EN

DiNUY
Brighten up your day

INSTRUCTION MANUAL

Refs. DM TEC B1B, DM TEC B1N and DM TEC B1P MOTION AND PRESENCE DETECTOR CEILING SURFACE MOUNTED WHITE, SILVER OR BLACK

Ecodiseño

Bluetooth

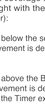
TECHNICAL SPECIFICATIONS

Power supply	230V~ ±10% ~50/60Hz
Own Consumption	<1W
Charge	16A cos φ = 1
LED	400W
Incandescent lamps	3.000W
Halogen lamps 230V	3.000W
Halogen + electronic transformer	3.000W
Halogen + ferromagnetic transformer	2.400W
Fluorescent	1.300W (130μF)
Relay status NO or NC	Select from DINUY Configure APP
Detection angle	Circular, 360º
Detection field	360º in a maximum of Ø7m with 2,5m height and 18ºC
Adjustments	DINUY Configure App
Brightness Level	5 to 2000Lux, or Disabled
Timing	1 seg. till 60 minutes
Sensitivity	5 values adjustable through DINUY Configure App
Protection	IP40, Class II
Working temperature	–10ºC .. +45ºC

CHARACTERISTICS

- **"3 in 1"** indoor detector, for flush ceiling mounted with the following operating modes:.

- Motion Detector. Installation in transit areas, corridors.



- Presence Detector. Installation in work areas, offices.

- Twilight Switch. Installation in interiors affected by outdoor lighting.

- It has a switching channel with a **16A relay**.
- **ZCT (Zero Crossing Technology)**, which allows to protect the contactors of the relay and manage high loads.
- **Highly sensitive PIR sensor**, which detects the slightest movement within its coverage area.
- It incorporates a **red LED indicator** that helps test the **correct motion detection** of the device.
- It incorporates a **blue LED indicator** to identify that the detector is **Bluetooth enabled**.
- **Configuration and adjustment** through the **DINUY CONFIGURE App**.

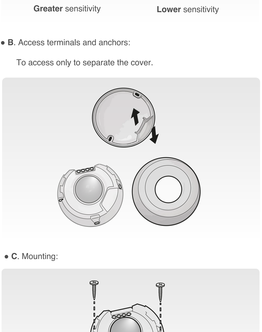
FUNCTIONING

- This detector automatically switches the lighting based on the detection of the slightest movement of people and the level of natural light.
- Possibility of connecting several detectors in parallel, which makes it possible to expand the area to be covered in a single lighting line.
- In Presence Detector mode, while the lighting is on due to the presence of a person within its coverage area, the sensor will compare the measured natural light with the setpoint set in the configuration (Brightness Parameter):

- If the natural light is below the set Brightness setting, the timing will reset when new movement is detected and the lighting will continue on.

- If the natural light is above the Brightness setting, the timer will not reset when new movement is detected and the lighting will turn off when the time set in the Timer expires.

DIMENSIONS



MOUNTING

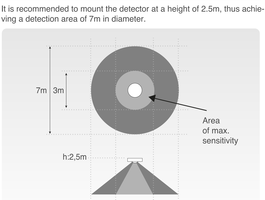
- **A**. Site Selection:

- Do not aim the detector at objects with **highly reflective surfaces** or those subject to **rapid temperature changes**.

- Do not install the detector near **heat sources**.

- Do not aim the detector towards light sources.

- Do not aim the detector at **objects that move with the wind**.



- **B**. Access terminals and anchors:

To access only to separate the cover.

- **C**. Mounting:

COVERAGE

It is recommended to mount the detector at a height of 2.5m, thus achieving a detection area of 7m in diameter.

INSTALLATION AND WIRING

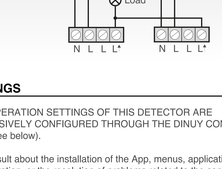
ATTENTION: Dangerous voltage!.
- **Installation of electric equipment must be carried out by qualified professionals.**
- **Before you start making any connections, disconnect the power supply to avoid any risk.**
- **When some kinds of lamps blow, they can produce a very high current which could damage the detector.**

NOTE

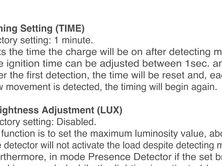
Once the detector is connected to the power supply, it is necessary to wait 30 seconds for it to stabilize. During this time, the device activates its output and does not respond to movement.

