

PRODUCT SELECTION GUIDE

Movement and presence detectors

A wide range of versatile and functional products







ABOUT US

Finder was founded in Italy in 1954. Since then it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors. Today, thanks to its global vision, Finder now distributes its products around the world through a network of 27 company-owned subsidiaries and more than 80 trade partnerships.

Finder is an international family made up of more than 1300 individuals, all united by the same values and passion for our products.



14 500

Different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level, light and much more.

OUR PRODUCTS CARRY MORE CERTIFICATIONS THAN ANY OTHER RELAY MANUFACTURER



FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

4

PRODUCTION PLANTS
IN EUROPE

27

SUBSIDIARIES

80+

OFFICIAL
DISTRIBUTORS



LIGHT WHEN YOU NEED IT

MOVEMENT AND PRESENCE DETECTORS

Light has long been synonymous with comfort, safety and security, whether in **offices, apartment buildings** or homes, either **indoors** or **outdoors**.

FINDER movement and presence detectors offer the possibility to have light exactly when it is needed.

As soon as FINDER detectors sense movement within their detection area, they switch the lights on for your comfort and safety wherever you are, i.e. in the office, corridor, staircase, garage or garden. With a product range including 14 different models, FINDER always has the right solution for you. From wall or ceiling mounted to recessed solutions and outdoor mounting options, **Finder has the detector you need for all your requirements.**

MOVEMENT DETECTORS

These detectors are suitable for installation in corridors, staircases, halls, garages, cellars and transit or service areas in general.

PRESENCE DETECTORS

Fitted with a sophisticated ultra sensitive lens, these detectors can even read minor movements of people within their detection area.

This feature makes them suitable in places where lighting controlled by minor movements is required, including offices, school rooms or washrooms.

MOVEMENT DETECTORS FOR OUTDOOR INSTALLATION

Having protection levels of IP 54 and IP 55, these detectors are the ideal solution for outdoor installation in areas such as porches and gardens or in damp or wet indoor areas such as garages, washrooms and changing rooms in gyms.



Presence detector, type
18.5K



Movement detector, type
18.31



Movement detector for out-
door installation, type 18.A1



Easy to
install and
programme



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay

WHY CHOOSE FINDER MOVEMENT AND PRESENCE DETECTORS?

SAFETY

Finder movement detectors are designed to automatically **switch on the lights as soon as someone passes by**. This feature helps avoid the need for switches to control the lights.

COMFORT

All the light you need, only when you need it. This is the philosophy on which Finder designers have developed our movement and presence detectors. Thanks to their wide field of view, highly sensitive lenses and proper integration with the lighting system, Finder detectors are designed to switch on the light(s) at the right time in order for users to enjoy the utmost comfort.

ENERGY SAVING

Finder movement detectors switch on the lights when you access the room and switch them off when you leave: no more lights left on, as is often the case in staircases, washrooms or transit areas.

Needless to say, the immediate result is **energy savings**.



DESIGN & COMFORT

FUNCTIONALITY AND AESTHETICS EVERYWHERE

Made in Italy - Design, engineering and manufacture are the distinguishing values of Finder movement detectors. Specifically designed keeping in mind their place of installation, these devices are compact in size and have a stylish design that fits perfectly in all contexts.

HOW MUCH LIGHT DO YOU NEED?

Finder movement detectors are designed to make your life comfortable and to avoid unnecessary waste of energy. They keep the lighting level in the room at the threshold the user has set up. Dynamic light compensation provides for uninterrupted comfort.

Finder movement detectors are also supplied with a light dependent sensor which prevents the lights from being switched on when natural light is still strong enough. When the day comes, the lights go out automatically and they are switched on again in the evening. The only thing the user needs to do is to enjoy comfort in his or her favourite place!

THE RIGHT MODEL FOR YOU, AT ALL TIMES

The perfect solution for you is always at hand with Finder detectors, thanks to our wide range and flexible applications.



Kit for
ceiling mounting



Kit for
false ceiling
mounting



Kit for
recessed ceiling
mounting



Kit for
recessed wall
mounting



(adjustable)
Kit for
wall mounting



Custom fit beam
limiter



ADVANTAGES FOR THE USER

- Convenient and safe in any type of environment
- Energy saving and cost-effective
- Quality and reliability – Made in Italy
- Compact and essential design



ADVANTAGES FOR THE INSTALLER

- Ultra-quick set up with the APP (only for type 18.51.8.230.B300)
- Finder quality assured
- Installation flexibility: ceiling, wall and recessed mounting options (boxes 60 mm, 502 and 503)
- Products available in BLUETOOTH, KNX and DALI versions

SELECTION OF PROGRAMMING TECHNOLOGY

Presence detectors are available in programmable versions with KNX, DALI or Bluetooth technology - the latter requires downloading the free APP **Finder Toolbox Plus** for iOS and Android devices.



