

Lighting management

# Detection solutions



**:hager**



# Manage the lighting in your buildings effectively

The construction sector accounts for 20% of greenhouse gas emissions. Lighting represents over 10% of total annual electricity consumption. The 2020 Environmental Regulation (RE2020), in force since 1 January 2022, prioritises energy efficiency and reducing the carbon intensity of energy.

In this environmental and regulatory context, constraints on lighting management are a particular priority for residential and commercial buildings alike. For example, it must be possible to turn off lights in the various common areas of unoccupied commercial premises.

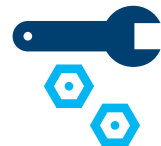
Our range of detectors lets you choose the most effective way to manage lighting and meet these requirements.



**Detection  
performance**



**Discreet  
results**



**Easy  
installation**

## Overview of the ceiling range

# Different options for a clearer view in any situation

Our detectors allow you to manage and automate lighting in residential and commercial buildings easily and efficiently. You can choose from a complete range of high-performance presence and motion detectors.

### Basic detectors 6 m zone



#### The entry-level solution

- Integrated motion and presence detection
- Detection perimeter: 6 m
- Flush mounted or surface mounted
- Available in ON/OFF version



Catalogue references  
**EE804A, EE805A**

### Mini detectors 10 m zone



#### The discreet solution

- Integrated motion and presence detection
- Detection perimeter: 10 m
- Flush mounted
- Available in ON/OFF version



Catalogue references  
**EER501**

## Large area detectors 20 m zone

### The right solution for commercial buildings



- Integrated motion and presence detection
- Detection perimeter: 20 m
- Flush mounted or surface mounted
- Available in ON/OFF, or DALI versions



Catalogue references  
EER503/513, EED503/513

## Corridor detectors 30 x 5 m zone

### The right solution for high traffic areas



- Motion detection
- Detection perimeter: 30 x 5 m, specially designed for high traffic areas.
- Flush mounted or surface mounted
- Available in ON/OFF, or DALI versions



Catalogue references  
EER505/515, TXC515,  
EED505 - 515

## High bay detectors 22 x 12 m zone

### The right solution for high ceilings



- Motion detection
- Detection perimeter: 22 x 12 m, specially designed for warehouses and high-ceilinged buildings
- Flush mounted
- Available in ON/OFF, or DALI versions



Catalogue references  
EER518, EED518

## Environment

# A range designed to suit all sites

Our detectors adapt to suit different environments, with options that include presence and/or motion sensors plus a choice of flush or surface-mounting. We also offer specific systems for buildings with highceilings and a very discreet mini version.



### Private houses

- Entrance
- Hallway
- Basement and garage

Recommended range:  
**Basic and mini**



### Multi-occupancy dwellings

- Common areas:  
entrance, hallway and staircase
- Garage blocks

Recommended range:  
**Basic, 20 m, corridor**





## Offices

- Office floors
- Meeting rooms
- Individual offices
- High traffic areas

Recommended ranges:

**Basic, mini,  
large area, corridor**



## Warehouses, supermarkets

- High traffic areas
- Stockrooms/storage areas

Recommended range:

**High bay**



## DALI model

The DALI range is perfect for managing the finer details of lighting: Colorimetry, power, white temperature, etc.

Why choose our solution?

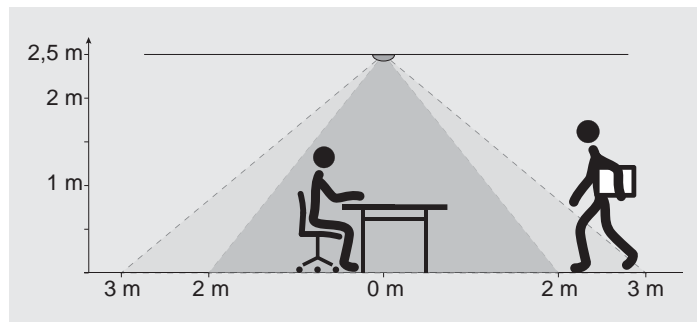
# Choose a solution that's both simple and effective

01

## Detection performance

The sharp perimeter and increased sensitivity ensure optimal detection.

The basic, mini and 20 m versions incorporate both presence and motion sensors for greater efficiency.



02

## A perfect result

Discreet design with almost invisible mounts.

Our patented claws won't damage ceilings, and the zone blocking stickers to place on the lens will ensure a professional result.

The mini version is ideal for areas requiring discretion.

03

## Ease of use

### Easy to install

thanks to our patented claw fixings designed for easy assembly, disassembly and adjustment.



### Easy cable connections

with horizontal or vertical infeeds.





## For the 20 m options, corridor, flush mounted



### Claw fittings

- Held outside of the ceiling for easy configuration
- Ceilings are not damaged, even if the device should come loose
- Comfortable grip, easy and safe to install

- Ensures cable infeeds are held securely.

### Quick connect terminals

- For tool-free cable fixing.

### Loop through terminals

- So you can connect several lighting circuits.

### Protective bracket

- To secure access to terminal blocks.
- Compliant with EN 60669-2-1

### Supplied with tightening clamp

## For the 20 m options, corridor, high bay, surface mounted



### Connection base and sensing head can be separated

- Practical adjustment at floor level.
- Head and base clip together easily.
- Sensing head can be changed on its own.

### Mounting screws and "direction of installation" sticker supplied

- For practical and error-free installation, particularly for the corridor and hall options that are specific to motion detection.



