



INSTRUCTION MANUAL

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



230V~ ±10% ~50/60Hz

<1W

Own Consumption

Power supply

TECHNICAL SPECIFICATIONS

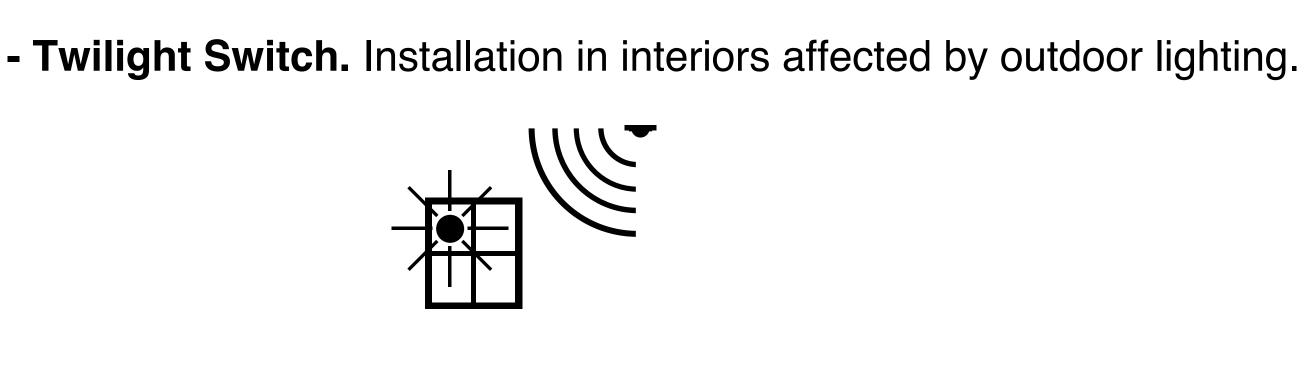
Charge	16A cos φ = 1	
LED	400W	
Incandescent lamps	3.000W	
Halogen lamps 230V	3.000W	
Halogen + electronic transformer	3.000W	
Halogen + ferromagnetic transformer	2.400W	
Fluorescent	1.300W (130µF)	
Relay status NO or NC	Select from DINUY Configure APP	
Detection angle	Circular, 360°	
Detection field	360° in a maximum of Ø7m with 2,5m height and 18°C	
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	-10°C +45°C	
CHARACTERISTICS		

operating modes:.

- Presence Detector. Installation in work areas, offices.

• "3 in 1" indoor detector, for flush ceiling mounted with the following

- Motion Detector. Installation in transit areas, corridors.



Highly sensitive PIR sensor, which detects the slightest movement

contactors of the relay and manage high loads.

ZCT (Zero Crossing Technology), which allows to protect the

It has a switching channel with a 16A relay.

within its coverage area.

detection of the device.

Bluetooth enabled.

FUNCTIONING

Configuration and adjustment through the DINUY CONFIGURE App.

This detector automatically switches the lighting based on the

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

It incorporates a blue LED indicator to identify that the detector is

It incorporates a red LED indicator that helps test the correct motion

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.

