Lighting management

Motion and Presence Detectors

:hager

Hager's energy efficient detectors guarantee the most accurate detection in all situations.

Housed in a discrete design, they can be quickly and securely mounted and are suitable for residential and commercial applications.

Standard detectors
Ø 6 m detection

The entry-level solution
- Integrated motion
  and presence detection
- Detection perimeter: Ø 6 m
- Flush mounted or surface mounted

Part Number:
EE804A, EE805A

Mini detectors
Ø 10 m detection

The discreet solution
- Integrated motion
  and presence detection
- Detection perimeter: Ø 10 m
- Flush mounted

Part Number:
EER501

Large area detectors
Ø 20 m detection

**The right solution
for commercial buildings**
- Integrated motion
  and presence detection
- Detection perimeter: Ø 20 m
- Flush mounted or surface
  mounted

Part Number:
EER503 / EER513

Corridor detectors
30 x 5 m detection

**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

Part Number:
EER505 / EER515

High Ceiling detectors
22 x 12 m detection

**The right solution
for high ceilings**
- Motion detection
- Detection perimeter:
  22 x 12 m, specially
  designed for warehouses
  and high-ceilinged buildings
- Surface mounted

Part Number:
EER518

A range designed to suit all sites

Our detectors 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 high ceilings and a very discreet mini version.

Homes

- Entrance
- Hallway
- Basement and garage

Recommended detectors:
Standard and Mini

Multi-occupancy dwellings

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

Recommended detectors:
Standard, 20 metres, Corridor

Offices

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

Recommended detectors:
Standard, Mini, Large Area, Corridor

Warehouses, supermarkets

- High traffic areas
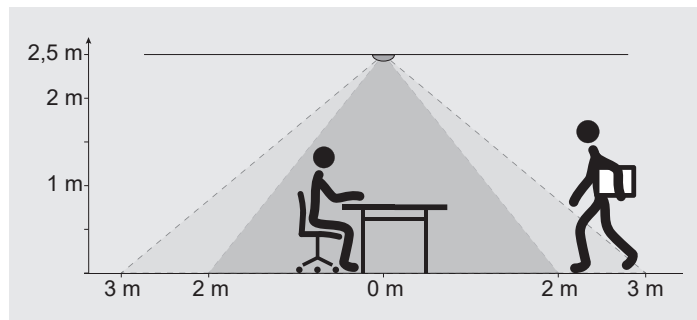- Storage areas

Recommended detectors:
High Ceiling

Choose a solution that is both simple and effective

01
Detection performance

The sharp perimeter and increased sensitivity ensure optimal detection.
The standard, 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
Easy Installation

Our patented claw fixings are designed for easy assembly, disassembly and adjustment.

Easy cable connections
with horizontal or vertical infeeds.

Ø 20 m detector: 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

Protective bracket

- To secure access to terminal blocks.

Supplied with tightening clamp
- Ensures cable infeeds are held securely.

Quick connect terminals
- For tool-free cable fixing.

Loop through terminals
- So you can connect several lighting circuits.

Ø 20 m detector: surface mounted

Connection base and sensing head can be separated

- Practical adjustment at ground level.
- Head and base clip together easily.
- Sensing head can be changed on its own.
- Base suitable for installation in standard surface mounting boxes.

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 cut-out diameter

Standard version:
75 mm

Mini version:
50/54 mm

20 metres version:
68 mm

The connection

Screwless
terminal

With loop through
function

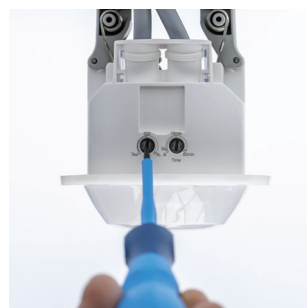Choice of master/slave/
override function

Ceiling mounting

Mounting claws
20 m and corridor

Standard and mini
claws mounting

Settings accessible
from the side

Surface mounting

Fixing

Standard surface
mounting box
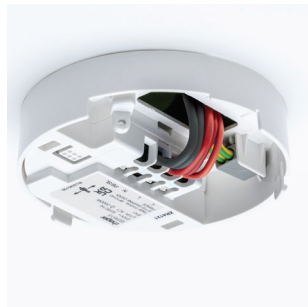
The connection