## Installation

# Install with ease

## Flush mounted

### Hole diameter



Basic: 73 mm



Mini: 51/54 mm



20 m: 68 mm

### The connection



Screwless terminal



With loop through function



Choice of master/slave/override function

### Ceiling mounting



Mounting brackets  
20 m and corridor



Basic and mini  
mounting brackets



Settings accessible  
from the side

## Surface mounting

### The connection



Screwless terminal



With loop through function



Choice of master/slave/override function

### Ceiling mounting

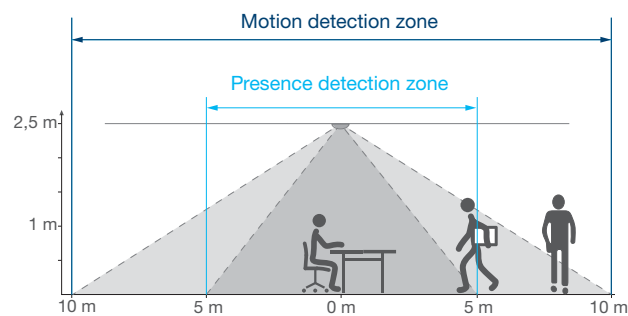


Base and sensing head can be separated



Settings accessible from the side of the sensing head

## Motion detection/ presence detection



## Service and tools

# Always there to help



### Local support

We are where you are. Benefit from our expert help at any point in your project; our regional sales and technical teams are there for you.  
customer.service@hager.ie  
technical.service@hager.ie



### hager.ie/detectors


Find installation tutorials and technical support on [hager.ie/detectors](https://www.hager.ie/detectors)



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-  [twitter.com/HagerIreland](https://twitter.com/HagerIreland)

# Equivalents of new ceiling detectors

## ON/OFF

<b>EE804A</b>	ON/OFF	Flush mounted	Mini Ø 10 ON/OFF	<b>EER501</b>	ON	Flush mounted
<b>EE805A</b>	ON/OFF	Flush mounted				
<b>EE815</b>	ON/OFF	Flush mounted				
			Large area Ø 20 m ON/OFF flush mounted	<b>EER503</b>	ON	Flush mounted
			Corridor 30 x 5 m ON/OFF flush mounted	<b>EER505</b>	ON	Flush mounted
			Large area Ø 20 m ON/OFF surface mounted	<b>EER513</b>	ON	Surface mounted
			Corridor 30 x 5 m ON/OFF surface mounted	<b>EER515</b>	ON	Surface mounted
			High ceilings 22 x 12 m ON/OFF surface mounted	<b>EER518</b>	ON	Surface mounted

## DALI

<b>EE816</b>	DALI	Flush mounted	Large area Ø 20 m ON/OFF flush mounted	<b>EED503</b>	DALI	Flush mounted
			Large area Ø 20 m DALI surface mounted	<b>EED513</b>	DALI	Surface mounted
			Corridor 30 x 5 m DALI surface mounted	<b>EED515</b>	DALI	Surface mounted
			High ceilings 22 x 12 m DALI surface mounted	<b>EED518</b>	DALI	Surface mounted

# How to choose the right detector

Defining exactly what you need from your detector is essential in choosing the right model. Just ask yourself 5 quick questions.

## 01 Where will the detector be used?

The first thing to ask is where the detector is going to be used.

- Inside or outside?
- In a small space?
- Large office floor?
- Corridor?
- Spaces with high ceilings

**This question will define the type of product and its detection zone, so you can choose the detector best suited to the area.**

## 02 How will it be installed?

Will the detector be installed on the ceiling, on the wall or in wiring accessories?

Will it be surface mounted or flush mounted?

- Ceiling mounted/wall mounted/in wiring accessories?
- Surface mounted/flush mounted?

**The type of fixings and cable infeeds will determine the specific assembly.**

**Note that the type of assembly may depend on the application.**





### 03

## What do you want the detector to do?

How will the installation be controlled?

Will the detector be the master or slave in the installation?

And will it have a pushbutton override?

- Master?
- Slave?
- With override?

**Each detector comprises all or some of these functions.**

**So it's important to define exactly what you need so you can choose the right detector.**

### 04

## What type of application should I go for?

Two control technologies used for detection in buildings.

- ON/OFF
- DALI

**The ON/OFF versions will generally be used in traditional installations while the DALI version is more suitable for smart buildings.**

### 05

## How is the target area used?

Are there lots of comings and goings or are people generally sitting quietly, like in an office?


































- Motion?
- Motion and presence?

**Depending on the answer, you can decide whether to opt for a motion-only detector, or a motion and presence system that also detects micro-movements.**
















# Selection guide

Easily find the right [option](#) to suit your application

								
	Installation							
	Ceiling, flush mounted				Ceiling, surface mounted			
Application	EE805A	EER501	EER503	EER505	EE804A	EER513	EER515	EER518
Entrances								
Small offices								
Sanitary facilities Changing rooms Machine rooms								
Large offices Meeting rooms								
Office floors Reception rooms								
Class rooms								
High traffic areas Corridors Stairwells								
Halls, Warehouses High-ceilinged buildings, Sports centres								
Covered parking areas								



Ceiling, flush mounted		Ceiling, surface mounted		
EED503	EED505	EED513	EED515	EED518
				
				
				
				
				
				

# Overview of the range

	Versions	Basic 6 m	Mini 10 m	Large area 20 m	
<b>Communication</b>					
ON/OFF 2 wires					
ON/OFF 3 wires	EE805A	EE804A	EER501	EER503	EER513
DALI			EED501	EED503	EED513
<b>Mounting</b>					
Flush mounted	•		•	•	
Surface mounted		•			•
Wiring accessories (45x45)					
Wall mounted					
<b>Application</b>					
Round area	•	•	•	•	•
Specially for offices (square)			•	•	•
Specially for corridors					
High ceilings					
Discreet version			•		
Outside application					
<b>Detection</b>					
Detection angle	360°	360°	360°	360°	360°
Mounting height	2.5 – 3.5 m	2.5 – 3.5 m	2.5 – 3.5 m	2.5 – 3.5 m	2.5 – 3.5 m
Detection zone	Ø 6 m	Ø 6 m	Ø 10 m	Ø 20 m	Ø 20 m
Square office area			7 x 7 m	14 x 14 m	14 x 14 m
<b>Function</b>					
Motion	•	•	•	•	•
Presence	•	•	•	•	•
Brightness	•	•	•	•	•
<b>Use</b>					
Master function			•	•	•
Slave function	•	•	•	•	•
<b>Connection</b>					
Quick-connect terminal/screw	Quick	Quick	Quick	Quick	Quick
Loop through terminal			•	•	•
input				•	•
Remote control adjustment	EE807 (installer)EE808 (user)		EE807 (installer) EE808 (user)	EE807 (installer) EE808 (user)	
<b>Technical data</b>					
Ingress/Impact protection	IP21/IK04	IP21/IK04	IP41/IK04	IP41/IK04	IP41/IK04
Mounting hole diameter	Ø 73 mm		Ø 64 mm	Ø 68 mm	
Time delay	5 sec – 30 min	5 sec – 30 min	5 sec – 60 min	5 sec – 60 min	5 sec – 60 min
Breaking capacity	10 A	10 A	10 A	10 A	10 A
Max LED Power	20x20 W	20x20 W	20x20 W	20x20 W	20x20 W

