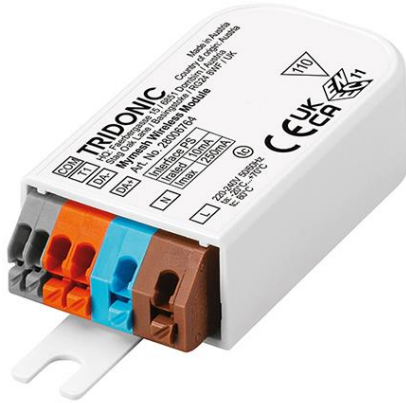


Mymesh Wireless Module

Mymesh Ready



Product description

- _ Integrated wireless Mymesh solution for lighting, climate, and shading, scalable to thousands of modules
- _ Mymesh Ready on Gen3 Platform: Requires license for activation; not compatible with Gen1 or Gen2
- _ Compact form factor designed for seamless luminaire installation
- _ Digital Output: IEC 62386 compliant digital interface, supports one logical luminaire
- _ Advanced Control: Supports drivers for Tunable White and RGB (W) colorspace (multi-channel control)
- _ Emergency Lighting: Automated IEC 62386 compliant emergency testing, reporting, and remote monitoring
- _ Presence State Input: Active-low input with internal pull-up for dry contact devices (switches, relays, sensors). Do not connect powered signal sources
- _ 5 years guarantee (conditions at <https://www.tridonic.com/en/int/services/manufacturing-guarantee-conditions>)
- _ We will provide security updates for the next five years after the date of purchase of this product

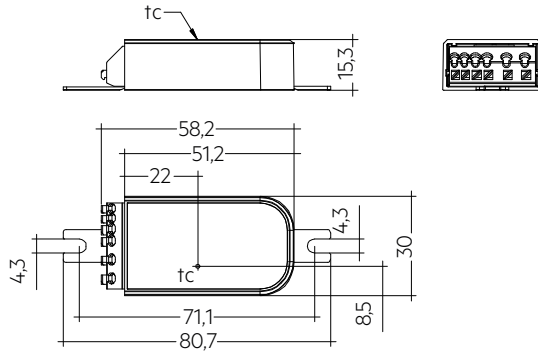
Website

<http://www.tridonic.com/28006764>



Mymesh Wireless Module

Mymesh Ready



Ordering data

Type	Article number	Packaging, carton	Weight per pc.
Mymesh Wireless Module	28006764	60 pc(s).	0.02 kg

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Max. mains current	10 mA
Typ. power consumption on stand-by	< 0.4 W
Input	1 dry contact input
Max. cable length push button	5 m bei 0,14-0,5 mm ²
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver (E.I. R.P.) ^①	< + 20 dBm
Radio protocol	Mymesh Gen3
Capable for mesh network	> 10,000 devices per network
U-OUT digital interface according to IEC 62386	25 V
Number of addresses	1
Guaranteed output current	10 mA
Max. output current, Interface	250 mA
Max. Interface wiring length	5 m at 1 mm ²
Max. casing temperature tc	80 °C
Ambient temperature ta	-20 ... +70 °C
Storage temperature ts	-25 ... +75 °C
Lifetime	up to 50,000 h
Guarantee (conditions at www.tridonic.com)	5 Year(s)
Dimensions L x W x H ^②	80.7 x 30 x 15.3 mm
Type of protection	IP20

Approval marks



① E.I.R.P.: Equivalent Isotropically Radiated Power.

② Screw fixings can be removed.

1. Standards

EN 300 328
 EN 301 489-01/17
 EN 55015
 EN 61347-1
 EN 61347-11
 EN 61547



Control terminals marked "Caution" can become live in the event of a fault and are therefore not safe to touch. Circuits connected to control terminals marked in this way must be insulated according to the supply voltage of the controlgear and all terminals connected to such circuits must be protected against accidental contact

1.1 Glow wire test

According to EN 61347-2-11 with increased temperature of 850 °C passed.

2. Common

2.1 Description

The Mymesh Wireless module is a driver controller according to IEC 62386 and has an integrated power supply therefore no external power supply is needed.