Screwless terminal

With loop through
function

Choice of master/slave/
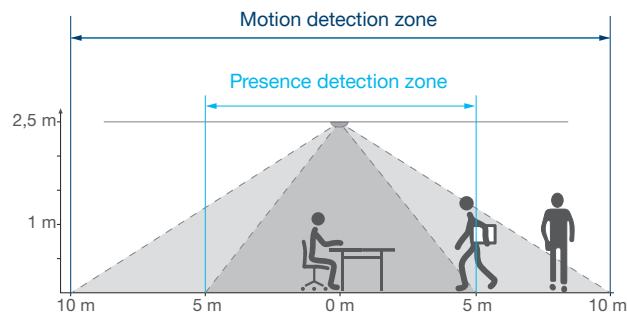override function

Ceiling mounting

Base and sensing
head can be
separated

Settings accessible from the
side of the sensing head

Motion detection/ presence detection

Overview of the range

Versions	Standard - Ø 6 m		Mini - Ø 10 m	Large Area - Ø 20 m	
	EE805A	EE804A	EER501	EER503	EER513
Mounting					
Flush mounted	✓		✓	✓	
Surface mounted		✓			✓
Wiring accessories (45x45)					
Wall mounted					
Application					
Round area	✓	✓	✓	✓	✓
Specially for offices (square)			✓	✓	✓
Specially for corridors					
High ceilings					
Discreet version			✓		
Outside application					
Detection					
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
Function					
Motion	✓	✓	✓	✓	✓
Presence	✓	✓	✓	✓	✓
Brightness	✓	✓	✓	✓	✓
Use					
Master function			✓	✓	✓
Slave function	✓	✓	✓	✓	✓
Connection					
Quick-connect terminal/screw	Quick	Quick	Quick	Quick	Quick
Loop through terminal			✓	✓	✓
Input				✓	✓
Remote control adjustment			**EE807** (installer) **EE808** (user)	**EE807** (installer) **EE808** (user)	
Technical data					
Ingress/Impact protection	IP21/IK04	IP21/IK04	IP41/IK04	IP41/IK04	IP41/IK04
Mounting hole diameter	Ø 75 mm		Ø 50/54 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	20 x 20 W	20 x 20 W	20 x 20 W	20 x 20 W	20 x 20 W

Corridor		High Ceilings	IP55 Wall Mounted
EER505	**EER515**	**EER518**	**EE860/EE870/EE871**
✓			
	✓	✓	
			✓
✓	✓		
		✓	
			✓
360°	360°	360°	**EE860** ▶140° **EE870** ▶220° **EE871** ▶230°
2.5 – 3.5 m	2.5 – 3.5 m	10 m	2.5 m
30 x 5 m	30 x 5 m	22 x 12 m	16 x 16 m - Ø 12 m
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓		✓	✓
Quick	Quick	Quick	Quick
✓	✓	✓	✓
✓	✓	✓	
EE807 (installer)		**EE807** (installer)	**EE806** (installer)
EE808 (user)		**EE808** (user)	
IP41/IK04	IP41/IK04	IP41/IK04	IP55/-
Ø 68 mm			
5 sec – 60 min	5 sec – 60 min	5 sec – 60 min	**EE860/EE870/EE871** ▶5 sec – 30 min
10 A	10 A	10 A	10 A
20 x 20 W	20 x 20 W	20 x 20 W	20 x 20 W