Ceiling-mounted
version
18.51



Recessed version
18.51



Programmable and settable
via Bluetooth technology through the APP
FINDER TOOLBOX PLUS
Available for iOS and Android devices



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Toolbox Plus



18 SERIES

MOVEMENT DETECTORS
FOR EACH AND EVERY NEED



PRESENCE DETECTORS



CORRIDOR



HIGH CEILING MOUNTING/
ESSENTIAL



OPEN SPACE



MODULAR



ADJUSTABLE



OUTDOORS, ADJUSTABLE



OUTDOORS, ADJUSTABLE
PLUS



PRESENCE DETECTORS - INDOORS





LIGHT AT THE RIGHT TIME FOR A BUSY MULTI-FUNCTION, MULTI-PURPOSED BUILDING



ESSENTIAL
Changing rooms
Type 18.31



**OUTDOORS
ADJUSTABLE
PLUS** Type 18.A1



**PRESENCE
DETECTORS**
Conference rooms
Type 18.51



HIGH CEILING ≤ 6 m
Warehouses
Type 18.31...0031



MODULAR
Washrooms
Type 18.91



**OUTDOORS
ADJUSTABLE**
Type 18.11



MODULAR
Small rooms
Type 18.91



**PRESENCE
DETECTORS**
Offices
Type 18.51



CORRIDOR
Areas up to 30m x 4m



OPEN SPACE
Hall
Type 18.61



ADJUSTABLE
Staircases
Type 18.01



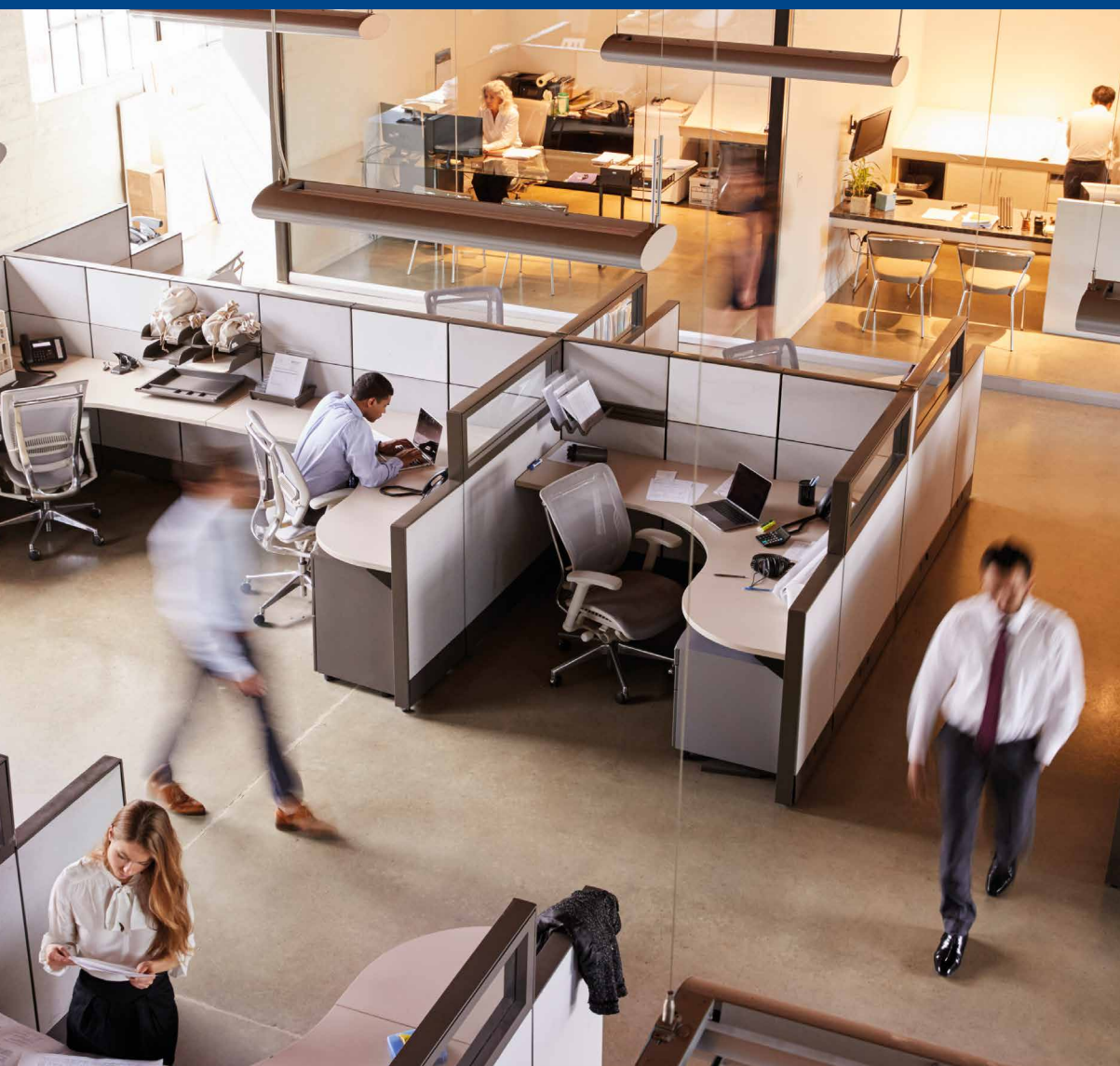
ESSENTIAL
Garages, cellars
Type 18.21



PRESENCE DETECTORS

All presence detectors from the 18.51 series are designed to sense micro movements. They are the ideal solution in offices, conference rooms, classrooms and generally in all places where the need exists to keep the lights on while people are in them.

