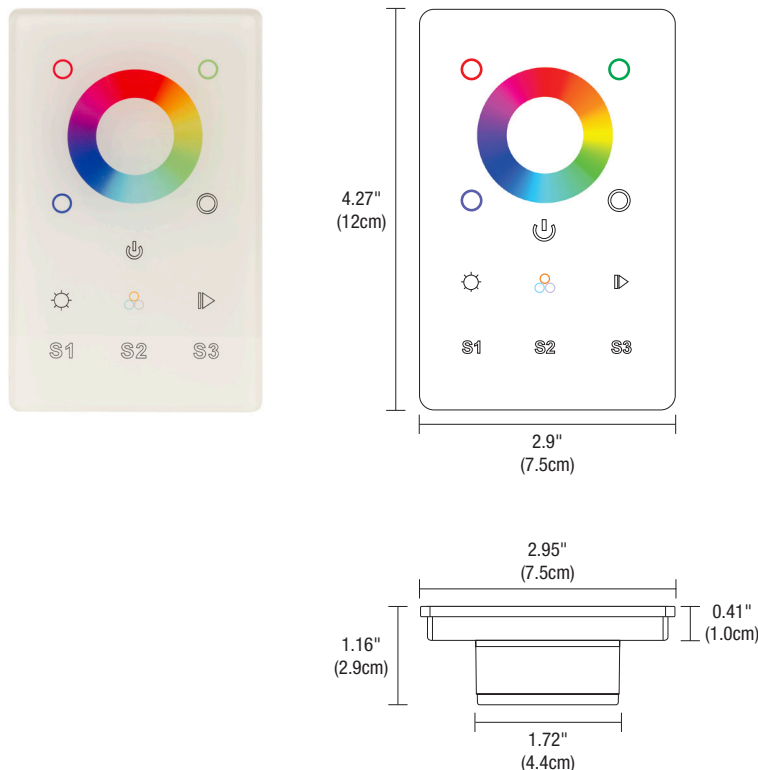
LABELS

Assembled in America, Class P, Class 2, IP65, 120-277V, Dimmable, RoHS Compliant, 24VDC 

Product	Wattage	Voltage	Type	Option
PSB	96W	24VDC	RGBW	W
PSB Power Supply	96W 96 Watts 2X96W 2x96 Watts	24VDC 24 Volts	RGBW Red, Green, Blue and White	W Wet Location

PROJECT		FIXTURE TYPE		DATE	
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RECOMMENDED CONTROLLERS



DESCRIPTION

Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

APPLICATIONS

Indoor

INSTALLATION

Fits in a single gang 2.5" deep junction box, not to be used with a multi gang box

POWER INPUT

120-277VAC

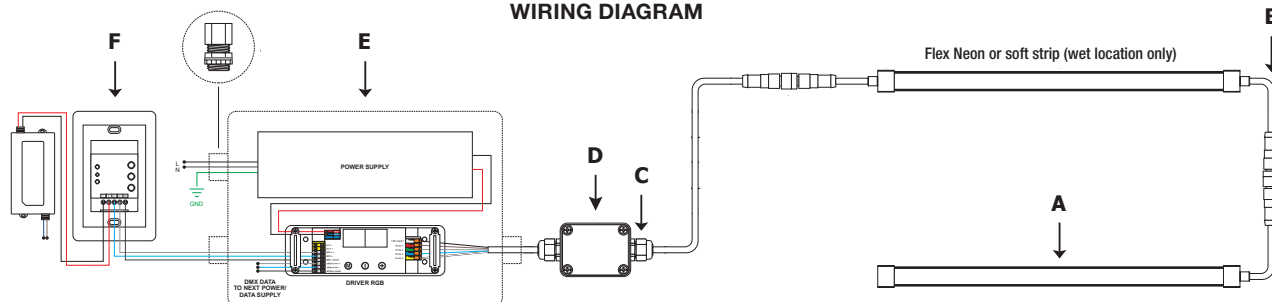
OUTPUT SIGNAL

USITT DMX 512 (1990)

Product	Type	Finish
CDMX1	RGBW	WH
CDMX1 DMX 1 Zone Touch Controller	RGBW Red, Green, Blue and White	WH White

REQUIRED COMPONENTS SOLD SEPARATELY

WIRING DIAGRAM



A. OUTDOOR 24VDC FIXTURE OR FLEX NEON

Wet location LED Flex Neon or soft strip. Please refer to fixture ordering code for incremental lengths, Flex Neon and soft strip are not field cuttable or submersible.

B. RGB & RGBW POWER CABLE CONNECTOR

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections.

C. POWER CONNECTOR

Sold Separately for Flex Neon and wet location soft strip.

*Included with Wet Location LED Soft Strips - comes connected to each end of the LED Soft Strip sealed in water-resistant silicone.

D. OUTDOOR CONNECTION BOX

Wet-rated low voltage Splice Box with connectors.

E. OUTDOOR RATED POWER SUPPLY WITH DMX DRIVER

Outdoor-rated Power Supplies are required for use with Outdoor LED Soft Strip and fixtures.