- Follow one of the following diagrams to make the connection:

- Simple installation of a single detector:



- Installation of two detectors in parallel with a single charge:



SETTINGS

- ALL OPERATION SETTINGS OF THIS DETECTOR ARE EXCLUSIVELY CONFIGURED THROUGH THE DINUY CONFIGURE APP (see below).

- To consult about the installation of the App, menus, application of the configuration, or the resolution of problems related to the configuration, please consult the instructions for use of the DINUY CONFIGURE App.

- The basic operating values of this detector are 'Timing', 'Brightness' and 'Sensitivity' can be adjusted using the DINUY CONFIGURE App.

- Timing Setting (TIME)
Factory setting: 1 minute.
Sets the time the charge will be on after detecting movement. The ignition time can be adjusted between 1sec. and 60min. After the first detection, the time will be reset and, each time a new movement is detected, the timing will begin again.

- Brightness Adjustment (LUX)
Factory setting: Disabled.
Its function is to set the maximum luminosity value, above which the detector will not activate the load despite detecting movement. Furthermore, in mode Presence Detector if the set brightness level is exceeded while the lighting is activated (presence of people), the load will be automatically deactivated.

The user can set this value depending on their requirements, between 5 and 2.000 Lux and disabled.

If this parameter is set to a very low value, close to 5 Lux, the detector will only work in the dark, at night (in case there is not enough natural light).

If this parameter is set to the value Disabled, the detector will work in any light level, regardless of natural light, both day and night.

- Sensitivity Adjustment
Factory setting: Very High.
This parameter allows you to limit the detection range and adapt the operation to, for example, unstable environments.
You can choose between 5 adjustment options:
- Very High
- High
- Medium
- Low
- Very low

FUNCTION TEST

- The purpose of this test is to check and adjust the coverage area of the detector when it is first connected.

NOTE

Once the detector is connected to the power supply, it is necessary to wait 30 seconds for it to stabilize. From that moment, the operation test can be carried out.

- The red LED visually indicates when motion is detected and works both when the load is on and off.

- This red LED will light up whenever motion is detected.

- Walk from outside the coverage area inward until the lights turn on.

- The blue LED indicates that the Bluetooth is activated and ready to receive the programming from the smartphone. Once the detector is powered at 230V~ the Bluetooth will be activated for a while. After this time the Bluetooth will be automatically deactivated. This time can be selected from 10 minutes to 4 hours. The factory setting is 2 hours.

- Once you have verified that the operation is correct, save the detector settings with the desired values

COVER SHUTTER

- A cover shutter is included in the same detector box, which allows you to exclude areas from the detection area, as well as reduce the coverage area according to needs.

- In the event that the default detection area of the detector is too large, or it is detected in areas that are not desired, this area can be easily reduced simply by using the shutter covers.

PROBLEM RESOLUTION

When the detector stops working normally, review the possible faults and the suggested solutions in the following table that will help you solve the problem:

Problem	Possible cause	Suggested Solution
The lamps do not turn on	No voltage reaching the detector	Properly power the detector
	Bad connection	Check the connections and follow the instructions diagram
	Poorly adjusted LUX	Check Brightness Adjustment setting
	Defective charge	Replace the load
	Very high ambient temperature	Wait for the ambient temperature to reduce and test the detector
The lamps don't go out	The set shutdown time is too long	Reduce disconnection time and check that the lamps turn off after the time has elapsed
	The detector trips unexpectedly	Stay out of the coverage area to avoid false activations
	Bad connection	Make sure the charging and power are connected well
Lamps turn on and off cyclically	The load (fluorescence, contactor...) is generating harmonics that continuously trigger the detector with each switching	Move the detector away from the load or place an RC harmonic suppression filter (AC DM-002) between L' and N
Unwanted activations	Heat sources, drafts, reflective surfaces or objects that move due to wind	Avoid directing the detector towards heat sources, such as air conditioners, fans, radiators. Make sure there are no objects that move with the wind. Reduce the Sensitivity of the detector with the APP Dinuy Configure.
Lamps work in reverse, turning on when they should be off, and off when they should be on	The Output Polarity is set in reverse	Make sure you change the Output Polarity in the ADVANCED MENU