With their compact and functional design, these products are perfect for any indoor ceiling-mounting application. Looking exactly the same from the outside, they feature version-specific internal technology to offer five different versions.



SELECT THE VERSION OUT OF THE FIVE AVAILABLE OPTIONS TO CREATE YOUR IDEAL SYSTEM.

TECHNOLOGY **Bluetooth™**

TYPE 18.5B



Programmable via
smartphone using the Finder APP
Toolbox Plus and the BLE technology

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Apple is a trademark of Apple Inc. App Store is a service mark of Apple Inc.

TECHNOLOGY



TYPE 18.5D

Three selectable functions:

- constant light level control;
- ON/OFF control with early switch-off warning;
- ON/OFF control with early switch-off warning and courtesy light level.

TECHNOLOGY



TYPE 18.5K

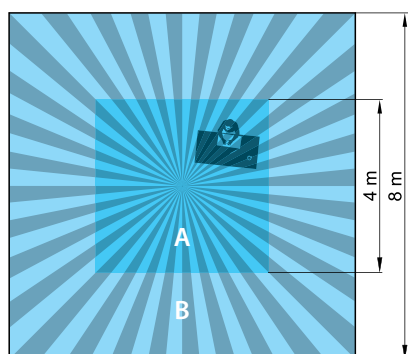
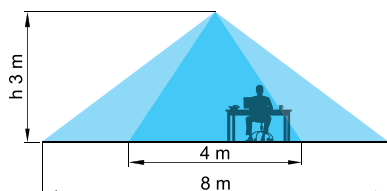
Presence detector for KNX smart home ecosystems

TYPE 18.51 ON/OFF



External push-button feature
Operation in either automatic or
manual mode, dynamic light
compensation

TYPE 18.51 EASY

Operation in automatic mode
keeping the same features as a standard
presence detector



Detection area (all 18.51 models)

-  Zone "A": sensing of micro movements (presence)
-  Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



Kit for
ceiling
mounting



Kit for
false ceiling
mounting



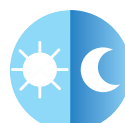
Kit for
recessed
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay



Custom fit beam
limiter

BLUETOOTH TECHNOLOGY

TYPE 18.51.8.230.B300

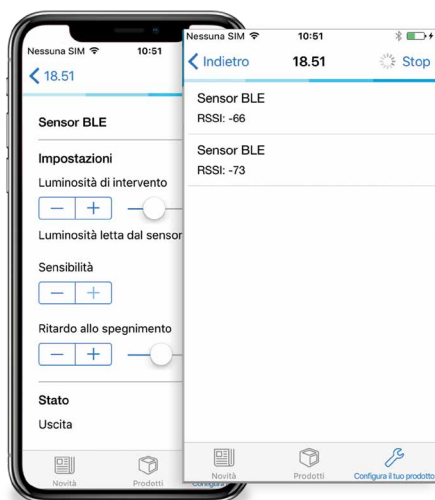
Bluetooth LE (Low Energy) technology enables easy detector setup using a smartphone with either Android or iOS operating system.

Install 18.51 and then download the free application **Finder Plus** from the official Google and Apple stores, and finally set all the parameters.



Specifications

- Detection area up to 64 sq.m: movement detection 8x8 m, presence detection 4x4 m
- Power supply voltage: 110 to 230 V AC (50/60Hz)
- Ambient light threshold range: 4 lx to 1000 lx
- Light OFF delay from 12 s to 25 min
- 1 NO contact, 10A
- Push-in terminals for quick and safe wiring
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C



Detectors may be re-named to more easily associate them with their location.

The following parameters may be set: light level between 4 lux to 1000 lux, delay time from 12 seconds to 25 minutes, and reading sensitivity on three levels.

Whenever a connection is made to a detector, a red LED confirms correct linking and all the set values are thereby shared. The detector responds with two feedback values: the light level read by the light sensor fitted on the device and the status of the contact, whether closed (ON) or open (OFF).

For security reasons, the detectors can also be locked with a selector switch and a 4-digit PIN to prevent the parameters from being changed by unauthorized users.



Toolbox Plus



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DALITECHNOLOGY

TYPE 18.5D.8.230.0000

Detector with DALI technology and three selectable options:

Constant light level control;

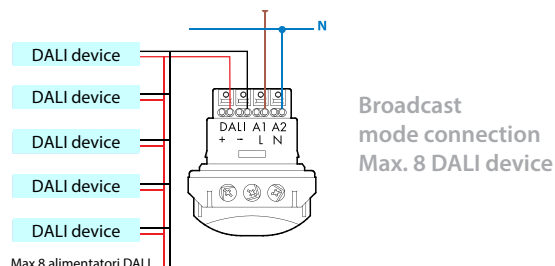
ON/OFF control with early switch-off warning;

ON/OFF control with early switch-off warning and courtesy light level.