Ø 6 metres
Standard Detector

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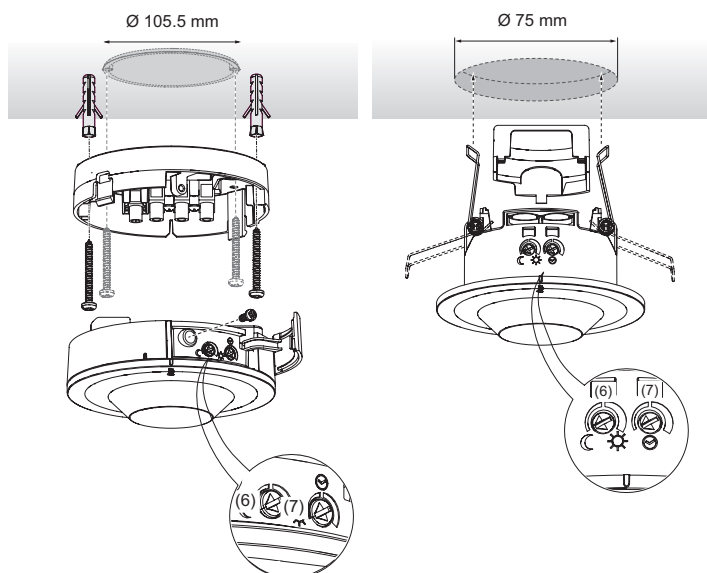- High traffic areas
- Entrance
- Small offices
- Hotel rooms

Product features

	EE804A	EE805A
Motion function	✓	✓
Presence function	✓	✓
Brightness function	✓	✓

Options

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

Hole diameter

Ø 105.5 mm

Ø 75 mm

Detection zone
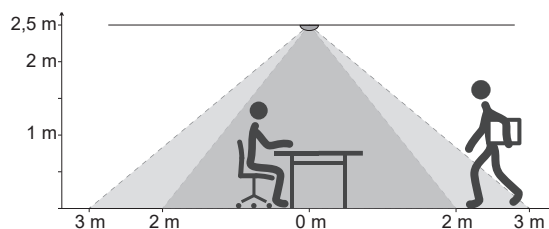
Technical specifications

	EE804A	EE805A
Supply voltage	230 V ∼, +10%/-15% 240 V ∼, +6/-6% 50/60 Hz	
Standby power consumption	< 0.3 W	
Switching time Operation Factory setting	Adjustable 5 sec – 30 min ~ 3 min	
Response brightness Factory setting	Adjustable 5 – 1000 Lux 200 Lux	
Recommended installation height	2.5 m – 3.5 m	
Maximum installation height	4 m	
Detection zone motion diameter (fitting height 2.5 m) across the detector Frontal movement towards the detector	 6 m 4 m	
Detection zone presence diameter (Fitting height 2.5 m)	4 m	
Detection angle	~ 360°	
Contact power 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	
Operating temperature	-5°C to +45°C	
Storage/transport temperature	-25°C to +70°C	
Ingress/Impact Protection and/ Protection Class	IP21/IK 04 II	
Dimensions Flush mounted version (Ø x H) Surface mounted version (Ø x H)	Ø 100 x 50 mm	Ø 90 x 61 mm

Connection
ON/OFF wiring
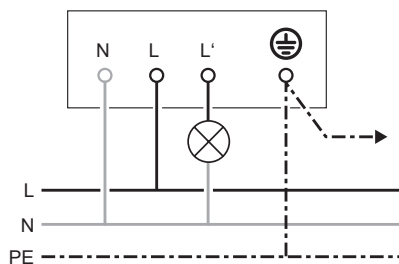
Ø 10 metres
Mini Detector

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

Applications
- Residential applications
- High traffic areas
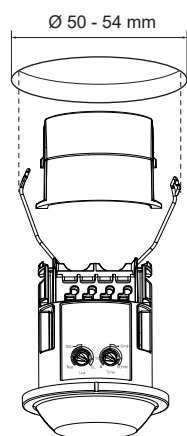- Entrance
- Medium sized offices
- Hotel rooms