**Corridor**

**High ceilings**

<b>EER505</b>	<b>EER515</b>	<b>EER518</b>
<b>EED505</b>	<b>EED515</b>	<b>EED518</b>
•		
	•	•
•	•	
		•
360°	360°	360°
2.5 – 3.5 m	2.5 – 3.5 m	6 – 9 m
30 x 5 m	30 x 5 m	22 x 12 m
•	•	•
•	•	•
•	•	•
•		•
Quick	Quick	Quick
•	•	•
•	•	•
<b>EE807 (installer)EE808 (user)</b>		<b>EE807 (installer)</b> <b>EE808 (user)</b>
IP41/IK04	IP41/IK04	IP41/IK04
Ø 68 mm		
5 sec – 60 min	5 sec – 60 min	5 sec – 60 min
10 A	10 A	10 A
20x20 W	20x20 W	20x20 W

# Basic version 6 metres



## Motion and presence detector

- For spaces requiring modern, high-performance equipment
- Zero-crossing contact compatible with LED loads
- Removable sensing head on the surface mounted version for easier installation

## Applications

- Residential applications
- High traffic areas
- Entrance
- Small offices
- Hotel rooms

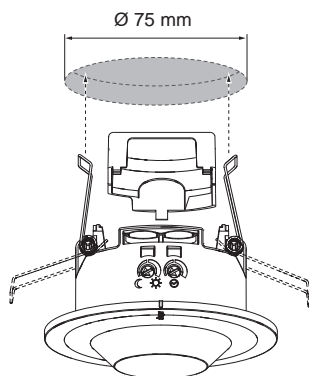
## Product features

	EE804A	EE805A
Motion function	•	•
Presence function	•	•
Brightness function	•	•
Master function		
Slave function	•	•
Manual override via push button		

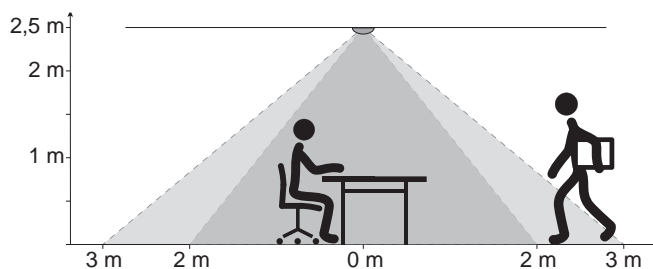
## Options

Description	Mounting	Technology	Cat. ref.
Basic motion/presence detector 6 metres ON/OFF flush mounted	Flush mounted	ON/OFF	EE805A
Basic motion/presence detector 6 metres ON/OFF surface mounted	Surface mounted	ON/OFF	EE804A

## Hole diameter



## Detection zone



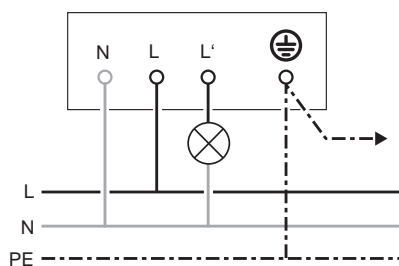


## Technical specifications

	EE804A	EE805A
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz	
<b>Standby power consumption</b>	< 0.3 W	
<b>Switching time</b> Operation Factory setting	Adjustable 5 sec – 30 min ~ 3 min	
<b>Response brightness</b> Factory setting	Adjustable 5 – 1000 Lux 200 Lux	
<b>Recommended installation height</b>	2.5 m – 3.5 m	
<b>Maximum installation height</b>	4 m	
<b>Detection zone motion diameter</b> (fitting height 2.5 m) across the detector Frontal movement towards the detector	6 m 4 m	
<b>Detection zone presence diameter</b> (Fitting height 2.5 m)	4 m	
<b>Detection angle</b>	~ 360°	
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2300 W 20 x 20 W (400 W) 1500 VA 1500 W 1000 W 1000 W	
<b>Operating temperature</b>	-5°C to +45°C	
<b>Storage/transport temperature</b>	-25°C to +70°C	
<b>Ingress/Impact Protection and/ Protection Class</b>	IP21/IK 04 II	
<b>Dimensions</b> Flush mounted version (Ø x H) Surface mounted version (Ø x H)	Ø 100 x 50 mm	Ø 90 x 61 mm
<b>Terminal capacity</b> Screwless terminals (loop through)	1 – 2.5 mm <sup>2</sup>	

## Connection

ON/OFF wiring



# Mini version 10 metres



## Mini motion and presence detector

- For spaces requiring discreet equipment.
- Can be adjusted with the EE807 remote control
- Controlled with the EE808 remote control
- Can function as both master and slave
- Zero-crossing contact compatible with LED loads
- LED status visible on the front of the product

## Applications

- Residential applications
- High traffic areas
- Entrance
- Small offices
- Hotel rooms

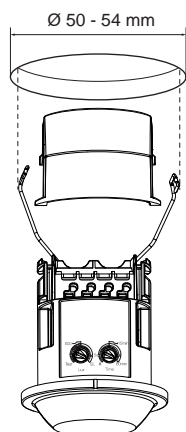
## Product features

	EER501
Motion function	•
Presence function	•
Brightness function	•
Master function	•
Slave function	•
Manual override via push button	•

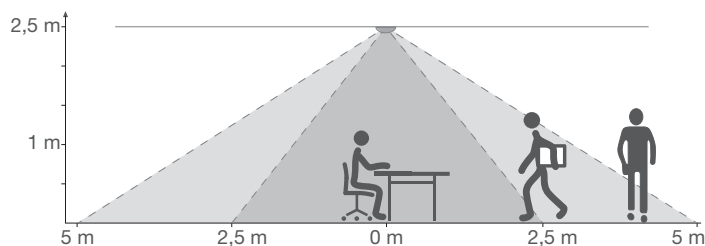
## Options

Description	Mounting	Technology	Cat. ref.
Mini motion/presence detector 10 metres ON/OFF	Flush mounted	ON/OFF	EER501