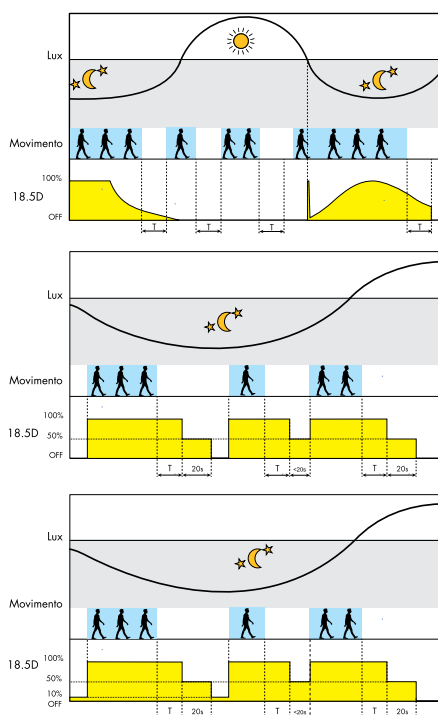
Specifications

- Programmable via DALI interface: possibility to connect up to 8 devices
- Three selectable functions: Comfort, Simplicity & Courtesy
- Detection area up to 64 sq.m: movement detection 8x8 m, presence detection 4x4 m
- Power supply voltage: 110 to 230 V AC (50/60Hz)
- Ambient light threshold range: 10 lx to 800 lx
- Light OFF delay: 10 s to 35 min
- Push-in terminals for quick and safe wiring
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C



Max 8 alimentatori DALI

Functions



Comfort - Constant light level control

This product is designed to set the light level and keep it constant, based on movement detection and daylight - the power of artificial light is either increased or reduced as appropriate.

It is suitable for small offices, classrooms or workplaces. Remarkable energy saving and enhanced comfort are guaranteed.

Simplicity - ON/OFF control with early switch-off warning

This product is designed to work as a simple movement detector and to switch the lights on at 100% power.

It will warn of a pending switch-off by reducing the lighting level to 50% for 20 seconds.

Courtesy - ON/OFF control with early switch-off warning and courtesy light level

If the light level is lower than the stored setpoint, artificial light is activated at 10% power so as to provide for a minimum lighting level.

When movement is detected, the power of the lights is set at 100%. It will warn of a pending switch-off by reducing the lighting level to 50% for 20 seconds, suitable for common areas, lobbies, corridors, elevator zones.

KNX TECHNOLOGY

TYPE 18.5K.9.030.0000

The **KNX protocol** is the most popular international standard for device connection in smart home ecosystems. It is designed for use in residential or industrial buildings to implement flexible systems that are energy efficient and comfortable. Model 18.5K is KNX-certified and it is perfect for integration in KNX smart home systems.



Specifications

- Programmable via an interface
- Two outputs for load control (lighting, HVAC, etc.)
- One output for movement detection
- Master/Slave connection to expand the detection area
- Detection area up to 64 sq.m: movement detection 8x8 m, presence detection 4x4 m
- Ambient light threshold range: 1 lx to 1500 lx
- Light OFF delay: 0.1 s to 18 h
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -5 to +45°C
- Light level and presence detection range
- Ambient light level control ON/OFF
- Light level and movement warning (for safety applications)
- TUV approval

EASY

TYPE 18.51.8.230.0300

ON/OFF

TYPE 18.51.8.230.0040

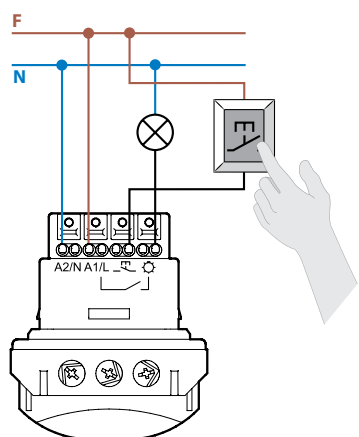


EASY & ON/OFF
detectors

These detectors share the same basic functions, but the ON/OFF model is supplied with an external push-button input to override the current lighting state when needed.

EASY & ON/OFF detector specifications

- Detection area up to 64 sq.m: movement detection 8x8 m, presence detection 4x4 m
- Ambient light threshold range: 1 lx to 500 lx
- Light OFF delay: 12 s to 35 min
- Push-in terminals for quick and safe wiring
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C



ON/OFF - manual mode using external push-button

While operating in "Automatic" mode, the current lighting state can be overridden by pressing an external push-button.

"Manual" mode is active until the timing after the last detected movement has elapsed.

When pressed, the push-button always reverses the status of the contact.

Dynamic light compensation

This function is designed for the ON/OFF model to take into account the ambient light level when the lights are switched on in "Automatic" mode and to contribute to the max. energy saving possible.



Model 18.51 automatically switches the lights on when the light level is low and movement is detected.

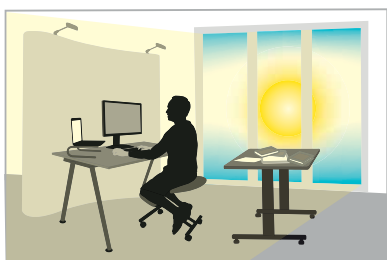


A push-button is fitted to override light switch-off before the lights are de-activated automatically.