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

Ø 50 - 54 mm

Detection zone
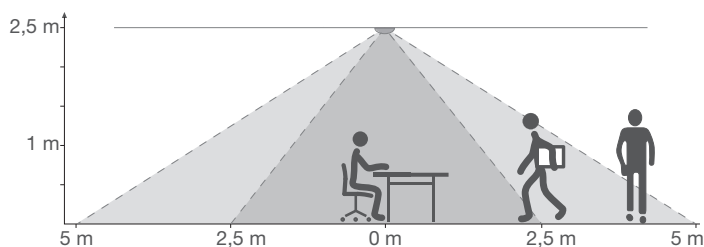
Technical specifications

|	EER501
Supply voltage	230 V ∿, +10%/-15% 240 V ∿, +6/-6% 50/60 Hz
Standby power consumption	< 0.5 W
Switching time Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ∿ 15 min
Response brightness Factory setting	Adjustable 5 – 2000 Lux 500 Lux
Recommended installation height	2.5 m – 3.5 m
Maximum installation height	4 m
Detection zone motion diameter (fitting height 2.5 m) Across the detector Frontal movement towards the detector	 10 m 5 m
Detection zone presence diameter (Fitting height 2.5 m)	5 m
Detection angle	∿ 360°
Cable length from the first to the last device	max. 50 m
Number of slave devices per master	max. 10
Contact power 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
Operating temperature	-5°C to +45°C
Storage/transport temperature	-20°C to +70°C
Ingress/Impact Protection and Protection Class	IP41/IK 04 II
Dimensions Flush mounted version (Ø x H)	Ø 62 x 86.2 mm
Terminal capacity Screwless terminals (loop through)	0.5 – 2.5 mm²

Connection

ON/OFF wiring + Push button
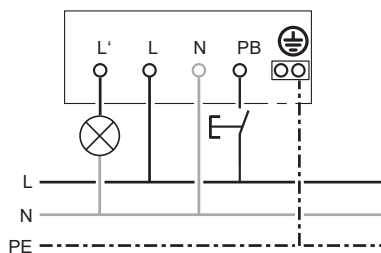
Master/slave wiring (max. slave ≤ 10)
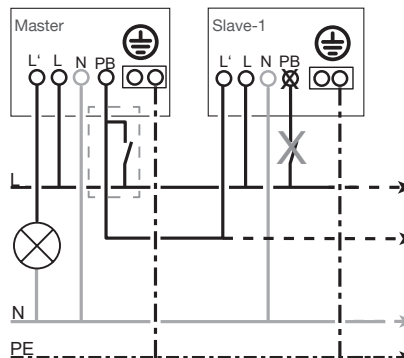
Ø 20 metres
Detector

Large area motion and presence detector
- For spaces requiring modern, high-performance equipment
- Set-up with the EE807 remote control
- Can function as both master and slave
- Zero-crossing contact compatible with LED loads

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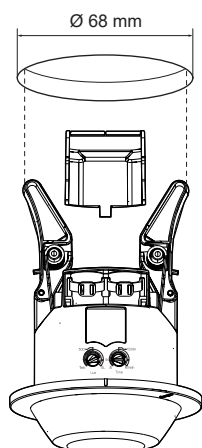- Reception areas
- High traffic areas

Product features

	EER503/EER513
Motion function	✓
Presence function	✓
Brightness function	✓
Master function	✓
Slave function	✓
Manual override via push button	✓

Options

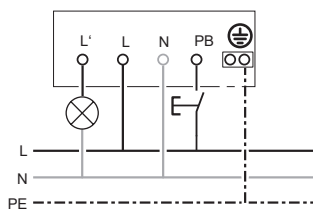| Description	Mounting	Technology	Cat. ref.
Large area motion/presence detector 20 m, ON/OFF flush mounted	Flush mounted	ON/OFF	**EER503**
Large area motion/presence detector 20 m, ON/OFF surface mounted	Surface mounted	ON/OFF	**EER513**