## Hole diameter



## Detection zone

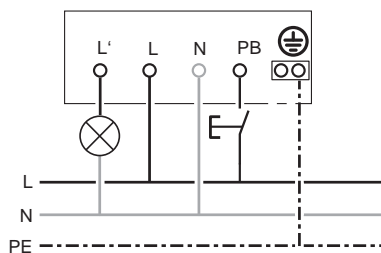


## Technical specifications

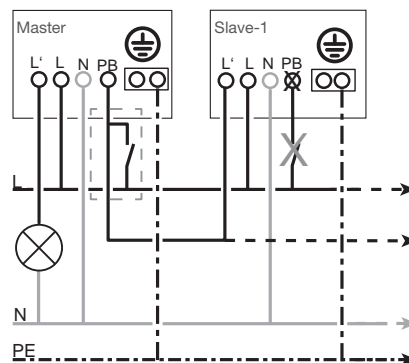
	<b>EER501</b>
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz
<b>Standby power consumption</b>	< 0.5 W
<b>Switching time</b> Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ~ 15 min
<b>Response brightness</b> Factory setting	Adjustable 5 – 2000 Lux 500 Lux
<b>Recommended installation height</b>	2.5 m – 3.5 m
<b>Maximum installation height</b>	4 m
<b>Detection zone motion diameter</b> (fitting height 2.5 m) Across the detector Frontal movement towards the detector	10 m 5 m
<b>Detection zone presence diameter</b> (Fitting height 2.5 m)	5 m
<b>Detection angle</b>	~ 360°
<b>Cable length from the first to the last device</b>	max. 50 m
<b>Number of slave devices per master</b>	max. 10
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2000 W 20 x 20 W (400 W) 1500 VA 1500 W 1000 W/130µF 1000 W
<b>Operating temperature</b>	-5°C to +45°C
<b>KNX information</b> Configuration mode Power supply KNX rated voltage Current consumption	- - - -
<b>Storage/transport temperature</b>	-20°C to +70°C
<b>Ingress/Impact Protection and Protection Class</b>	IP41/IK 04 II
<b>Dimensions</b> Flush mounted version (Ø x H)	Ø 62 x 86.2 mm
<b>Terminal capacity</b> Screwless terminals (loop through)	0.5 – 2.5 mm <sup>2</sup>

## Connection

ON/OFF wiring + Push button



Master/slave wiring (max. slave ≤ 10)



# 20 metre version



## Large area motion and presence detector

- For spaces requiring modern, high-performance equipment
- Can be adjusted with the EE807 remote control
- Controlled with the EE808 remote control
- Can function as both master and slave
- Zero-crossing contact compatible with LED loads
- LED status visible on the front of the product

## Applications

- Commercial applications
- Office floors
- Reception areas
- High traffic areas

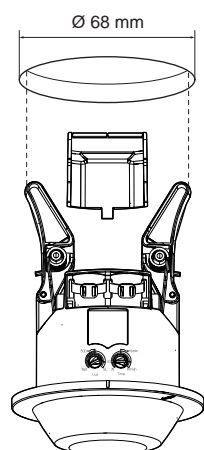
## Product features

	EER503/EER513	EED503/EED513
Motion function	•	•
Presence function	•	•
Brightness function	•	•
Master function	•	•
Slave function	•	
Forcing via wired button	•	•

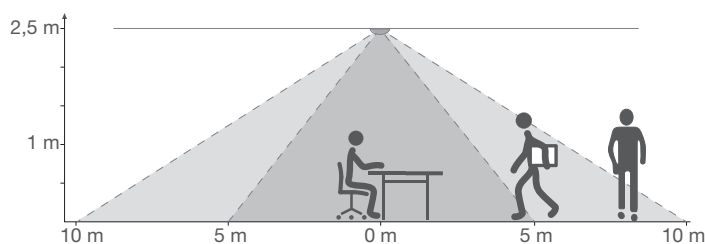
## Options

Description	Mounting	Technology	Cat. ref.
Large area motion/presence detector 20 m, ON/OFF flush mounted	Flush mounted	ON/OFF	<b>EER503</b>
Large area motion/presence detector 20 m, ON/OFF surface mounted	Surface mounted	ON/OFF	<b>EER513</b>
Large area motion/presence detector 20 m, DALI 2 flush mounted	Flush mounted	DALI 2	<b>EED503</b>
Large area motion/presence detector 20 m, DALI 2 surface mounted	Surface mounted	DALI 2	<b>EED513</b>