The module can be connected to a maximum of 1 driver only or 1 driver plus 1 emergency driver.

A Presence State Input can be used to connect dry contact devices (switches, relays, sensors with open-collector outputs).

2.2 Operation

The Mymesh Wireless module is fully compatible with the Mymesh Gen3 platform which supports over 10.000 devices in a single network. Multiple devices automatically form a Mymesh network that will individually control their output based on actual and preferred setpoints distributed in the network.

These networks cannot communicate directly with a smartphone or tablet. Therefore, a gateway is needed for control through the API.

Mymesh devices have an integrated 2.4 GHz antenna. For optimum RF-performance, a special attention will have to be given when the device is integrated into a luminaire. See chapter 5.3 Placement for further instructions.

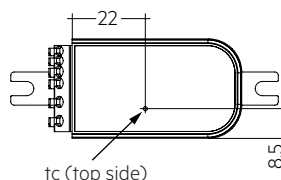
Mymesh devices can be used very flexible for different use cases. The operating modes (profiles) can be changed from the Mymesh Building GUI through the cloud.

3. Thermal details and lifetime

3.1 Expected lifetime

Expected lifetime				
Type	ta	75 °C	70 °C	60 °C
Mymesh Wireless	tc	80 °C	76 °C	66 °C
	Lifetime	40,000 h	50,000 h	100,000 h

The device is designed for a lifetime stated above under reference conditions and with a failure probability of less than 10 %.



The device incorporates thermal protection by means of an internal thermal cut-off.

4. Interfaces / communication

4.1 Digital output

The Mymesh Wireless module has an integrated IEC 62386 compatible power supply. A maximum of 1 driver or 1 driver plus 1 emergency driver can be connected to this interface.



Before connecting the Mymesh Wireless module, please make sure that no other power supply (including drivers with integrated PS) is powering the bus.

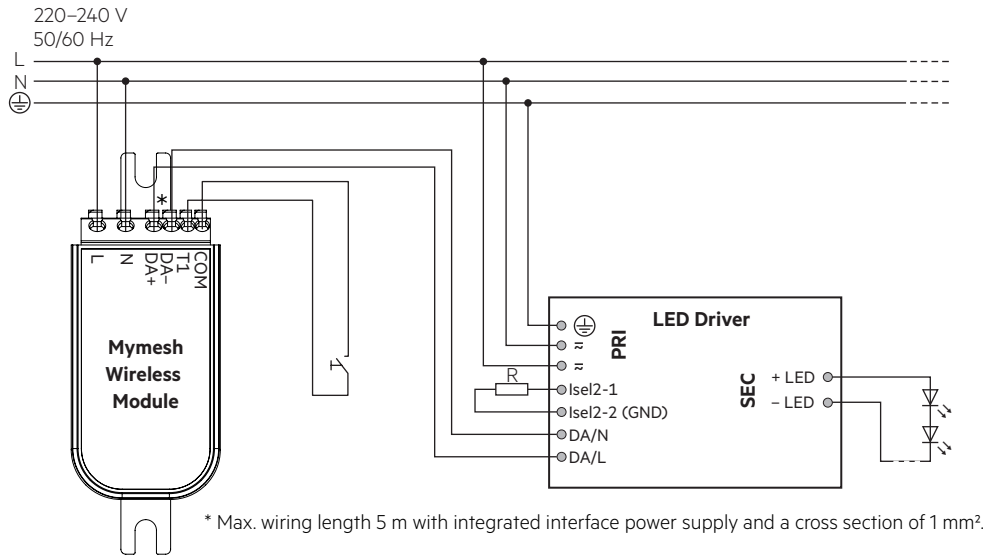
4.2 Presence State Input

A dry contact device (switch, relays, sensors with open-collector outputs) can be connected to the input terminals of the Mymesh Wireless module. The max. cable length between external device and terminal is 5 m. The input is active low with internal pull-up. Do not connect powered signal sources.

With the Presence State Input it is possible to generate a Presence State in the Space where the Mymesh Wireless module is commissioned. This Presence State can then be used by other drivers / modules in the same or adjacent spaces in the Mymesh network to adjust their output based on configured behaviour.