Hole diameter
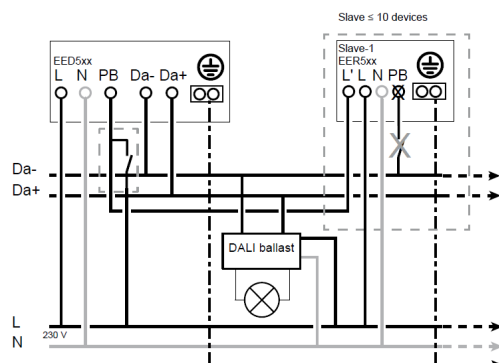
Ø 68 mm

Detection zone
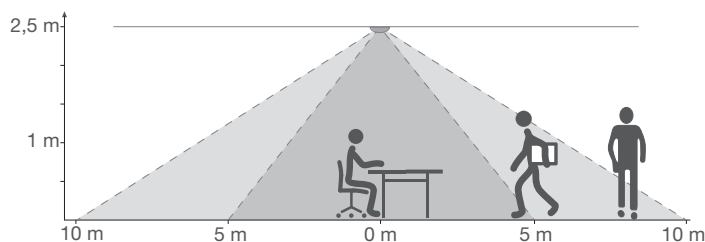
Technical specifications

	EER503/EER513
Supply voltage	230 V ∼, +10%/-15% 240 V ∼, +6/-6% 50/60 Hz
Standby power consumption	< 0.5 W
Switching time Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ∼ 15 min
Response brightness Factory setting	Adjustable 5 – 2000 Lux 500 Lux
Recommended installation height	2.5 m – 3.5 m
Maximum installation height	4 m
Detection zone motion diameter (fitting height 2.5 m) Across the detector Frontal movement towards the detector	 20 m 10 m
Detection zone presence diameter (Fitting height 2.5 m)	10 m
Detection angle	∼ 360°
Cable length from the first to the last device	max. 50 m
Number of slave devices per master	max. 10
Contact power 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
Operating temperature	-5°C to +45°C
Storage/transport temperature	-20°C to +70°C
Ingress/Impact Protection and Protection Class	IP41/IK 04 II
Dimensions Flush mounted version (Ø x H) Surface mounted version (Ø x H)	 Ø 85 x 75.9 mm Ø 105 x 59.7 mm
Terminal capacity Screwless terminals (loop through)	0.5 – 2.5 mm²

Connection

ON/OFF wiring
+ Push button

Master/slave wiring
(max. slave ≤ 10)

Corridor
Detector

Special corridor motion detector

- For spaces requiring modern, high-performance equipment
- Set-up 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

Applications

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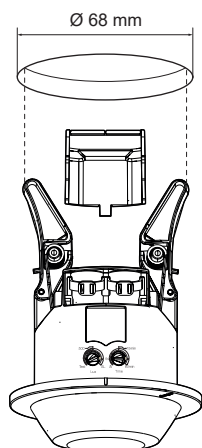- Multi-residential
- Stairs
- High traffic areas

Product features

	EER505/EER515
Motion function	✓
Presence function	
Brightness function	✓
Master function	✓
Slave function	✓
Manual override via push button	✓

Options

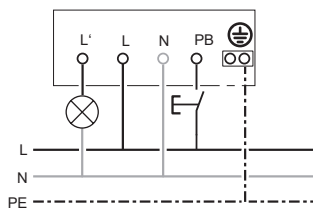| Description	Mounting	Technology	Cat. ref.
Corridor motion detector 30 x 5 metres ON/OFF flush mounted	Flush mounted	ON/OFF	**EER505**
Corridor motion detector 30 x 5 metres ON/OFF surface mounted	Surface mounted	ON/OFF	**EER515**

Hole diameter

Ø 68 mm

Detection zone

15m 7m 7m 15m
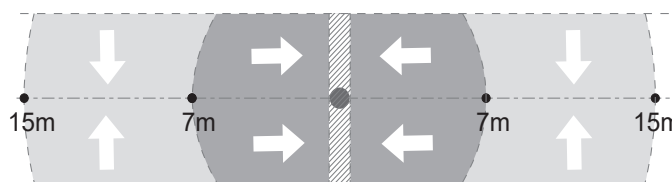
Technical specifications

	EER505/EER515
Supply voltage	230 V $\sim$, +10%/-15% 240 V $\sim$, +6/-6% 50/60 Hz
Standby power consumption	< 0.5 W
Switching time Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) $\sim$ 15 min
Response brightness Factory setting	Adjustable 5 – 2000 Lux 500 Lux
Recommended installation height	2.5 m – 3.5 m
Maximum installation height	4 m
Detection zone motion diameter (fitting height 2.5 m) Perpendicular to the detector Frontal movement towards the detector	 30 x 5 metres 14 x 5 metres
Detection angle	$\sim$ 360°
Cable length from the first to the last device	max. 50 m
Number of slave devices per master	max. 10
Contact power 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
Operating temperature	-5°C to +45°C
Storage/transport temperature	-20°C to+70°C
Ingress/Impact Protection and Protection Class	IP41/IK 04 II
Dimensions Flush mounted version (Ø x H) Surface mounted version (Ø x H)	 Ø 85 x 75.9 mm Ø 105 x 59.7 mm
Terminal capacity Screwless terminals (loop through)	0.5 – 2.5 mm²