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

- 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

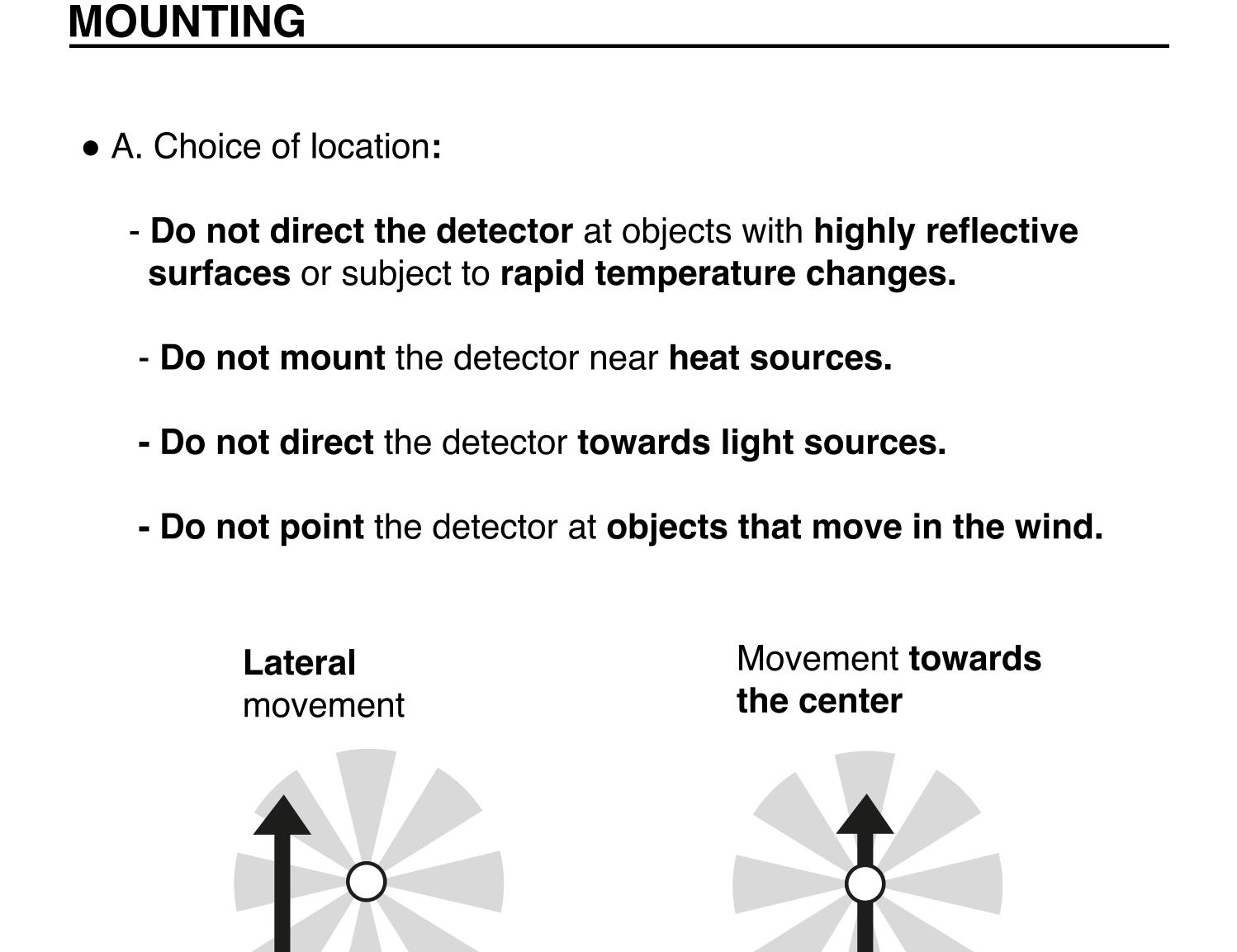
when the time set in the Timer expires.

Ø 118,5mm 35mm

45mm

DIMENSIONS

continue on.

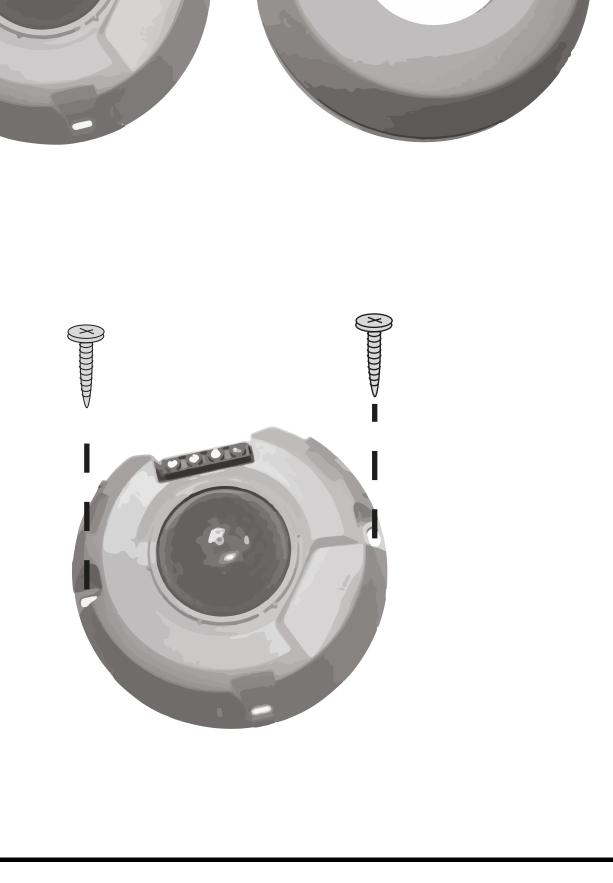


Lower sensitivity

Greater sensitivity

• B. Access terminals and anchors:

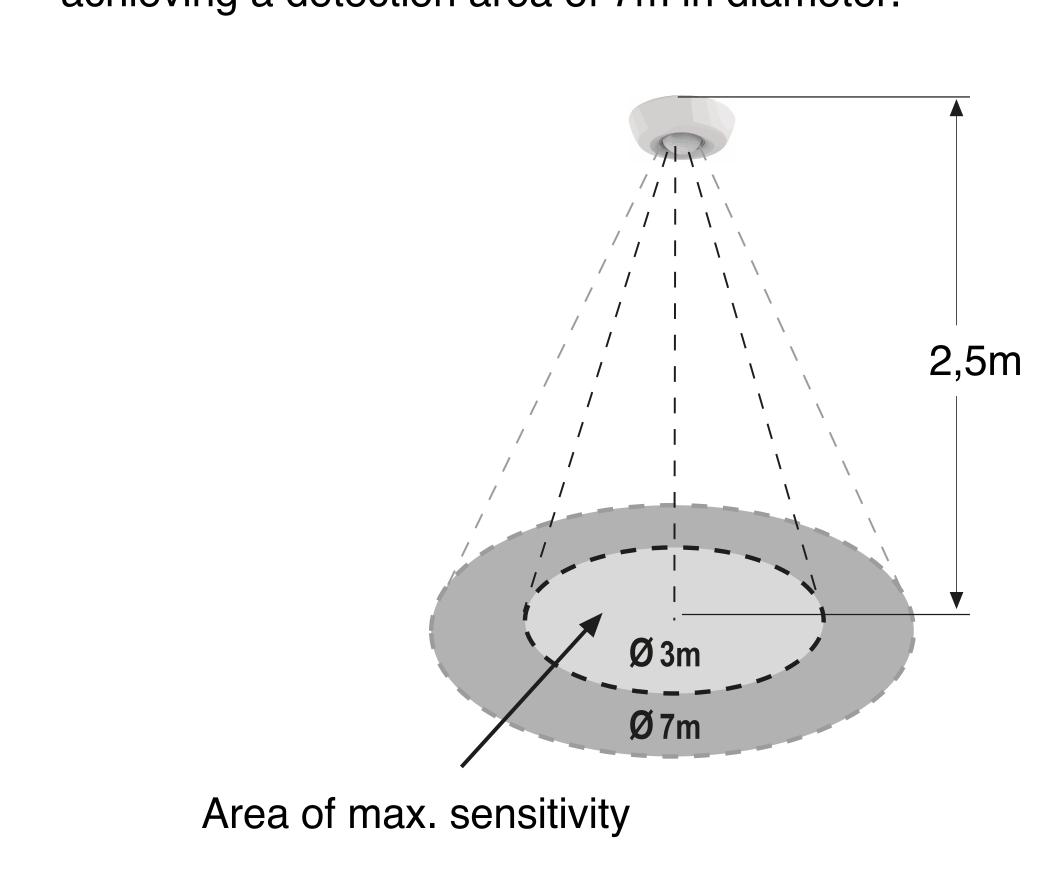
To access only to separate the cover.



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

COVERAGE

• C. Mounting:



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.

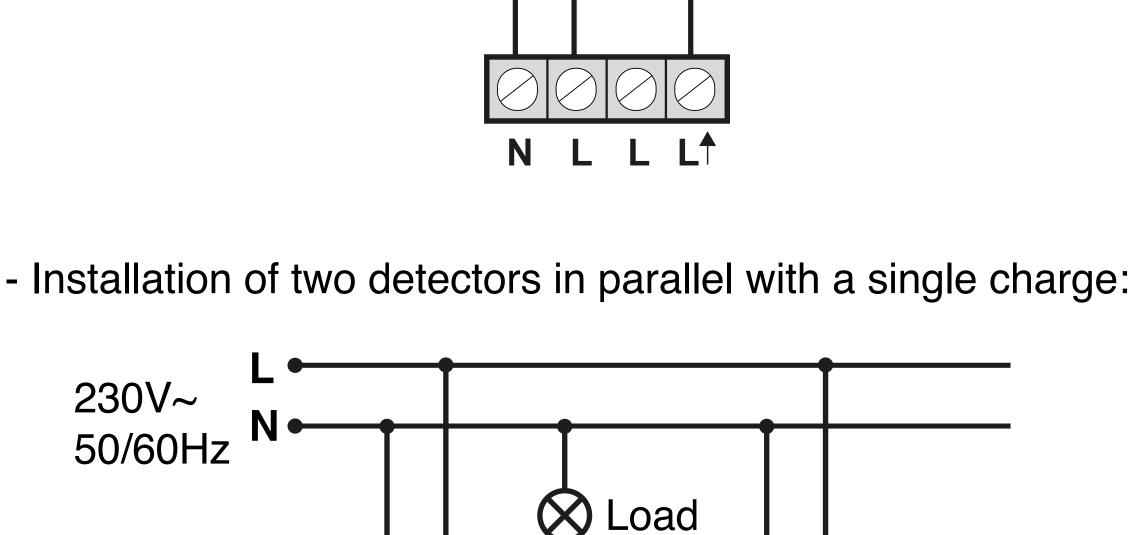
Once the detector is connected to the power supply, it is necessary to wait 30 seconds for it to stabilize. During this