5. Installation / wiring

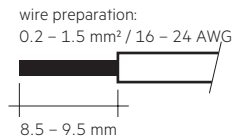
5.1 Wiring diagram



5.2 Wiring type and cross section

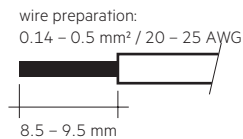
Mains supply / Bus communication wires:

For wiring use stranded wire with ferrules or solid wire from 0.2–1.5 mm² (16–24 AWG).
Strip 8.5–9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals.
Use one wire for each terminal connector only.



Presence State Input wires:

For wiring use stranded wire with ferrules or solid wire from 0.14–0.5 mm² (20–25 AWG).
Strip 8.5–9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals.
Use one wire for each terminal connector only.



There is a risk of electric shock when touching these terminals in case of failure.

Note: In some countries basic insulated control terminals are to be marked with this symbol.

5.3 Insulation between terminals

Insulation	Mains	LED	DA+/-
Mains	–	basic	basic
LED	basic	–	basic
DA+/-	basic	basic	–

basic ... represents basic insulation.

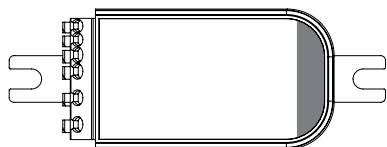
double ... represents double or reinforced insulation.

5.4 Placement

The Mymesh Wireless module has an integrated antenna for easy integration. In order to maximize the range in every direction some design guidelines should be taken into consideration when mounting the device. The antenna is located at the end of the enclosure.

When the device is mounted on a metal plate (e.g. frame of a luminaire), it may efficiently block the radio frequency signal. In this case, a cut-out underneath the antenna may be needed for the RF signal to exit the structure.

The cut-out area should be as large as possible. Also the device should be placed as far away from any vertical metal structures as possible.



■ Antenna location



The range of the communication signal is depending on the environment e.g. luminaire, construction of the building, furnitures or humans and needs to be tested and approved in the installation.



To ensure a good radio connection, do not cover the Mymesh Wireless module with metal!

5.5 Installation note

Max. torque at screw fixing: 0.4 Nm / M3.

6. Miscellaneous

6.1 Disposal of equipment



Return old devices in accordance with the WEEE directive to suitable recycling facilities.

6.2 Conditions of use and storage

Environmental conditions: 5% up to max. 85%,
not condensed

Storage temperature: -25 °C up to max. +75 °C

The devices have to be acclimatised to the specified temperature range (ta) before they can be operated.

6.3 Additional information

Network Compatibility & Features

- Licensing & Enablement: Mymesh Ready hardware; requires Mymesh license activation to unlock device functionality.
- Core Functionality: Wireless Mymesh backbone for integrated Lighting, HVAC, and Shading control.
- Sensor Support: Native Light and Presence control; extendable to Occupancy, CO2, Humidity, and more.
- Smart Logic: Features Daylight Harvesting, Human Centric Lighting (HCL), Adjacent Presence, Scenes, and Calendars.
- Configurable Parameters: StartupLux, MaxLux, Twilight, Fade-time, and Day/Night set-points. optional: Tunable White, RGBW.
- Safety & Alarms: Automated Emergency testing/logging; Integration with Fire and Burglar alarms (Override logic).
- Commissioning: Local (iPad) and Remote (Cloud) commissioning with Network View and Diagnostics.
- Cloud Services: Lumdata logging and Digital Twin (direct floorplan links for fast servicing).
- User Interfaces: Compatible with Mymesh Room Control App and Cisco Navigator.
- Enterprise Security: AES-CCM encryption, ISO 9798 mutual authentication, unique device identity, and AWS infrastructure.
- Future-Proofing: Supports Over-The-Air (OTA) updates for new functionality and feature upgrades.
- System Integration: Cloud API and BACnet integration available for seamless connection with Building Automation Systems.
- Open Ecosystem: Connects easily to third-party dashboards and external applications.

Additional information about Mymesh Gen3 platform → www.mymesh.nl

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.