## Hole diameter



## Detection zone

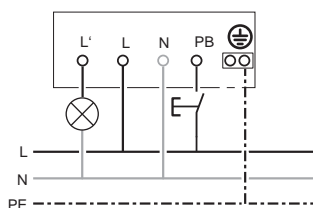


## Technical specifications

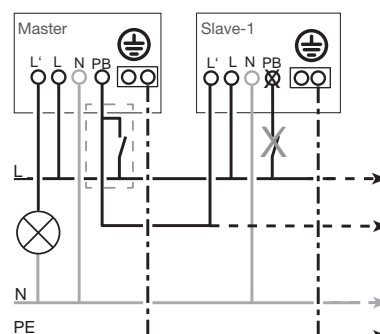
	EER503/EER513	EED503/EED513
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz
<b>Standby power consumption</b>	< 0.5 W	< 0.5 W
<b>Switching time</b> Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ~ 15 min	
<b>Response brightness</b> Factory setting	Adjustable 5 – 2000 Lux 500 Lux	
<b>Recommended installation height</b>	2.5 m – 3.5 m	
<b>Maximum installation height</b>	4 m	
<b>Detection zone motion diameter</b> (fitting height 2.5 m) Across the detector Frontal movement towards the detector	20 m 10 m	
<b>Detection zone presence diameter</b> (Fitting height 2.5 m)	10 m	
<b>Detection angle</b>	~ 360°	
<b>Cable length from the first to the last device</b>	max. 50 m	
<b>Number of slave devices per master</b>	max. 10	
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2000 W 20 x 20 W (400 W) 1500 VA 1500 W 1000 W/130µF 1000 W	- - - - - - -
<b>Number of DALI devices</b>	-	max. 24
<b>DALI information</b> Rated DALI voltage Guaranteed current Maximum current	- - -	16 V 48 mA 250 mA
<b>KNX information</b> Configuration mode Power supply KNX rated voltage Current consumption	- - - -	- - - -
<b>Operating temperature</b>	-5°C to +45°C	
<b>Storage/transport temperature</b>	-20°C to +70°C	
<b>Ingress/Impact Protection and Protection Class</b>	IP41/IK 04 II	
<b>Dimensions</b> Flush mounted version (Ø x H) Surface mounted version (Ø x H)	Ø 85 x 75.9 mm Ø 105 x 59.7 mm	
<b>Terminal capacity</b> Screwless terminals (loop through)	0.5 – 2.5 mm <sup>2</sup>	0.5 – 2.5 mm <sup>2</sup>

## Connection

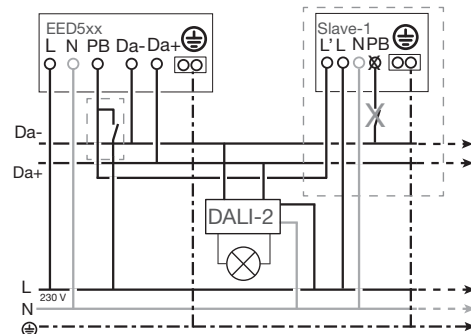
ON/OFF wiring  
+ Push button



Master/slave wiring  
(max. slave ≤ 10)



DALI cabling system  
Slave < 10 devices (EED5XX)



# Corridor version



## Special corridor motion detector

- For spaces requiring modern, high-performance equipment
- Can be adjusted with the EE807 remote control
- Controlled with the EE808 remote control
- Can function as both master and slave
- Zero-crossing contact compatible with LED loads
- LED status visible on the front of the product

## Applications

- Commercial applications
- Hallway
- Multi-residential
- Stairs
- High traffic areas

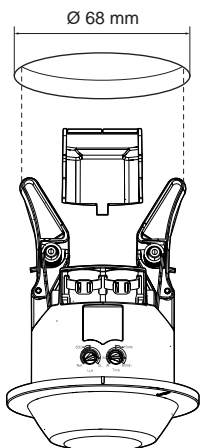
## Product features

	EER505/EER515	EED505/EED515
Motion function	•	•
Presence function		
Brightness function	•	•
Master function	•	•
Slave function	•	
Manual override via push button	•	•

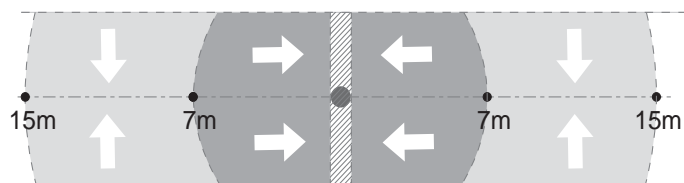
## Options

Description	Mounting	Technology	Cat. ref.
Corridor motion detector 30 x 5 metres ON/OFF flush mounted	Flush mounted	ON/OFF	EER505
Corridor motion detector 30 x 5 metres ON/OFF surface mounted	Surface mounted	ON/OFF	EER515
Corridor motion detector 30 x 5 metres DALI 2 flush mounted	Flush mounted	DALI 2	EED505
Corridor motion detector 30 x 5 metres DALI 2 surface mounted	Surface mounted	DALI 2	EED515

## Hole diameter



## Detection zone





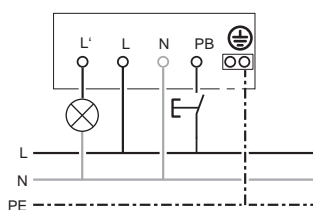
## Technical specifications

	EER505/EER515	EED505/EED515
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz
<b>Standby power consumption</b>	< 0.5 W	< 0.5 W
<b>Switching time</b> Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ~ 15 min	
<b>Response brightness</b> Factory setting	Adjustable 5 – 2000 Lux 500 Lux	
<b>Recommended installation height</b>	2.5 m – 3.5 m	
<b>Maximum installation height</b>	4 m	
<b>Detection zone motion diameter</b> (fitting height 2.5 m) Perpendicular to the detector Frontal movement towards the detector	30 x 5 metres 14 x 5 metres	
<b>Detection angle</b>	~ 360°	
<b>Cable length from the first to the last device</b>	max. 50 m	
<b>Number of slave devices per master</b>	max. 10	
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2000 W 20 x 20 W (400 W) 1500 VA 1500 W 1000 W/130µF 1000 W	- - - - - -
<b>Number of DALI devices</b>	-	max. 24
<b>DALI information</b> Rated DALI voltage Guaranteed current Maximum current	- - -	16 V 48 mA 250 mA
<b>KNX information</b> Configuration mode Power supply KNX rated voltage Current consumption	- - - -	- - - -
<b>Operating temperature</b>	-5°C to +45°C	
<b>Storage/transport temperature</b>	-20°C to +70°C	
<b>Ingress/Impact Protection and Protection Class</b>	IP41/IK 04 II	
<b>Dimensions</b> Flush mounted version (Ø x H) Surface mounted version (Ø x H)	Ø 85 x 75.9 mm Ø 105 x 59.7 mm	
<b>Terminal capacity</b> Screwless terminals (loop through)	0.5 – 2.5 mm <sup>2</sup>	0.5 – 2.5 mm <sup>2</sup>