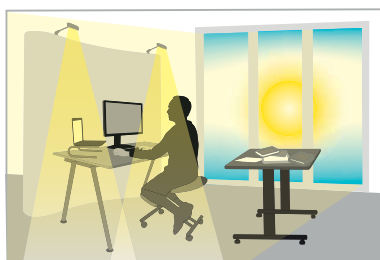
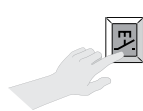


It switches them off when nobody is in the workplace for enhanced energy saving.

OVERRIDDEN SWITCH-ON



The push-button is used to override light switch-on, when needed.



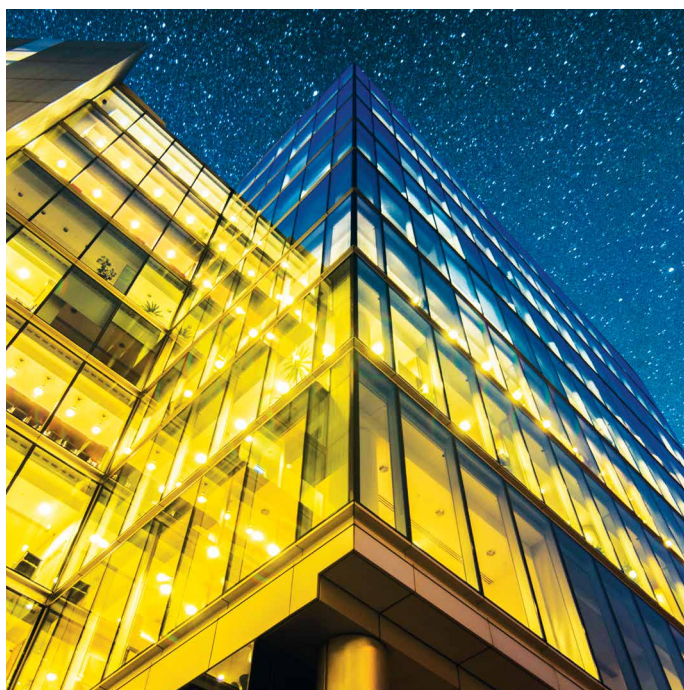
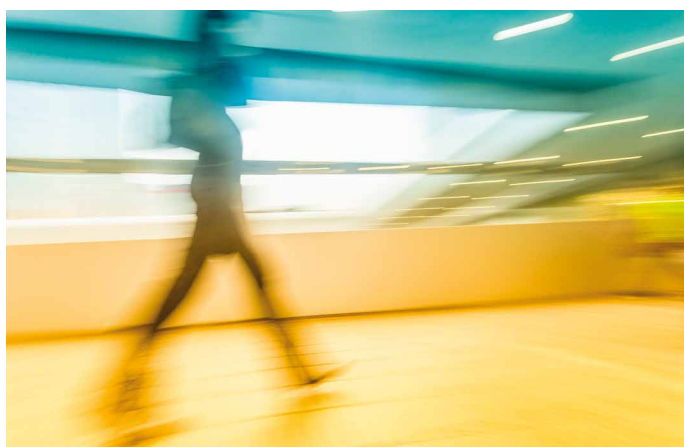


MOVEMENT DETECTORS

Movement detectors are designed to detect when light is needed in all transit or service areas such as staircases, corridors, washrooms and garages for safe and comfortable access.

They are fit for any and all mounting options: ceiling, false ceiling, wall and recessed, and their design is perfectly integrated in all contexts.





SPECIAL DETECTORS CORRIDOR

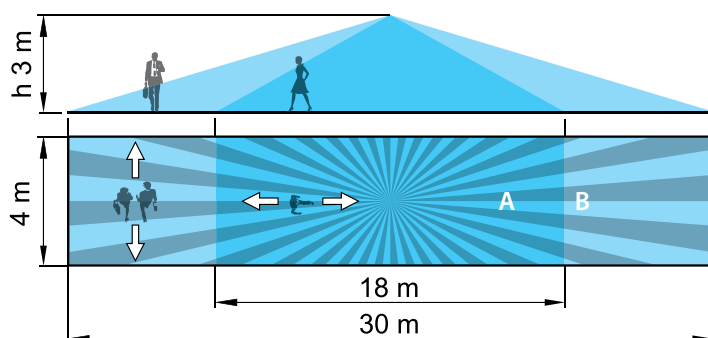
TYPE 18.41.8.230.0300

Specific product for rooms and areas up to 30 metres long x 4 metres wide, such as corridors and common areas of passage.



Specifications

- Ambient light threshold range: 1 lx to 500 lx
- Light OFF delay: 12 s to 35 min
- Push-in terminals for quick and safe wiring
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C
- 1 NO contact, 10A 230V
- Nominal lamp rating 230V:
 - incandescent/halogen W: 1000
 - fluorescent lamp with electronic ballast W: 500
 - fluorescent lamp with electro-magnetic ballast W: 350
 - CFL W: 300
 - LED 230V W: 300
 - halogen or LV LED w/ electronic ballast W: 300
 - halogen or LV LED w/ electro-magnetic ballast W: 500
- AgSnO² contacts



Detection area

- Zone "A": sensing of micro movements (presence)
- Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



Kit for
ceiling
mounting



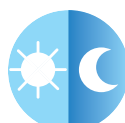
Kit for
false ceiling
mounting



Kit for
recessed
mounting



Suitable for
LED lights
as well



Built-in light
dependent
sensor



Settable light OFF
delay



Custom fit beam
limiter

SPECIAL DETECTORS CORRIDOR - KNX

TYPE 18.4K.9.030.0000

This model has the same functions as type 18.41, in addition to which it can be integrated in a KNX system.