Connection

ON/OFF wiring
+ Push button

Master/slave wiring
(max. slave ≤ 10)

High Ceilings
Detector

Special corridor motion detector
- For spaces requiring modern, high-performance equipment.
- Set-up 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

Applications
- Commercial applications
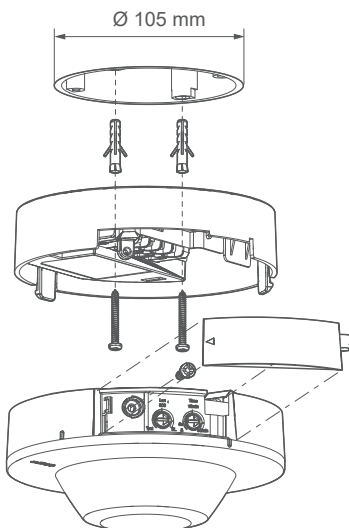- High ceilings
- Storage warehouse

Product features

	EER518
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	Surface mounted	ON/OFF	**EER518**

## Hole diameter

Ø 105 mm

Detection zone

6 m · 4 m · 11m · 7m · 7m · 11m · 4 m · 6 m
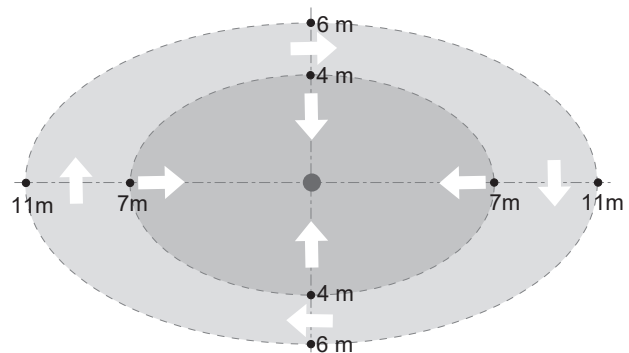
Technical specifications

|	EER518
Supply voltage	230 V ∼, +10%/-15% 240 V ∼, +6/-6% 50/60 Hz
Standby power consumption	< 0.5 W
Switching time Operation Factory setting	Adjustable 5 sec – 60 min - pulse (2s) ∼ 15 min
Response brightness Factory setting	Adjustable 5 – 2000 Lux 500 Lux
Recommended installation height	6 m – 9 m
Maximum installation height	10 m
Detection zone motion diameter (fitting height 2.5 m) Perpendicular to the detector Frontal movement towards the detector	 22 x 12 metres 14 x 8 metres
Detection angle	∼ 360°
Cable length from the first to the last device	max. 50 m
Number of slave devices per master	max. 10
Contact power 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
Operating temperature	-5°C to +45°C
Storage/transport temperature	-20°C to +70°C
Ingress/Impact Protection and **Protection Class**	IP41/IK 04 II
Dimensions Surface mounted version (Ø x H)	Ø 105 x 59.7 mm
Terminal capacity Screwless terminals (loop through)	0.5 – 2.5 mm²

Connection

ON/OFF wiring
+ Push button
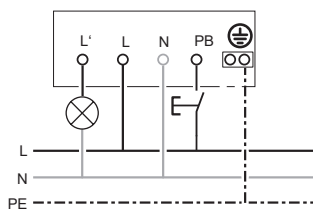
Master/slave wiring
(max. slave ≤ 10)
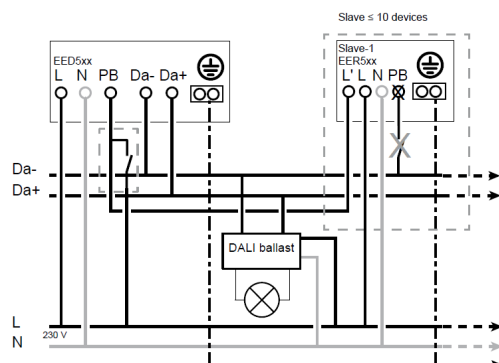
IP55
Wall Mounted Detector

