

ORBIS®

energía inteligente



# SMART LIGHTING

Range of motion  
and presence detectors

# There are two detection technologies:

## PIR detectors

They detect body heat when moving or walking, making them ideal for installation in small spaces or passageways such as restrooms, doorways, corridors, stairways.

Sensitivity may be compromised when the temperature of the object to be detected is close to the ambient temperature, for example, in the hottest months. Models equipped with a temperature compensating circuit greatly improve detection sensitivity in these situations. The detection beams of the detector will also be influenced, increasing its accuracy when set up to intersect the transverse movement of the subject.



## By operation:

### Motion detectors

If there is not enough natural light and movement is detected, the device activates the lighting and switches it off when it stops detecting movement and the timer ends. Especially suitable for transit areas or short stays such as corridors, stairways, restrooms, etc.

## By type of control:

### On / Off

Equipped with an on / off output relay, they allow the lights to be controlled directly or through the contactor.

### Sensors for LED lamps

The enormous inrush current generated by LED drivers and lamps can cause failure or even breakage of the detector. To avoid this, it is essential to use detectors equipped with zero-crossing technology, which greatly reduces the switching current and ensures a long operating life.

## HF high-frequency detectors

Detect small movements with high precision by emitting ultrasonic signals, perfect for more sedentary activity areas such as offices, waiting rooms, etc.

Ultrasounds pass through non-metallic surfaces allowing them to be hidden on false ceilings, making them ideal for dusty or humid environments such as in the food industry, construction, kitchens and showers; or for aesthetic or security reasons in hotels, offices, homes, industrial buildings, etc.



## Presence detectors

They measure the natural light even when they are switched on and even with continuous movement, they are able to switch off when natural light is above the desired light level, even if there is movement of people. Highly demanded in areas with natural light, such as offices, meeting rooms, classrooms, etc.

## Dynamic lighting control

In offices and buildings with large windows with a large amount of natural light, constant light sensors or dynamic control allow to control the intensity of the artificial lighting, adapting it so that the sum of natural light and artificial light results in the desired intensity.

## Orientation light

Another very interesting function of these detectors is the orientation light function. It prevents us from being left in the dark in a corridor or room, the lighting will be reduced to a minimum safe level. This control is particularly suitable for stairwells, corridors and garages.

# AREAS OF APPLICATION

Entrance halls, porches, storage rooms, landings, short and long corridors, lobbies, restrooms, cleaning rooms, sanitary rooms, wardrobes, changing rooms, entrances to homes, stairs, lifts, industrial buildings, warehouses, loading bays, meeting rooms, classrooms, offices, etc.



**Hotels**



**Offices**



**Restaurants**



**Apartment Buildings**



### **CIRCUMAT PRO CR**

It stands out for its high detection capacity: at a height of 7 m 10 m in diameter, at a height of 3.5 m 30 m in diameter. Plug-in base for faster installation.



### **CIRCUMAT PRO CR 12M**

Installation height up to 12 metres with a diameter of 17 metres. Specially designed for spaces with high ceilings.



### **CIRCUMAT PRO 1-10 V**

Analogue 1-10 V output for dimmable lighting control depending on the amount of natural light. Large detection height of 5 metres with a diameter of 20 metres.



### **DICROMAT + 1-10 V**

Analogue output 1...10 V for dynamic control of lighting according to the amount of natural light. Flush mounting in false ceilings.



### **DICROMAT +CR**

This is the ideal model for installations with long corridors because it allows 4 additional sensors to be added.



### **DICROMAT 2 +CR**

It has two output contacts with different timings. With a single unit we can control lighting and a second circuit such as ventilation, piped music or recording camera. It allows 15 additional DICROMAT SENSOR + sensors to be added, which simplifies and economises the installation.



### **COMBIMAT**

Up to 24 metres detection diameter and input for timed switching from additional external push buttons, ideal for long corridors or stairways. Learning mode to ensure the light level below which the lights are activated.



### **PROXIMAT PRO CR**

**Wall (flat, corner or nook) and ceiling installation.** Up to 30 m detection diameter or 7 m maximum height.



### **ISIMAT +**

**200° pick-up angle with 180° horizontal rotation** of the detector head to direct towards the desired detection area.



### **PROXIMAT**

**Wall, corner or nook installation.**

240° detection angle with 180° horizontal rotation.