The **KNX protocol** is the most popular international standard for device connection in smart home ecosystems. It is designed for use in residential or industrial buildings to implement flexible systems that are energy efficient and comfortable.



Specifications

- Power supplied through KNX bus
- Detection area 120 sq.m: 30x4 m
- Two areas and two sensors - independent and separate
- Independent setup of movement detection sensitivity in each area
- Independent digital outputs for each sensor/area - to identify the direction of movement
- Light level sensor
- Master/Slave connection to expand the detection area
- Compatible with ETS 4 (or higher)

RECESSED DETECTORS OPEN SPACE

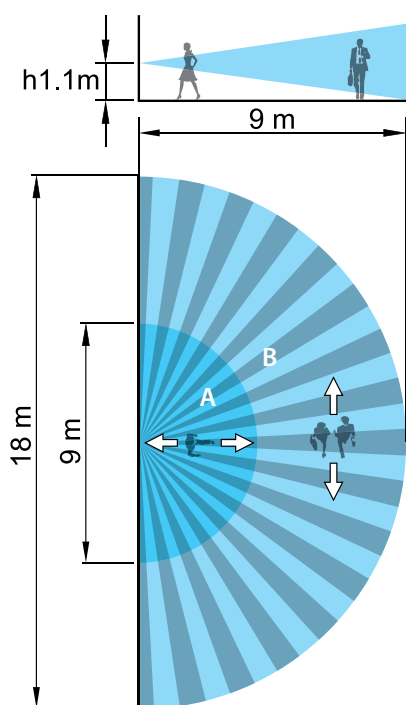
TYPE 18.61.8.230.0300

This model is the ideal solution for wall mounted applications. The two-lens design expands the detection area to 180° and the diameter up to 18 metres. It is compatible with 60 mm junction boxes and box types 502 and 503.



Specifications

- Detection area up to 120 sq.m: 9 metre detection in all directions plus 9 additional metres sideways
- Ambient light threshold range: 1 lx to 500 lx
- Light OFF delay: 12 s to 35 min
- Push-in terminals for quick and safe wiring
- Wall mounted
- Ambient temperature range: -10 to +50°C



Detection area

- Zone "A": sensing of micro movements (presence)
- Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



Kit for
recessed
mounting



Paintable casing



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay

RECESSED DETECTORS MODULAR

TYPE 18.91.8.230.0040 White

TYPE 18.91.8.230.0042 Anthracite grey

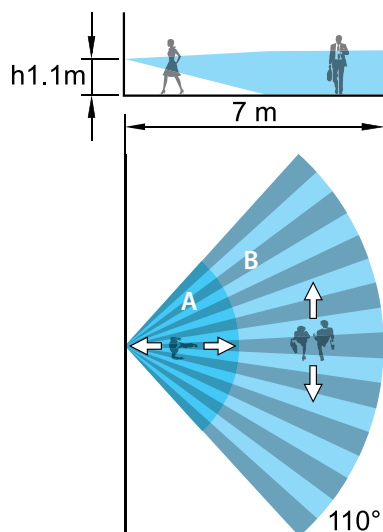
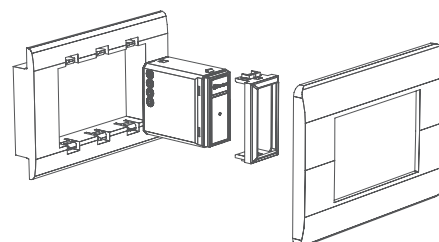
Compact, versatile and unobtrusive, this detector can be mounted in a type 503 box and is compatible with the most popular wiring systems:

AVE, BTicino, Gewiss, Simon-Urmet, Vimar thanks to the adapters that are supplied as standard with the product.



Specifications

- Detection angle up to 110 degrees; detection range up to 7 metres
- Ambient light threshold range: 5 lx to 500 lx (anthracite grey); 6 lx to 600 lx (white)
- Light OFF delay: 10 s to 20 min
- Screw terminals
- Recessed mounting
- Ambient temperature range: -10 to +50°C
- Available in colours anthracite grey and white
- Suitable for connection to an external override pushbutton



Detection area

- Zone "A": sensing of micro movements (presence)
- Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



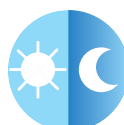
Module
for recessed
box



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay



Manual timer
control possible

ESSENTIAL

TYPE 18.21, ceiling mounting

TYPE 18.31, false ceiling mounting



ESSENTIAL
(ceiling-mounting)



ESSENTIAL
(false ceiling-mounting)

The differentiating element of these two detectors is the mounting: one is for ceiling mounting and the other is for recessed or false ceiling mounting.

