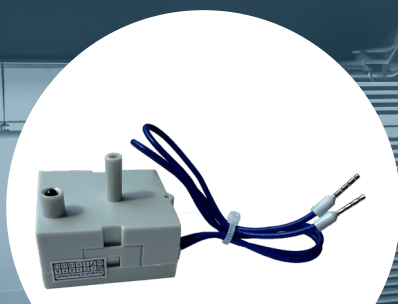




EnergyNode Mini

D4i | Radar Motion Sensor | Twilight

REMOTICOM | EnergyNode Mini | D4i | Radar Motion Sensor | Twilight

EnergyNode Mini.

The EnergyNode Mini is tailored for deployment in public environments where continuous illumination is a waste of energy. To optimize energy usage, this sensor adjusts lighting, illuminating only upon detection of movement and automatically dimming following a configurable hold time. Ideal applications encompass areas such as stairwells, corridors, tunnels, and bicycle sheds, characterized by transient foot traffic, making continuous full illumination unnecessary.

The EnergyNode Mini is an module designed for motion detection and light control in lighting systems. Interfacing with DALI, DALI-2 and D4i control gears with bus power, controlling light output in response to detected motion. This compact sensor utilizes radio detection and ranging technology and a light sensor.

The EnergyNode Mini can be configured with DIP-switches for enabling/disabling functionalities such as; Detection sensitivity, hold time, twilight sensor, idle level and the motion sensor. These configurations give the possibility to optimize energy efficiency, comfort and safety in illuminated spaces.

The straightforward installation in fixtures equipped with bus powered DALI, DALI-2 and D4i control gears, highlights its versatility and practicality.

This environmentally conscious solution minimizes light pollution, it ensures comfort and safety by maintaining optimal lighting levels only when they are needed. The careful balance between energy efficiency and user well-being through a thoughtful approach to modern lighting solutions.

ADVANTAGES.

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

* Results may vary depending on situation and fixture.

DIPSWITCH EnergyNode Mini SETTINGS.

DIP switches	Detection sensitivity			Hold time (sec)		Twilight sensor	Idle level	Motion sensor
	1	2	3	4	5	6	7	8
100%	☒	☒	☒	☒	☒	On ☒	On ☒	On ☒
75%	☐	☒	☒	☐	☒	Off ☐	Off ☐	Off ☐
50%	☒	☐	☒	☒	☐			
25%	☐	☐	☒	☐	☐			
10%	☐	☐	☐	☐	☐			

DIP Switch

On [^] ☒

Off ^v ☐

Detection sensitivity

The EnergyNode Mini has 5 levels specified on the label. There are 8 levels in total, as specified in the combination table above.

Twilight sensor

The EnergyNode mini detects sunlight, when the day filter is active the device does not trigger on the radar.

Motion Sensor

When the motion detection feature is not required it can be disabled, for example when only the twilight sensor is needed.

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.

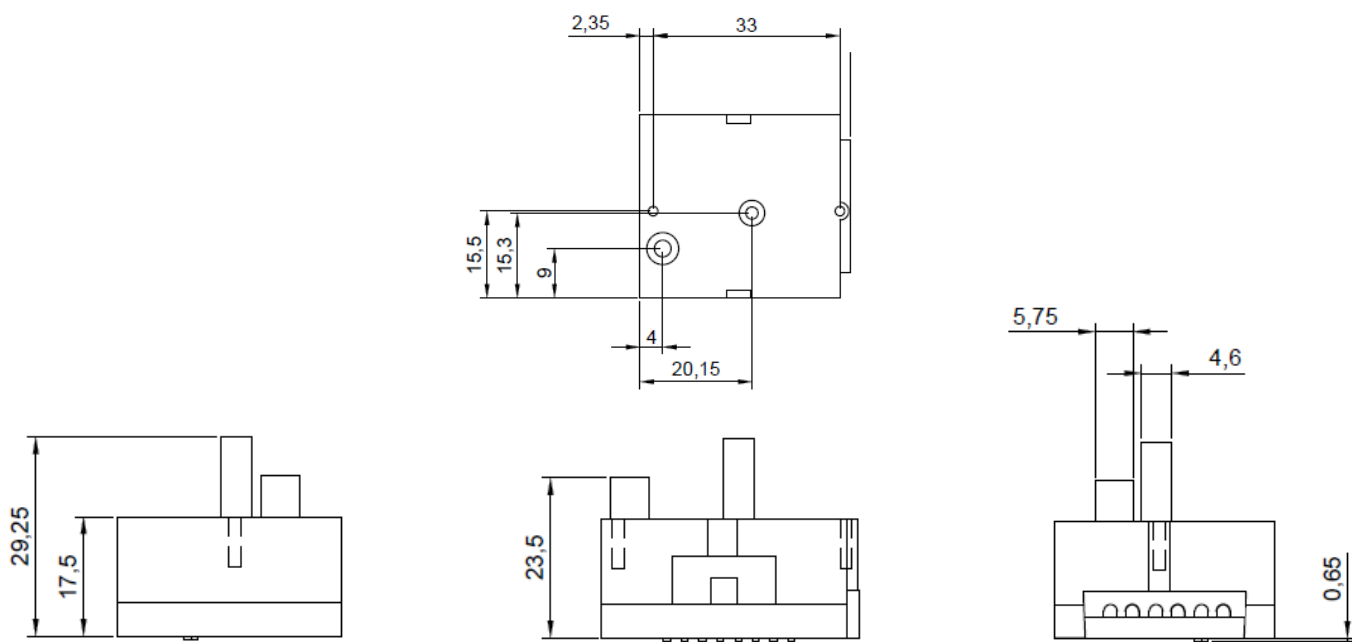
Idle level

The idle mode prevents the light from turning off, and keeps it at the last step of dimming. If the twilight sensor and idle mode is enabled during the day the light dims to off.

DALI installation

It is the task of the service engineer to set the fade time, min and max level. The EnergyNode Mini only sends Arc commands to the DALI Control Gear.

DIMENSIONS EnergyNode Mini.



PRODUCT DATA EnergyNode Mini.

Physical information

Dimensions (in mm)	38 x 33 x 30 mm
Wires (in mm)	200mm
Color	RAL 7035

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	Dipswitches
Application	Installation in fixture
Wiring	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, 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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