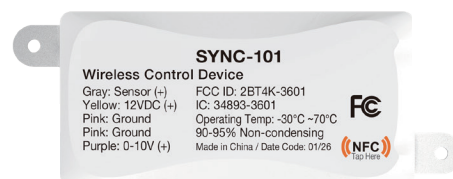


Wireless Control Device

Overview

- Single Channel 0-10VDC Dimming
- Mounts In Fixture
- Antenna Rated For IP65
- Zoning, Synchronous Dimming
- 12 VDC Only
- 5dBi & 3dBi Indoor And Outdoor Antennas Available (order separately)



IP65 Extended Range Antenna should be mounted outside of Fixture

Applications

The SYNC-101/SYNC-101-ANT Wireless Control Device allows for one channel of 0-10VDC dimming, and load control output (active high). This device features an IP65 rated SMA, RP, female antenna connector. Antenna must be ordered separately.

SYNC-101/SYNC-101-ANT is controlled wirelessly via wireless mesh technology allowing for wireless dimming of LED lighting. The controller communicates with other devices such as switches and sensors via the wireless mesh network. The device outputs a 0-10VDC dimming signal to compatible drivers (and controls dim-to-off products) as well as a 12VDC Power Supply.

Specifically designed for indoor or outdoor lighting, this controller with long range antenna extends the range of wireless mesh messages. Users can deploy cost-effective, robust wireless mesh control across indoor and outdoor applications of all sizes.

Wireless Control Operation

Syncmesh: The controller is a 2.4 GHz wireless communication and offers 0-10 v sensor connect and follow the action of the sensor, and set the group through the remote control, through wireless linkage device.

Configuration of the device and mesh network is accomplished via the Syncmesh remote control 2.4 GHz. By the self-developed wireless localization deployment method, devices can be freely connected to the act on one's own network, and sensor signals can also be automatically detected.

Sensor device as master pre-set groups will follow this master the signal is activated to achieve the function of localized wireless distribution network control for multiple controllers.



Summary

Product Type:
1-Channel Wireless Fixture Controller

Input Voltage | Current Consumption:
12VDC | 100mA

0-10V Output: 15 mA

Mounting: Controller fixture mount, antenna mounts outside of fixture to maximize range

Max Wireless Range¹:
50ft (15.24m for indoor)
150ft (45.72m for outdoor)

Operating Temperature:
-30° C to 70° C

Storage Temperature:
-40° C to 85° C

Relative Humidity:
90-95% non condensing at 30° C

Color: White

Warranty: 5 years

Note:
1. Wireless Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

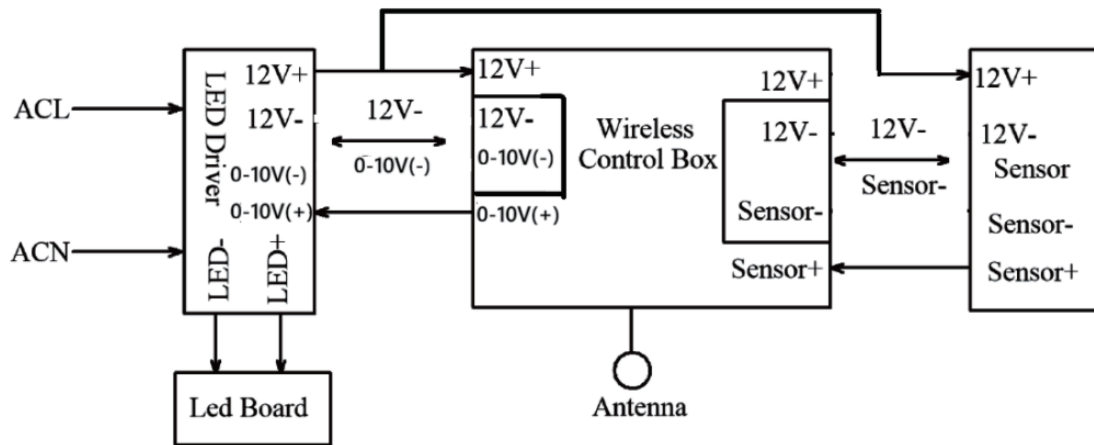
Wiring Table

Wire	Designation	Notes	Size
Pink	Pink1: 12VDC-0-10V-(LED Driver) Pink2: 12VDC-/Sensor-(Sensor)	Common Ground	#22 AWG
Yellow	12VDC + Power Input	Power Input	
Purple (Violet)	0-10V+ Dim Output	Luminaire Control Output	
Gray	Sensor Dim Input	Luminaire Control Input	