F. DMX CONTROLLER

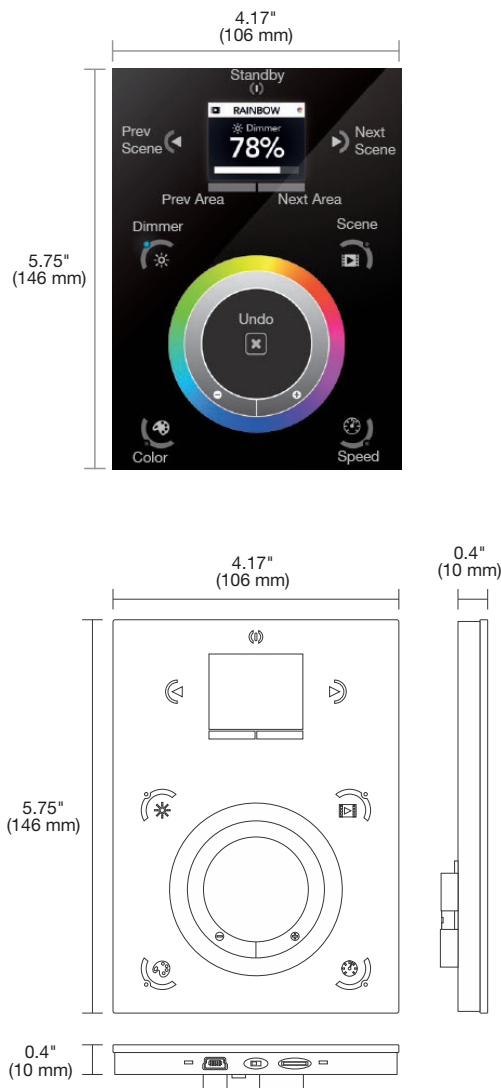
Indoor Only. Sold Separately. See page 2.

PROJECT	FIXTURE TYPE	DATE
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RGB/RGBW WET LOCATION POWER SUPPLIES & CONTROLS

WITH DMX FOR CIRRUS, FLEX NEON AND SOFT STRIP

REV 04.22.21



DESCRIPTION:

Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 10 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

FEATURES AND BENEFITS:

- Sleek glass design which sits 11mm from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control
- RS232, Dry Contact Ports and an Infra Red input port
- Clock and calendar with Sunrise/Sunset triggering
- Network communication. Control lighting remotely
- Catalog of designs including black and white glass
- OEM customization of the color palette and logo
- Windows/Mac software to set colors/effects
- iPhone/iPad/Android remote and programming apps

APPLICATIONS:

Indoor

POWER ADAPTER:

9VDC 0.65A (included)

POWER INPUT:

7VDC 0.6A

OUTPUT SIGNAL:

DMX512 1,024 channels total

INPUT SIGNAL:

Universal IR receiver (Sold Separately), RS232, Contact Closure, Live Computer Link, DMX512, WiFi

CONNECTIONS:

USB, Ethernet, RS232, Clock, 8 dry contact ports, open drain output

MEMORY:

microSD (32GB Max)

COMPUTER AND MOBILE DEVICE REQUIREMENTS:

IPHONE/IPAD/ANDROID:

The controller may be used with any of the following apps: DMX Lightpad 3, Easy Remote and Arcolis may be downloaded from App Store or Google Play.

ESA PRO SOFTWARE (WINDOWS ONLY, TIMELINE AND MULTI-ZONE):

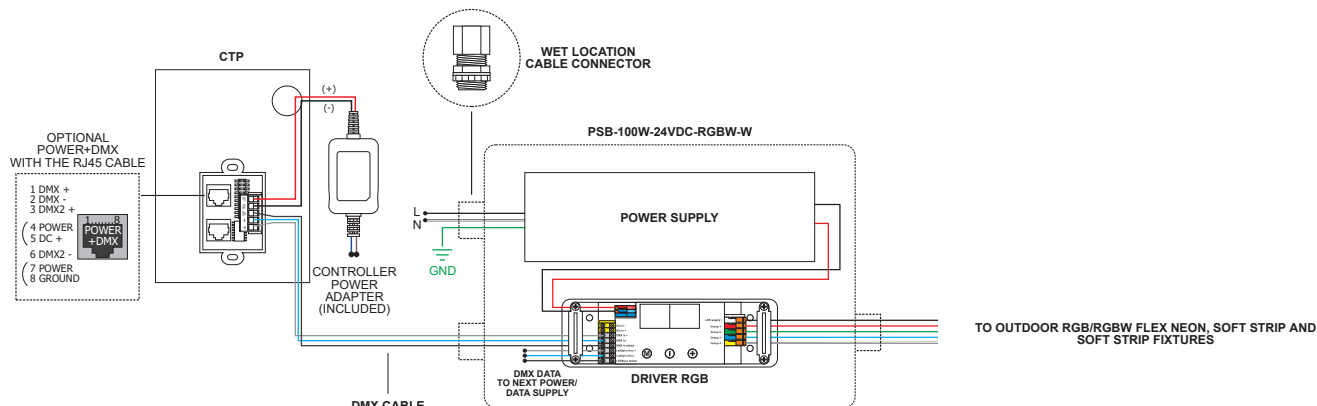
Windows ME, XP, Vista, 7 or 8 (32 bits and US 2.0, computer connection required for initial setup only.)

ESA2 SOFTWARE (WINDOWS/MAC, SINGLE ZONE):

Windows ME, XP, Vista, 7 or 8
Mac OS X 10.7 (Lion), 10.8 (Mountain Lion), 10.9 (Mavericks), 10.10 (Yosemite)

Product	Finish
CTP	BK
CTP Color Touch Screen Controller with Power Adapter	BK Black WH White

WIRING DIAGRAM FOR OUTDOOR RGB/RGBW FLEX NEON, SOFT STRIP, AND SOFT STRIP FIXTURES



PROJECT	FIXTURE TYPE	DATE
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