Specifications

- Detection area up to 50 sq.m: detection diameter 5 metres in all directions plus 3 additional metres for sideways movement detection
- Ambient light threshold range: 5 lx to 350 lx
- Light OFF delay: 10 s to 12 min
- Screw terminals
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C
- 1 NO contact, 10A 230V
- Nominal lamp rating 230V
 - incandescent/halogen W: 1000
 - fluorescent lamp with electronic ballast W: 500
 - fluorescent lamp with electro-magnetic ballast W: 350
 - CFL W: 300
 - LED 230V W: 300
 - halogen or LV LED with electronic ballast W: 300
 - halogen or LV LED with electro-magnetic ballast W: 500
- AgSnO² contacts

THE ESSENTIAL MODEL OFFERS SIX DIFFERENT VERSIONS.

18.21 CEILING MOUNTING

Type 18.21.8.230.0000 - 120 to 230 V AC, (50/60Hz) live contact

Type 18.21.8.230.0300 - 120 to 230 V AC, (50/60Hz) volt-free contact

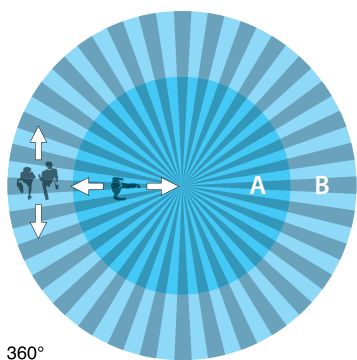
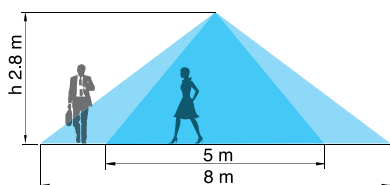
Type 18.21.0.024.0300 - 24 V AC (50/60Hz)/DC volt-free contact

18.31 FALSE CEILING / RECESSED MOUNTING

Type 18.31.8.230.0000 - 120 to 230 V AC, (50/60Hz) live contact

Type 18.31.8.230.0300 - 120 to 230 V AC, (50/60Hz) volt-free contact

Type 18.31.0.024.0300 - 24 V AC (50/60Hz)/DC volt-free contact



Detection area

- Zone "A": sensing of micro movements (presence)
- Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



Kit for
ceiling-
mounting



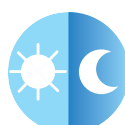
Kit for
false ceiling-
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay



Custom fit beam
limiter

SPECIAL DETECTORS FOR HIGH CEILING

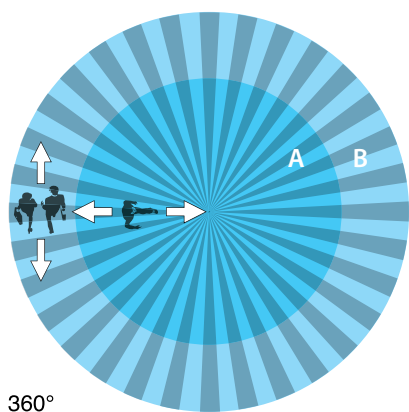
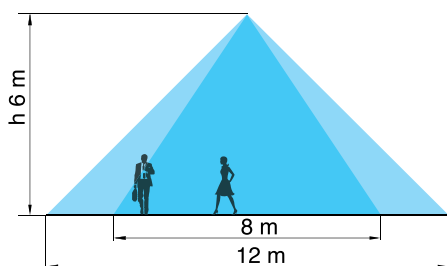
TYPE 18.31.8.230.0031

This product was specifically designed for rooms with a high ceiling (up to 6 m).



Specifications

- Detection area up to 110 sq.m: detection diameter 5 metres in all directions plus 4 additional metres for sideways movement detection
- Ambient light threshold range: 5 lx to 350 lx
- Light OFF delay: 30 s to 35 min
- Screw terminals
- Ceiling, false ceiling or recessed mounting
- Ambient temperature range: -10 to +50°C



Detection area

- Zone "A": sensing of micro movements (presence)
- Zone "B": sensing of wider movements (movement)



Easy to
install and
programme



Kit for
ceiling-
mounting



Kit for
false ceiling-
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay



Custom fit beam
limiter

ADJUSTABLE

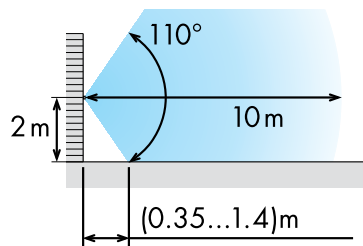
TYPE 18.01.8.230.0000

Wall mounted and directionally adjustable

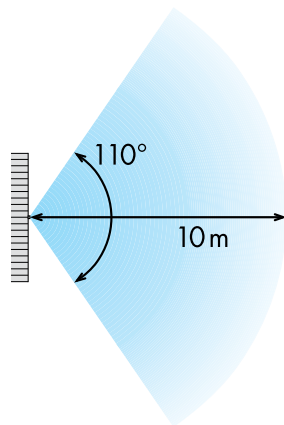


Specifications

- Detection angle up to 110 degrees; detection range up to 10 metres
- Ambient light threshold range: 5 lx to 350 lx
- Light OFF delay: 10 s to 12 min
- Screw terminals
- Wall-mounting
- Ambient temperature range: -10 to +50°C