### **NEOMAT**

**Elegant design and small dimensions (10 x 10 cm).**

Discreet and ideal for installation in hotels, offices and homes. Installation on flat walls or in angled ones using the included accessory.



### **ORBIMAT**

**Mounted in a 65x65 mm electrical installation box.**

In just a few minutes we can replace the existing manual switch without the necessity of building work. Allows additional pushbuttons so it can work as a staircase timer.



### **MINIMAT**

**Mounting in Italian type electrical box in 3 modules (503) or 4x2 inches.**

Compatible with all the main manufacturers of wiring devices.



### **ECOMAT MINI**

**High-frequency technology detection, greater sensitivity to the slightest movement.**

Can detect without being seen, which is ideal from an aesthetic and security point of view. Detection is improved in closed volumes.



### **COMBIMAT 12 M**

**Specially designed for spaces with high ceilings** such as industrial buildings and warehouses. Can be installed on interior ceiling up to 12 meters high with a detection diameter of 20 meters.



### **COMBIMAT 40.5**

**Rectangular detection area of 40 x 5 meters**, perfect for long corridors in hotels, offices, or residential buildings. Equipped with a relay that improves the maximum switching capacity up to 300 VA for LED lamps or 1.200 VA for fluorescent lamps.



### **ECOMAT MINI 2N**

**High-frequency technology detection, higher sensitivity to the slightest movement.** With orientation light function to avoid being left in the dark in a corridor or room.



### **CIRCUMAT +**

**Attractive design with polished white front.** Small dimensions: 12 cm in diameter and only 2,4 cm high.



### **DICROMAT +**

**Ceiling installation by means of 65 mm drill hole.** Manufactured in polished white with a flat lens with high detection capacity.



### **DICROMAT MICRO**

**Sensor with a diameter of only 16 mm.** Ideal for small spaces such as wardrobes, lifts, home entrances or bathroom cabins.



### **MULTIMAT**

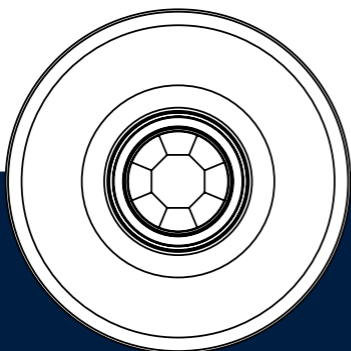
**Installation by means of a plug-in base on a wall, corner, nook or ceiling.** IP 55 protection against dust and water jets.



## THE SMARTEST LIGHTING

Motion or presence detectors are an essential element in any lighting installation because they improve the energy efficiency of the installation, generate savings of 60% on the electricity bill and provide comfort to the user.

In order to offer the best solution in each case, it is important to know the particularities of the place where they are going to be installed and the operating needs.