### Connection

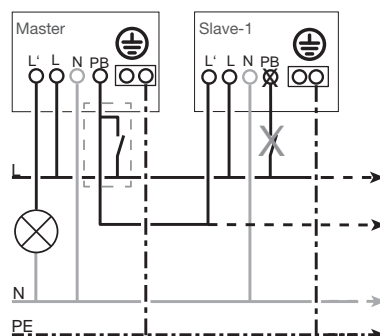
ON/OFF wiring

+ Push button



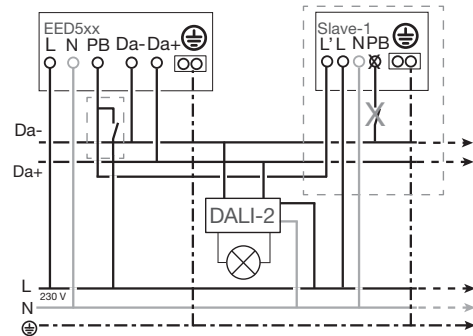
### Master/slave wiring

(max. slave ≤ 10)



### DALI cabling system

Slave < 10 devices (EED5XX)



# Version for high ceilings



## Special corridor motion detector

- For spaces requiring modern, high-performance equipment.
- Can be adjusted with the EE807 remote control
- Controlled with the EE808 remote control
- Can function as both master and slave
- Zero-crossing contact compatible with LED loads
- LED status visible on the front of the product

## Applications

- Commercial applications
- High ceilings
- Storage warehouse

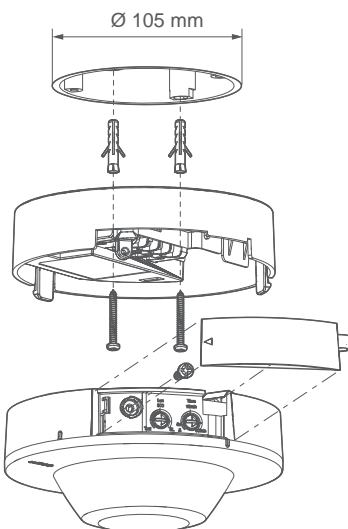
## Product features

	EER518	EED518
Motion function	•	•
Presence function		
Brightness function	•	•
Master function	•	•
Slave function	•	
Manual override via push button	•	•

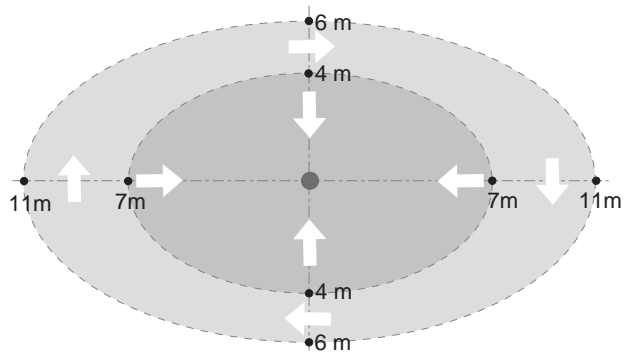
## Options

Description	Mounting	Technology	Cat. ref.
Motion detector for high ceilings 22 x 12 metres, ON/OFF surface mounted	Flush mounted	ON/OFF	EER518
Motion detector for high ceilings 22 x 12 metres, DALI 2 surface mounted	Surface mounted	DALI 2	EED518

## Hole diameter



## Detection zone

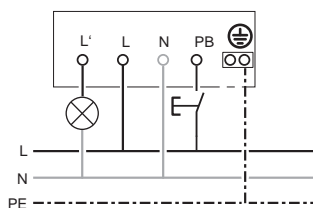


## Technical specifications

	EER518	EED518
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz
<b>Standby power consumption</b>	< 0.5 W	< 0.5 W
<b>Switching time</b> Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ~ 15 min	
<b>Response brightness</b> Factory setting	Adjustable 5 – 2000 Lux 500 Lux	
<b>Recommended installation height</b>	6 m – 9 m	
<b>Maximum installation height</b>	10 m	
<b>Detection zone motion diameter</b> (fitting height 2.5 m) Perpendicular to the detector Frontal movement towards the detector	22 x 12 metres 14 x 8 metres	
<b>Detection angle</b>	~ 360°	
<b>Cable length from the first to the last device</b>	max. 50 m	
<b>Number of slave devices per master</b>	max. 10	
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2000 W 20 x 20 W (400 W) 1500 VA 1500 W 1000 W/130µF 1000 W	- - - - - -
<b>Number of DALI devices</b>	-	max. 24
<b>DALI information</b> Rated DALI voltage Guaranteed current Maximum current	- - -	16 V 48 mA 250 mA
<b>KNX information</b> Configuration mode Power supply KNX rated voltage Current consumption	- - - -	- - - -
<b>Operating temperature</b>	-5°C to +45°C	
<b>Storage/transport temperature</b>	-20°C to +70°C	
<b>Ingress/Impact Protection and Protection Class</b>	IP41/IK 04 II	
<b>Dimensions</b> Surface mounted version (Ø x H)	Ø 105 x 59.7 mm	
<b>Terminal capacity</b> Screwless terminals (loop through)	0.5 – 2.5 mm <sup>2</sup>	0.5 – 2.5 mm <sup>2</sup>

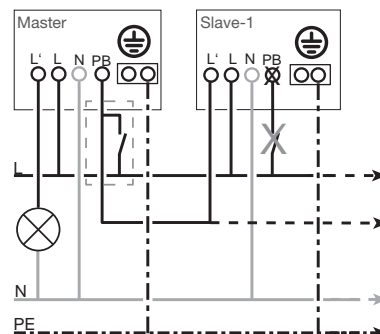
### Connection

ON/OFF wiring  
+ Push button



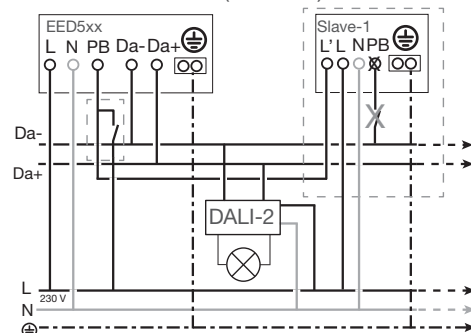
### Master/slave wiring

(max. slave ≤ 10)



### DALI cabling system

Slave < 10 devices (EED5XX)



# Standard wall mounted version



## IP55 motion detector

- For outside spaces or areas subject to high humidity levels
- Can be adjusted with the EE806 remote control
- Can function as both master and slave
- Adjustable detection angle
- Can be angled left or right
- Screwless through terminal