IP55 motion detector
- For outside spaces or areas subject to high humidity levels
- Set-up 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

	EE860	EE870	EE871
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	**EE860**
Standard IP55 wall mounted motion detector, 200° ON/OFF		ON/OFF	**EE870**
Standard IP55 wall mounted motion detector, 220/ 230° ON/OFF		ON/OFF	**EE871**

Detection zone

EE860/EE870
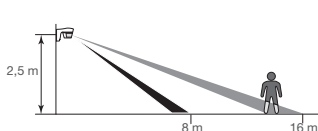
2,5 m

8 m   16 m

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

6 m (α 140°)   6 m (α 140°)

10m (α 200°)   10m (α 200°)

5212x : α = 140°   5222x : α = 200°

EE871

2,5 m

Ø 6 m   8 m   16 m

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

10 m   10 m
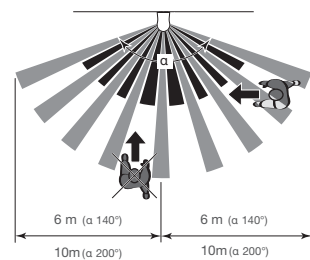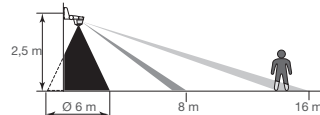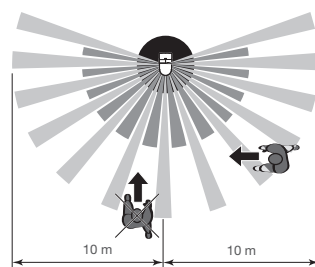
α = 220°/360°

Technical specifications

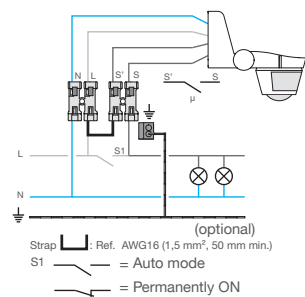|	EE860	EE870	EE871
Supply voltage	230 V $\sim$, +10%/-15% 50/60 Hz	230 V $\sim$, +10%/-15% 240 V $\sim$, +6/-6% 50/60 Hz	230 V $\sim$, +10%/-15% 50/60 Hz
Standby power consumption	1.2 W		
Switching time Operation	Adjustable 5 sec – 30 min - pulse		
Response brightness	Adjustable 5 – 1000 Lux		
Recommended installation height	2.5 m		
Motion detection zone (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	
Detection angle	$\sim$ 140°	$\sim$ 220°	$\sim$ 360°
Contact power 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		
Storage/transport temperature	-20°C to+60°C		
Ingress/Impact Protection and Protection Class	IP55/IK06 II		
Dimensions Surface mounted version (W x H x D)	153 x 91 x 139 mm		
Terminal capacity Screwless terminals (loop through)	Rigid 1.5 mm^2		

Connection
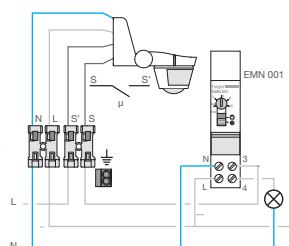
ON/OFF wiring EE860/EE870/EE871

Auto/Stop operation

Auto/On operation

S1 — = OFF

— = Auto mode

Strap : Ref. AWG16 (1,5 mm², 50 mm min.)

S1 — = Auto mode
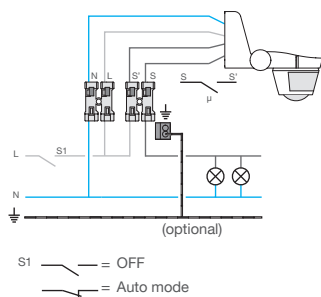
— = Permanently ON

Parallel operation

Timer control

EMN 001

= off

Auto mode

(optional)

:hager

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