**CIRCUMAT +**  
Ref. OB137112

The most discrete  
solution for surface  
mounting on  
ceilings

		DETECTION			SETTINGS AND PROTECTION			OUTPUT CONTACT		MAXIMUM LOADS		REMOTE CONTROL		
		ANGLE AND DETECTION RANGE	REGULATION	TECHNOLOGY	TIMING	LIGHT SENSITIVITY SETTING	PROTECTION INDEX	NO.	TYPE	LED	FLUORESCENCE			
PRESENCE	SURFACE	CIRCUMAT PRO CR Ref.: OB134912	30 m	INC	P.I.R.	1 s - 10 min	10 - 1000 LUX	IP 44	1	ON / OFF	500 VA	1200 VA		
		CIRCUMAT PRO CR 12M Ref.: OB134920	17 m	INC	P.I.R.	1 s - 10 min	10 - 1000 LUX	IP 44	1	ON / OFF	500 VA	1200 VA		
		CIRCUMAT PRO 1-10 V Ref.: OB134910	30 m	ACC	P.I.R.	10 s - 30 min	10 - 1000 LUX	IP 20	1	D.L.C.	500 VA	200 VA	NO	
	CEILING	BUILT-IN	DICROMAT + 1-10V Ref.: OB136212	10 m	ACC	P.I.R.	10 s - 15 min.	3 - 2000 LUX	IP 20	1	D.L.C.	500 VA	400 VA	NO
			DICROMAT + CR Ref.: OB134512	7 m	INC	P.I.R.	10 s - 10 min	2 - 2000 LUX	IP 20	1	ON / OFF	500 VA	1200 VA	
			DICROMAT 2+ CR Ref.: OB134612	7 m	INC	P.I.R.	T1: 10 s - 10 min T2: 10 s - 15 min	2 - 2000 LUX	IP 20	2	ON / OFF	500 VA	1200 VA	
	SURFACE / BUILT-IN ELECTRICAL BOX	COMBIMAT Ref.: OB137812	24 m	ACC	P.I.R.	30 s - 30 min	10 - 2000 LUX	IP 20 / IP 54*	1	ON / OFF	300 VA	1200 VA	NO	
		COMBIMAT 12M Ref.: OB137820	20 m	ACC	P.I.R.	30 s - 30 min	10 - 2000 LUX	IP 20 / IP 54*	1	ON / OFF	300 VA	1200 VA	NO	
		COMBIMAT 40.5M Ref.: OB137840		ACC	P.I.R.	30 s - 30 min	10 - 2000 LUX	IP 20 / IP 54*	1	ON / OFF	300 VA	1200 VA	NO	
		COMBIMAT KNX Ref.: OB137850	24 m	ACC	P.I.R.	30 s - 60 min	10 - 2000 LUX	IP 20 / IP 54*		KNX				NO
CONCEALED	ECOMAT MINI 2N Ref.: OB1350122N	10 m	INC	H.F.	5 s - 30 min	5 - 2000 LUX	IP 20	1	D.L.C.	100 VA	NO	NO		
MOVEMENT	SURFACE	CIRCUMAT + Ref.: OB137112	9 m	ACC	P.I.R.	10 s - 30 min	3 - 2000 LUX	IP 20	1	ON / OFF	500 VA	400 VA	NO	
	CEILING	BUILT-IN	DICROMAT + Ref.: OB136112	10 m	ACC	P.I.R.	10 s - 15 min	3 - 2000 LUX	IP 20	1	ON / OFF	500 VA	400 VA	NO
			DICROMAT MICRO Ref.: OB133612	4 m	X	P.I.R.	6 s - 12 min	5 - 3000 LUX	IP 20	1	ON / OFF	50 VA	100 VA	NO
	WALL / CEILING	FLAT WALL	MULTIMAT Ref.: OB134212	F:12 m L:8 m	ACC	P.I.R.	3 s - 30 min	5 - 2000 LUX	IP 55	1	ON / OFF	400 VA	1200 VA	NO
			PROXIMAT PRO CR Ref.: OB134812	30 m	INC	P.I.R.	10 s - 10 min	10 - 1000 LUX	IP 55	1	ON / OFF	500 VA	1300 VA	
			ISIMAT + Ref.: OB134112	F:12 m L:8 m	ACC	P.I.R.	3 s - 30 min	5 - 2000 LUX	IP 55	1	ON / OFF	400 VA	1200 VA	NO
			PROXIMAT Ref.: OB132312	F:12 m L:15 m	INC	P.I.R.	10 s - 10 min	5 - 2000 LUX	IP 45	1	ON / OFF	500 VA	1300 VA	NO
			NEOMAT Ref.: OB131512	11 m	X	P.I.R.	10 s - 15 min	3 - 2000 LUX	IP 54	1	ON / OFF	500 VA	500 VA	NO
	ELECTRICAL BOX	ORBIMAT Ref.: OB132612	6 m	ACC	P.I.R.	30 s - 20 min	5 - 2000 LUX	IP 20	1	ON / OFF	500 VA	1300 VA	NO	
		MINIMAT Ref.: OB135312	7 m	X	P.I.R.	10 s - 3 min	10 - 2000 LUX	IP 20	1	ON / OFF	200 VA	200 VA	NO	
CONCEALED		ECOMAT MINI Ref.: OB135012	10 m	INC	H.F.	5 s - 30 min	5 - 2000 LUX	IP 20	1	ON / OFF	200 VA	160 VA	NO	
ACC	INC	H.F.	P.I.R.	D.L.C.	According EN 60529 * By means of accessory OB137860 COMBIMAT SURFACE ADAPTOR			Indoor	Covered outdoor	Remote Control Available OB134712 MANDO CR				
Accessory	Included	High Frequency	Passive Infrared	Dynamic Lighting Control										



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