## Applications

- Commercial and residential applications
- Outside use
- Storage warehouse
- Parking areas
- High traffic areas

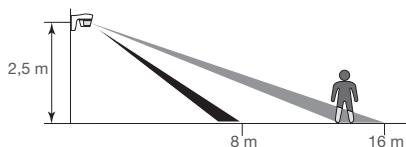
## Product features

	EE820	EE830	EE840
Motion function	•	•	•
Presence function			
Brightness function	•	•	•
Master function			
Slave function	•	•	•
Manual override via push button			

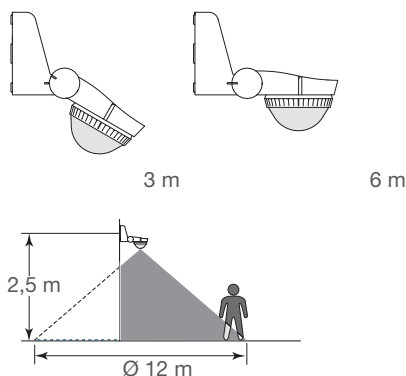
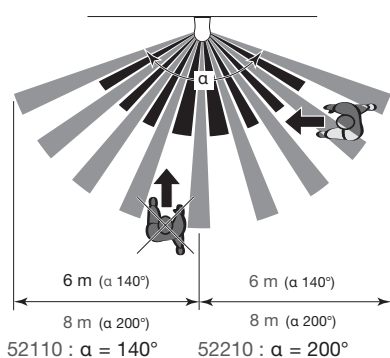
## Options

Description	Mounting	Technology	Cat. ref.
Standard IP55 wall mounted motion detector, 140° ON/OFF	Wall mounted	ON/OFF	EE820
Standard IP55 wall mounted motion detector, 200° ON/OFF			EE830
Standard IP55 wall mounted motion detector, 360° ON/OFF			EE840

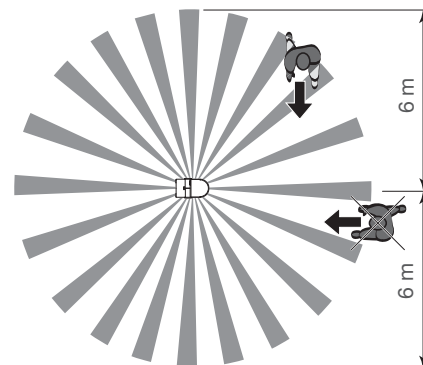
## Detection zone



The optimal installation height is 2.5 m.  
The detection field must remain free.



The optimal installation height is 2.5 m.

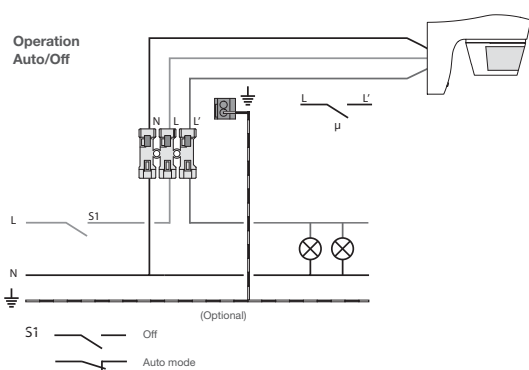


## Technical specifications

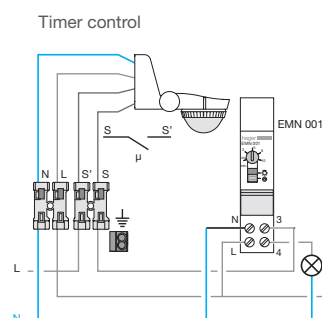
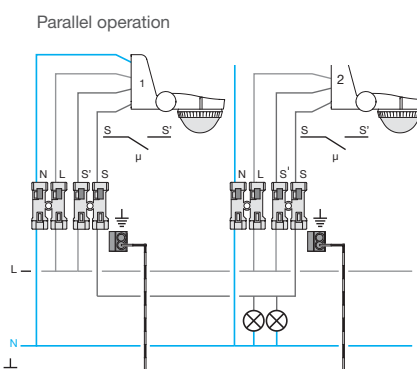
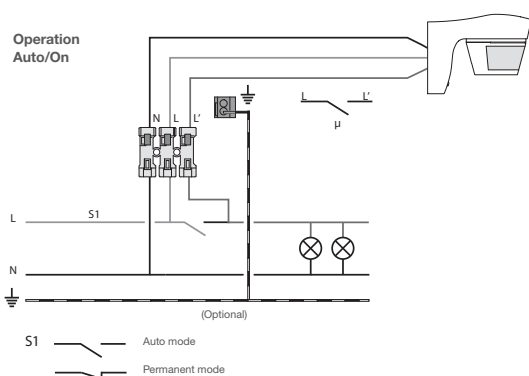
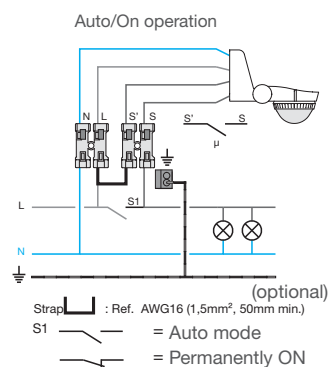
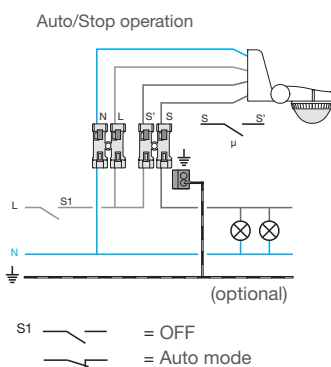
	EE820	EE830	EE830
<b>Supply voltage</b>	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz		230 V ~, +10%/-15% 50/60 Hz
<b>Standby power consumption</b>	1.2 W		
<b>Switching time</b> Operation	Adjustable 5 sec – 15 min - pulse		
<b>Response brightness</b>	Adjustable 5 – 1000 Lux		
<b>Recommended installation height</b>	2.5 m		
<b>Motion detection zone</b> (Fitting height 2.5 m) Detector tilt at 0° Detector tilt at 30°	12 x 8 metres 12 x 16 metres	16 x 8 metres 16 x 16 metres	
<b>Detection angle</b>	~ 140°	~ 200°	~ 360°
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 1500 W 10 to 20 W (200 W) 1500 VA 1500 VA 290 W/32 µF 580 W		
<b>Operating temperature</b>	-20°C to +55°C		
<b>Storage/transport temperature</b>	-20°C to +60°C		
<b>Ingress/Impact Protection and Protection Class</b>	IP55/IK04 II		
<b>Dimensions</b> Surface mounted version (W x H x D)	127 x 83 x 97 mm	153 x 91 x 64 mm	
<b>Terminal capacity</b> Screwless terminals (loop through)	Rigid 1.5 mm <sup>2</sup>		