Detection area (side and plan view)



Easy to
install and
programme



Adjustable Wall
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay

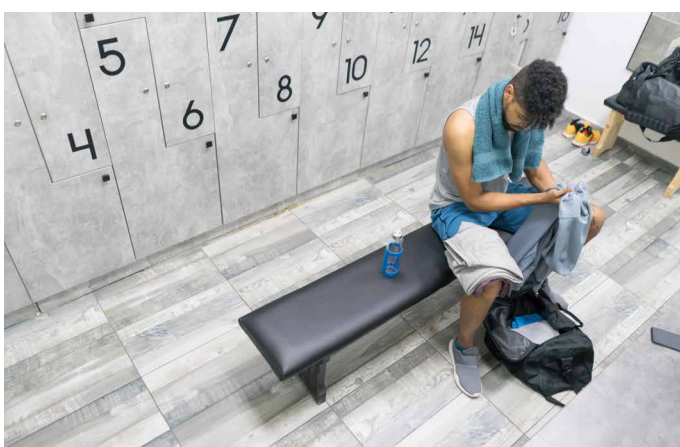


OUTDOOR DETECTORS

Functionality and comfort guaranteed in outdoor, wet or damp spaces, including garages, cellars, washrooms and changing rooms in gyms.

These detectors are the ideal solution for wall-mounting and they are adjustable.





OUTDOORS - ADJUSTABLE

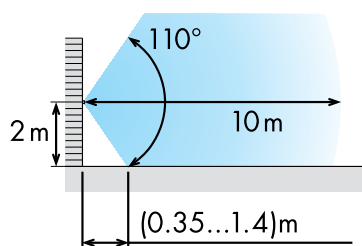
TYPE 18.11.8.230.0000

This movement detector has a clean and functional design and is suitable for outdoor applications.

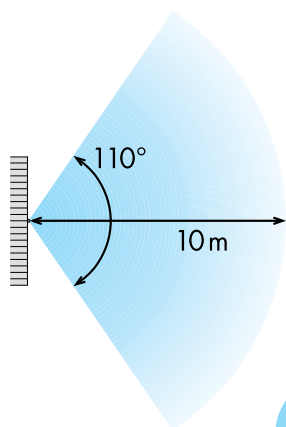


Specifications

- Detection angle 110 degrees; detection range up to 10 metres
- Ambient light threshold range: 5 lx to 350 lx
- Light OFF delay: 10 s to 12 min
- Screw terminals
- Wall-mounting, outdoors
- Ambient temperature range: -30 to +50°C
- Level of protection IP 54
- 1 NO contact, 10A 230V
- Nominal lamp rating 230V:
 - incandescent/halogen W: 1000
 - fluorescent lamp with electronic ballast W: 500
 - fluorescent lamp with electro-magnetic ballast W: 350
 - CFL W: 300
 - LED 230V W: 300
 - halogen or LV LED with electronic ballast W: 300
 - halogen or LV LED with electro-magnetic ballast W: 500
- AgSnO₂ contacts



Detection area (side and plan view)



Easy to
install and
programme



Adjustable Wall
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay

OUTDOORS - ADJUSTABLE PLUS

TYPE 18.A1.8.230.0000

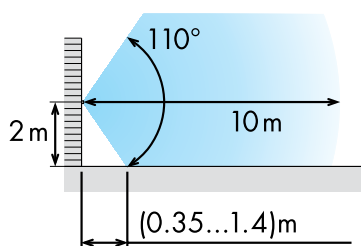
The compact body of this outdoor detector makes it the perfect solution for quick and efficient mounting.



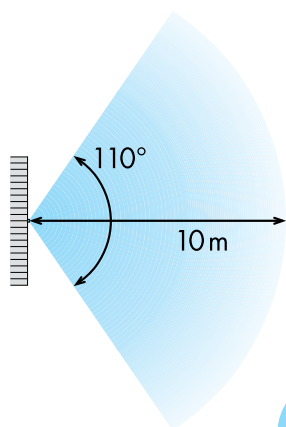
IP 55

Specifications

- Detection angle 110 degrees; detection range up to 10 metres
- Ambient light threshold range: 5 lx to 1000 lx
- Light OFF delay: 10 s to 20 min
- Push-in terminals for quick and safe wiring
- Wall-mounting, outdoors
- Ambient temperature range: -30 to +50°C
- Level of protection IP 55
- 1 NO contact, 10A 230V
- Nominal lamp rating 230V:
 - incandescent/halogen W: 1000
 - fluorescent lamp with electronic ballast W: 500
 - fluorescent lamp with electro-magnetic ballast W: 350
 - CFL W: 300
 - LED 230V W: 300
 - halogen or LV LED with electronic ballast W: 300
 - halogen or LV LED with electro-magnetic ballast W: 500
- AgSnO² contacts



Detection area (side and plan view)



Easy to
install and
programme



Adjustable Wall
mounting



Suitable for
LED lights
as well



Settable ambient
light
threshold



Built-in light
dependent
sensor



Settable light OFF
delay

findernet.com