Project

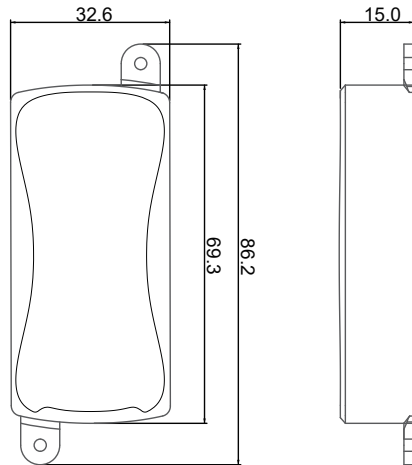
Location/Type

Wiring Example Application: Controller With Dim To Off Driver—12VDC Auxiliary Power, Long Range Antenna

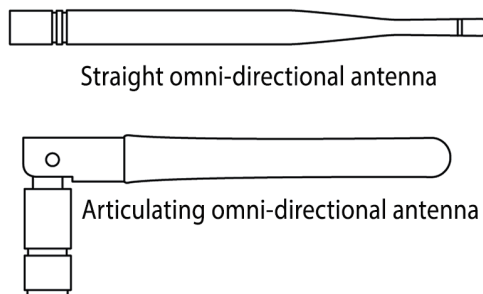


Physical Dimensions

Enclosure, Indoor Only:



Antenna Options



FCC 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. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 or more 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

INDUSTEY CANADA STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). 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 of the device. In addition, this device complies with ICES-003 of the Industry Canada (IC) Rules. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Industry Canada licence-exempt RSS standard(s). 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 or more 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.

This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

INDUSTEY CANADA STATEMENT(French):

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. De plus, cet appareil est conforme à la norme ICES-003 des règles d'Industrie Canada (IC). Tout changement ou modification non expressément approuvé par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à faire fonctionner l'équipement. Remarque : cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément aux normes RSS exemptes de licence d'Industrie Canada. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère des utilisations et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant et en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes :

- Réorientez ou déplacez l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Connectez l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

Cet équipement est conforme aux limites d'exposition aux rayonnements RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

SPECIFIC ABSORPTION RATE (SAR) INFORMATION:

This SYNC-101/SYNC-101-ANT meets government requirements for exposure to radio waves. Guidelines are based on standards developed by independent scientific bodies. Evaluate the organization through regular and thorough scientific research. These standards include substantial safety margins designed to keep everyone safe. Regardless of age or health.

FCC Radio Frequency Exposure Information and Statement:

The SAR in the United States (FCC) is below the limit of 1g 1.6 W/kg. Device Type: Smart Handheld Terminal (FCC ID: 2BT4K-3601 IC: 34893-3601&FCC ID: 2BT4K-3602 IC: 34893-3602) has also been tested against this SAR limit. During product certification, when properly worn on the body, the maximum SAR value reported in accordance with this standard is less than 1.6 W/kg. The device has been tested for typical body-worn operation and has a back

The SYNC-101/SYNC-101-ANT is kept 20cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0 cm distance between the user's body and the back of the Tablet PC. The use of belt clips, holsters and similar accessories should not include metal parts in their assembly. Use of accessories that do not meet these requirements may not meet FCC RF exposure requirements and should be avoided.

Informations sur le débit d'absorption spécifique (DAS) :

Ce SYNC-101/SYNC-101-ANT répond aux exigences gouvernementales en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organismes scientifiques indépendants. Évaluer l'organisation par des recherches scientifiques régulières et approfondies. Ces normes comprennent des marges de sécurité substantielles conçues pour assurer la sécurité de tous, indépendamment de l'âge ou de la santé. Informations et déclaration de la FCC sur l'exposition aux fréquences radio : Le DAS aux États-Unis (FCC) est inférieur à la limite de 1g 1,6 W/kg. Type d'appareil : Terminal portatif intelligent (FCC ID: 2BT4K-3601 IC: 34893-3601&FCC ID: 2BT4K-3602 IC: 34893-3602) a également été testé par rapport à cette limite SAR. Lors de la certification du produit, lorsqu'il est correctement porté sur le corps, la valeur DAS maximale signalée conformément à cette norme est inférieure à 1,6 W/kg. L'appareil a été testé pour un fonctionnement typique porté sur le corps et dispose d'un dos. Le SYNC-101/SYNC-101-ANT est maintenu à 20cm du corps. Pour maintenir la conformité aux exigences d'exposition RF de la FCC, utilisez des accessoires qui maintiennent une distance de 0 cm entre le corps de l'utilisateur et l'arrière de la tablette PC. L'utilisation de clips de ceinture, d'étuis et d'accessoires similaires ne doit pas inclure de pièces métalliques dans leur assemblage. L'utilisation d'accessoires qui ne répondent pas à ces exigences peut ne pas répondre aux exigences d'exposition RF de la FCC et doit être évitée.