## Connection

ON/OFF wiring  
EE820/EE830



ON/OFF wiring  
EE840



# Advanced wall mounted detector



## IP55 motion detector

- For outside spaces or areas subject to high humidity levels
- Can be adjusted with the EE806 remote control
- Can function as both master and slave
- Adjustable detection angle
- Can be angled up/down and left/right
- Screwless through terminal

## Applications

- Commercial and residential applications
- Outside use
- Storage warehouse
- Parking areas
- High traffic areas

## Product features

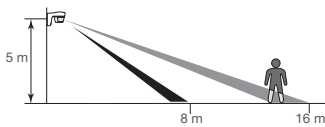
	EE850	EE860	EE870
Motion function	•	•	•
Presence function			
Brightness function	•	•	•
Master function			
Slave function	•	•	•
Manual override via push button			

## Options

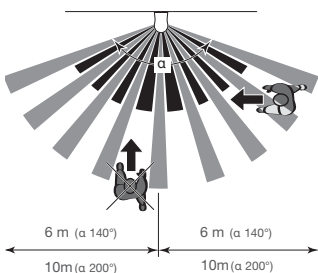
Description	Mounting	Technology	Cat. ref.
Standard IP55 wall mounted motion detector, 140° ON/OFF	Wall mounted	ON/OFF	EE850
Standard IP55 wall mounted motion detector, 200° ON/OFF		ON/OFF	EE860
Standard IP55 wall mounted motion detector, 220/ 230° ON/OFF		ON/OFF	EE870

## Detection zone

EE850/EE860

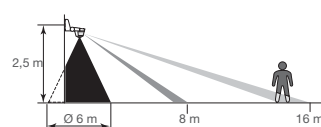


The optimal installation height is 2.5 m.  
The detection field must remain free.

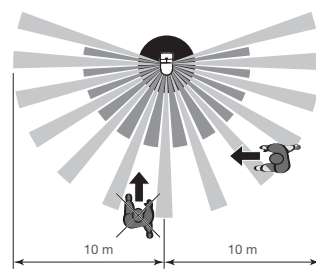


212x :  $\alpha = 140^\circ$     5222x :  $\alpha = 200^\circ$

EE870



The optimal installation height is 2.5 m.  
The detection field must remain free.



$\alpha = 220^\circ/360^\circ$

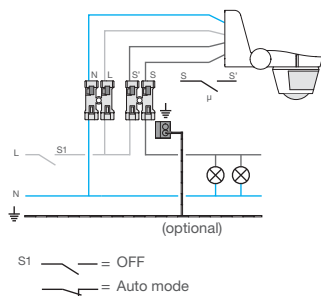
## Technical specifications

	EE850	EE860	EE870
<b>Supply voltage</b>	230 V ~, +10%/-15% 50/60 Hz	230 V ~, +10%/-15% 240 V ~, +6/-6% 50/60 Hz	230 V ~, +10%/-15% 50/60 Hz
<b>Standby power consumption</b>	1.2 W		
<b>Switching time</b> Operation	Adjustable 5 sec – 30 min - pulse		
<b>Response brightness</b>	Adjustable 5 – 1000 Lux		
<b>Recommended installation height</b>	2.5 m		
<b>Motion detection zone</b> (Fitting height 2.5 m) Detector tilt at 0° Detector tilt at 30°	12 x 8 m 12 x 16 m	20 x 8 m 20 x 16 m	
<b>Detection angle</b>	~ 140°	~ 220°	~ 360°
<b>Contact power</b> 230 V incandescent halogen lamp LED/compact fluorescent lamps Electrical transformer Electronic transformer Parallel compensated fluorescent tubes Fluorescent tubes with electronic ballast	10 A 2300 W 10 to 20 W (200 W) 1500 VA 1500 VA 400 W/45 µF 580 W		
<b>KNX information</b> Configuration mode Power supply KNX rated voltage Current consumption	-		
<b>Operating temperature</b>	-20°C to +55°C		
<b>Storage/transport temperature</b>	-20°C to +60°C		
<b>Ingress/Impact Protection and Protection Class</b>	IP55/IK06 II		
<b>Dimensions</b> Surface mounted version (W x H x D)	153 x 91 x 139 mm		
<b>Terminal capacity</b> Screwless terminals (loop through)	Rigid 1.5 mm <sup>2</sup>		

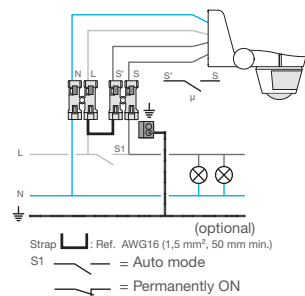
## Connection

ON/OFF wiring EE850/EE860/EE870

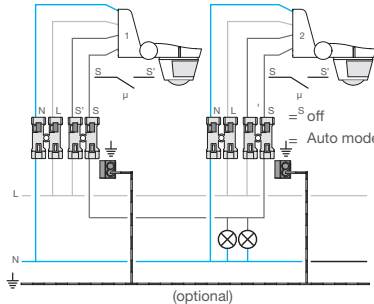
Auto/Stop operation



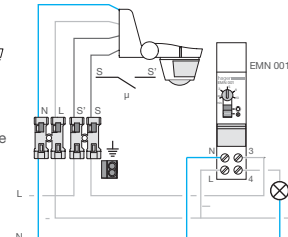
Auto/On operation



Parallel operation



Timer control





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