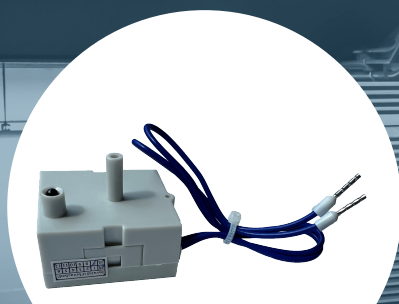




EnergyNode Connect

D4i | Radar Motion Sensor | GlobiMesh | Bluetooth Mesh

Remoticom | EnergyNode Connect | D4i | Radar Motion Sensor | Twilight | GlobiMesh | Bluetooth Mesh

EnergyNode Connect.

The EnergyNode Connect is designed for deployment in public environments where continuous illumination is a waste of energy. This sensor adjusts lighting, illuminating only upon detection of movement and automatically dimming following a configurable hold time. Designed to optimize energy usage, . Ideal applications encompass areas such as stairwells, corridors, tunnels, and bicycle sheds, characterized by transient foot traffic, making continuous full illumination unnecessary. The field proven EnergyNode Mini has all these features. The EnergyNode Connect enables sensors to communicate with each other.

GlobiMesh in motion sensors (nodes) for lighting systems enables the possibility to dynamically control lighting in areas where movement is detected.

An example of dynamic lighting is trigger forwarding. If motion is detected at the entrance, the directly adjacent hallways can be informed to enable lighting. Depending on the route taken the paths not taken can be disabled and the possible paths forward enabled.

Another example is occupation estimation, by configuring nodes pairs as specific door sensors groups of nodes can be told that there is a high probability that the group is occupied. This is beneficial for an office garden where people often have minimal movement and traditional motion sensors might not be triggered within required time period. Having sensors in each lighting fixture that communicate with each other that there has been a trigger reduces the chance of occupied areas not being lit.

The mesh functionality of the devices also means that a the devices has and requires extended capabilities, such as;

- Advanced dimming scenes and schedules, when a timesource is available (not part of this device).
- Device localization (based on GPS from provisioning application).
- Floor plan management and device configuration back-up.
- NFC configuration & *network connectivity through gateway.*
- Wireless firmware Update capabilities.

ADVANTAGES.

- ✓ Trigger forwarding
- ✓ Nearly invisible installation inside lighting fixture behind plastic or glass
- ✓ Easy configuration with through GlobiMesh app
- ✓ A sustainable energy-saving solution
- ✓ Compatible with bus powered DALI-2 and D4i Control gear
- ✓ Easy installation due to compact size
- ✓ Twilight switch functionality
- ✓ Movement detection up to 8 m*
- ✓ Multidriver support

* Conditions may vary depending on situation and fixture.

Detection sensitivity

The sensitivity of the sensor can be configured through the app or remotely through a gateway. Either in predefined settings or in custom ranges.

Hold time

After a motion trigger the light will be set at max light level for the hold time after which it will be halved, and it will again be held for the set hold time. This repeats until the light is off or at Idle level.

DIM schedules

When a timesource is available in the EnergyNode Connect can process dim schedules that are configured via the GlobiMesh app. When a GlobiMesh gateway is present in the network, it can act as a timesource and enable configuring of dim

Twilight sensor

EnergyNode Connect features daylight detection. When the day filter is active, lights remain off even if motion is detected.

Fade time

When the light level changes due to for example an expired hold time, it is possible to fade to the light level instead of instantly jumping to it. The fade time is configurable, and can be ignored for motion triggers.

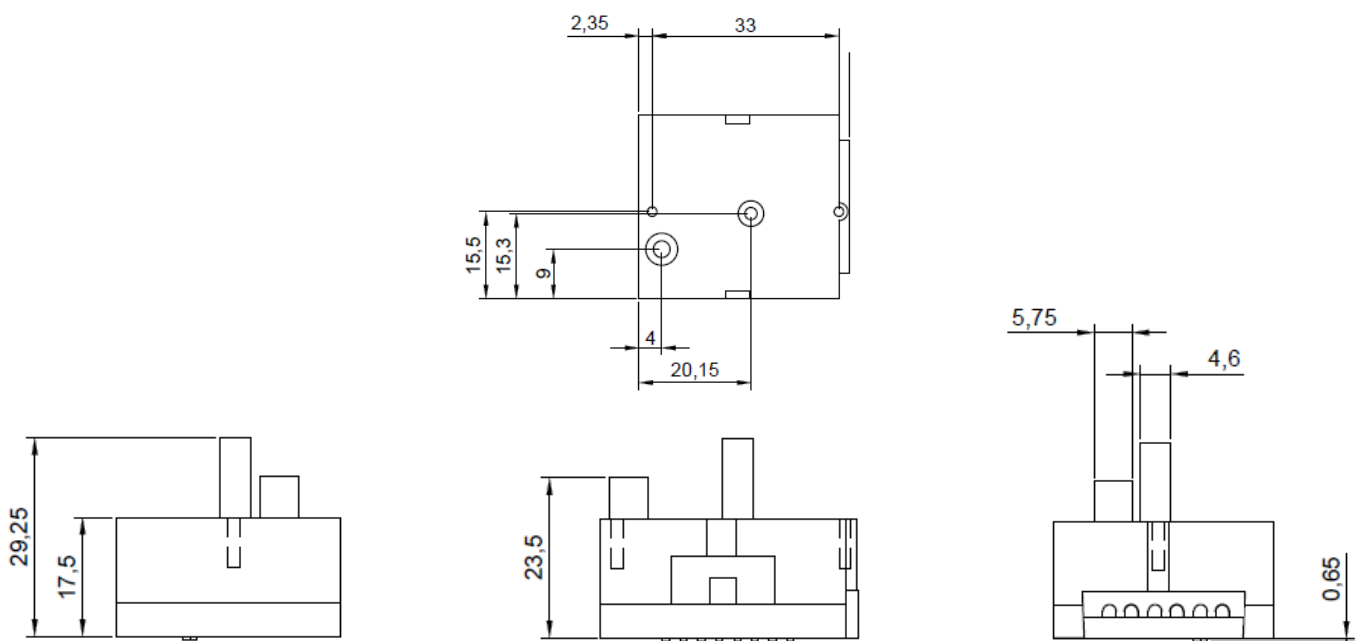
Quick installation

A building planner can create a configuration before the devices are installed. The installer only has to load the configuration for that location and apply it.

GlobiMesh

GlobiMesh gateways supply internet connectivity to the EnergyNode. The nodes will connect automatically. Enabling remote configuration and monitoring of lighting solutions.

DIMENSIONS EnergyNode Connect.



PRODUCT DATA EnergyNode Connect.

Physical information

Dimensions (in mm)	38 x 33 x 30 mm
Wires (in mm)	200mm
Color (REAL)	Light Grey

Electrical information

Rated voltage	12 to 22.5 VDC (According to DALI standard)
Average current	15 mA
Absolute min/max voltage	9 - 26 VDC
Settings via	App with NFC or Bluetooth
Application	Installation in fixture
Connection	Two-wire (color: blue)
Mounting location	Wall or ceiling
Mounting height max.	4 meters
Dali Certification	D4i Type-D (single master)
Bus power required	Yes
Compatible drivers	DALI-2 and D4i
Twilight switch level	50 lux
Radar technology	5.8 GHz

Environment and quality

Operating temperature	-20 to 70 degrees Celsius
Humidity	10% to 80% (non-condensing)
Storage temperature	-25 to 70 degrees Celsius
Storage humidity	10% to 80% (non-condensing)
IP class	IP20

Commercial

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Datasheet revision	0.1