

## DMX-IN Controller | Model: C-IX8-24-DS00



### Specifications

- Input Voltage Range - 12-24 VDC
- No-Load Input Current - 30 mA
- Aux-Relay Control Output - 12-24 VDC, same as input
- Aux-Sensor Input Voltage - Max 24 VDC
- Ambient Temperature,  $t_a$  - -13 to 113°F(-25 to 45°C)
- Max Relative Humidity - 0 to 80%, non-cond.
- Wire Range, Solid & Standard - 0.5-1.5 mm, 14-22 AWG
- Wire Strip Length - .25" (6-7 mm)
- Dimensions - 2.2" x 1.2" x 0.7" (72.6 x 30.0 x 18.0 mm)
- Weight: 0.8 oz (23 g)

### Installation

Connect a Class 2 power supply with 12-24 VDC output voltage to the input connector of the **DMX-IN Controller**. Make sure not to use a constant current LED driver and that the cable polarity is correct.

The product can be installed outside of a junction box. Make sure to comply with National Electric Code in installation and when selecting installation wires.

### Description

The **DMX-IN Controller** can monitor up to eight DMX channels (slots) which can be configured to control upto 8 different zones in the BubblyNet network irrespective of the application. The DMX is powered by a 12-24 VDC Class 2 power supply and provides a relay output, and sensor input.

### Certifications



Different BubblyNet enabled products can be used from a simple one luminaire direct control to a complete and full featured light control system where thousands of units form automatically an intelligent mesh network. The **DMX-IN Controller** can be controlled with the BubblyNet App which can be downloaded free of charge from Apple App Store and Google Play Store. Relay output and sensor input is included.

BubblyNet uses mesh network technology so each **DMX-IN Controller** acts also as a repeater. When testing the network, it is important to test that each unit can be controlled from any point of the network covered area.

### Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:

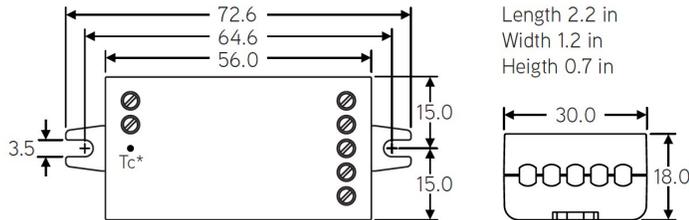
<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.

## Range

BubblyNet uses mesh network technology so each DMX Input Controller acts also as a repeater. When testing the network, it is important to test that each unit can be controlled from any point of the network covered area.



Dimensions are in mm. \* Tc point is on bottom side

### Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) This device must accept any interference received, including interference that may cause undesired operation.

### FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

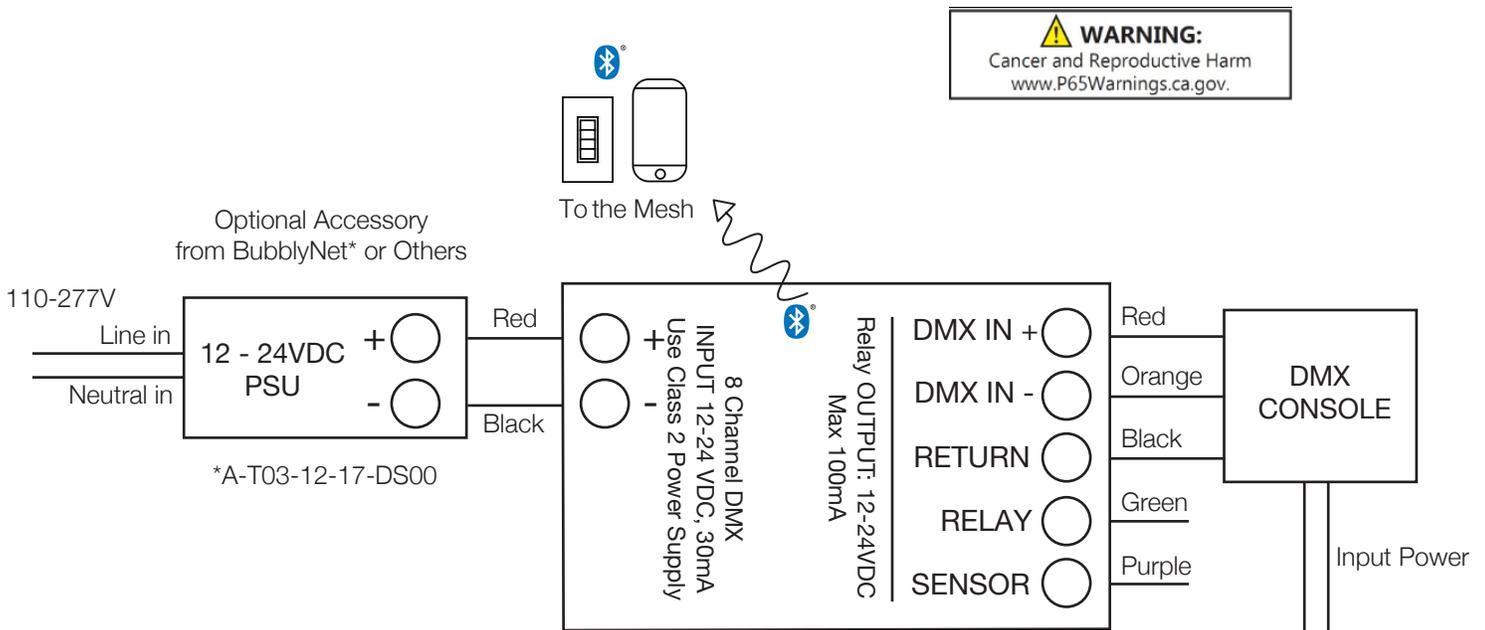
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Radiation Exposure Statement or Canada

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment is exempt from the routine RF exposure evaluation requirements of RSS-102. This equipment should be installed and operated with a minimum distance of 20 cm between the antenna and the user or bystanders.



The relay must be protected against inductive over voltage spikes, ie. it must have a flyback diode.

Do not connect a typical PCB relay without the diode.

\*Illustration is for example purposes only. Manufacturers vary depending on technical requirements of the light.\*