NOTE

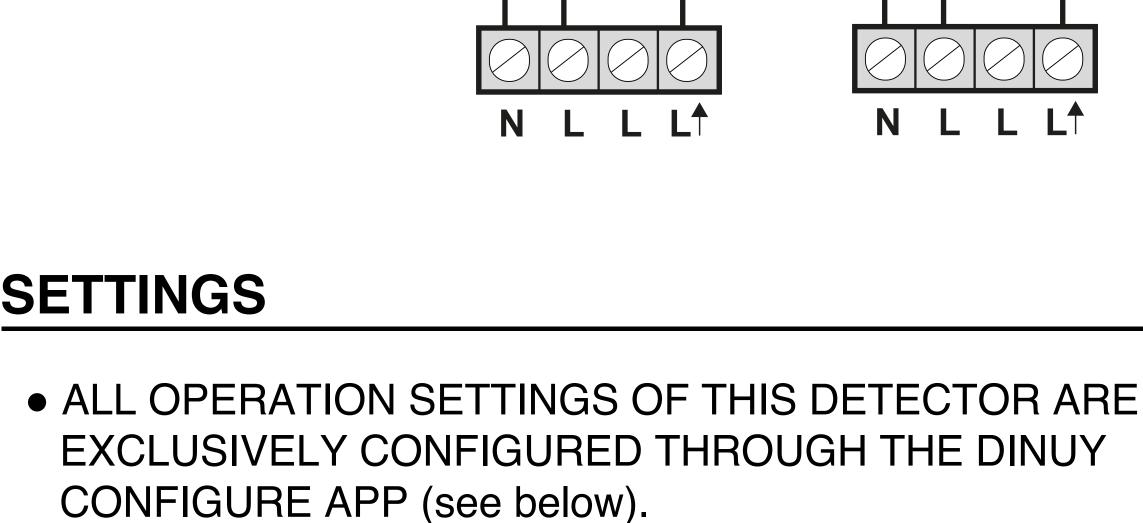
movement. Follow one of the following diagrams to make the connection: - Simple installation of a single detector:

time, the device activates its output and does not respond to

- 230V~
 - 50/60Hz



Load



To consult about the installation of the App, menus, application of

the configuration, or the resolution of problems related to the

App.

- 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
- 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.

new movement is detected, the timing will begin again.

After the first detection, the time will be reset and, each time a

Its function is to set the maximum luminosity value, above

brightness level is exceeded while the lighting is activated

which the detector will not activate the load despite detecting

movement. Furthermore, in mode Presence Detector if the set

(presence of people), the load will be automatically deactivated.

- Sensitivity Adjustment

Medium

Very low

Low

FUNCTION TEST

Factory setting: Very High.

night.

- Brightness Adjustment (LUX)

Factory setting: Disabled.

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

adapt the operation to, for example, unstable environments. You can choose between 5 adjustment options: Very High High

This parameter allows you to limit the detection range and

NOTE

both when the load is on and off.

coverage area according to needs.

the detector when it is first connected.

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

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

Once the detector is connected to the power supply, it is

This red LED will light up whenever motion is detected.

The purpose of this test is to check and adjust the coverage area of

- 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

A cover shutter is included in the same detector box, which allows

In the event that the default detection area of the detector is too

easily reduced simply by using the shutter covers.

you to exclude areas from the detection area, as well as reduce the

large, or it is detected in areas that are not desired, this area can be

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**

COVER SHUTTER

PROBLEM RESOLU

Properly power The lamps do No voltage the detector not turn on reaching the detector

Bad connection

Poorly adjusted LUX

Defective charge

Very high

temperature

ambient

Check the

follow the

diagram

instructions

connections and

Check Brightness

Adjustment setting

Replace the load

temperature to

reduce and test

the detector

APP Dinuy

Configure.

change the

in the

Make sure you

Output Polarity

ADVANCED MENU

Wait for the ambient

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

The Output

set in reverse

Polarity is

Lamps work

in reverse,

turning on

when they

when they

should be on

should

be off,

and off