

## e-Detector Noiseless

Motion sensor with transistor output for ceiling mounting Product reference: DP.801110-010

e-Detector Noiseless is a motion sensor for ceiling mounting, used to detect motion through the detection of heat changes coming from bodies in motion in the covering area. The device is including an infrared sensor that detects with high precision any movement in a room or zone in a building.

The product includes an optocoupled transistor output that avoids any noise of the traditional mechanical relays, and has been designed to be connected at a voltage digital input of a system to monitor the motion detected.

## Instruction Sheet



#### Product description

e-Detector Noiseless is a motion sensor for celling mounting used to detect people or bodies in motion in a building. The device has an infrared motion sensor that detects any movement with a very high precision and a transistor output type is used to connect the device to a voltage digital input, that activates every time a valid movement is detected. The output becomes active during 5 seconds after a valid detection. The device has a potentiometer to adjust the sensitivity of the motion sensor providing a very flexible device installable in any environment.

A red LED indicator in the front cover of the device blinks shortly when the device is detecting motion. The pushbutton is used to disable the LED indictor function, avoiding lighting it when a movement is detected. To do this, press the front pushbutton between 2 to 5 seconds to enable/disable this function.

#### Mounting instructions

The device has an enclosure for flush mounting on roof ceilings.

Mounting instructions:

- 1. Drill a 65mm diameter hole on the ceiling.
- 2. Connect wires on the correct terminals:
  - Connect the power supply to the  $+/\sim y-/\sim$  terminals.
  - Connect the transistor output + and to the digital input terminals, respecting the polarity.
- 3. Adjust sensibility detection potentiometer on the side of the device, to the desired value.
- 4. Clip the springs and insert the product into the hole, releasing the springs when placed in the hole.
- 5. Power up the supply voltage and check the red LED indicator is switched on during some seconds (warm up time).

# Caution:

- The device can't be installed over shelves, behind curtains, near heat/cool air handling units and avoid direct sun radiation over the device.
- Disconnect the device from the power supply before mounting or moving the sensor.
- Do not leave cables peeled or turned around the device.
- · Do not connect the device with the hands wet.
- Do not open or drill the device

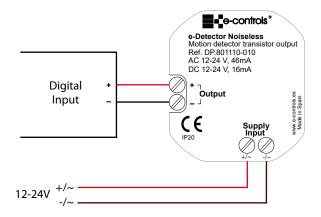
Lateral view

sensitivity

adjustment

- Keep the device and cables away from humidity and dust.
- Clean the front cover with a water moisture soft cloth.

#### Wiring diagram and mechanical description

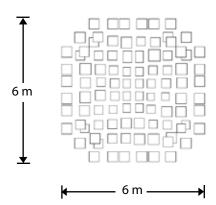


# Motion sensor Pushbutton Motion Motion indicator

Front view

### **Detection diagram**

Plan view (installed at 2,5 mts high)



## Coverage area table (\*)

Altura Height (m)	Diámetro Diameter (m)	Area Area (m²)
2,5	6	28
3,0	6,8	37
5,0	11	104
7,0	16	204
10,0	23	416

(\*) At optimal sensitivity conditions

#### Features

Supply power Operating voltage	Mechanical featuresDimmensions.80x50mm (ØxH)Weight70 gColour (front)RAL 9016Enclosure materialPPTerminalsScrew typeWire section.0,5 mm² - 2,5 mm² (14 AWG)TemperatureOperating.0°C to +50°C (32°F to 104°F)Operating.20°C to +85°C (-4°F to +185°F)Humidity (no condensation)Operating10% to 90% RH at 50°COperating.10% to 90% RH at 50°CStorage.95% RH at 50°CProduct Family Standards.95% RH at 50°CAutomatic electrical controls for household and similar useEN 60730-1CE Conformity.EN 60730-1Low Voltage Directive.2006/95/ECElectromagntic Compatibility Directive.2004/108/ECMarking.CE
Stand-by state (no detection)	Standard
Pushbutton Long push LED blink enable/disable	Emissions
Mechanical installationFlush mounting on ceilingInstallationFlush mounting on ceilingFixation2 metal springsHole diameter.65 mmMax ceiling thickness.19 mmInternal height on ceiling.45 mm	<ol> <li>NOTES:         <ol> <li>The device is not intented for use as part of a security system detector.</li> <li>Installer should adjust the sensibility potentiometer to the environment where device will be installated, for an optimal detection of the motion sensor.</li> </ol> </li> </ol>
Product reference e-Detector Noiseless, Motion sensor with optoisolated output	, ceiling mounting DP.801110-010

Related products