Motion Detectors
Optimised control & energy consumption

The motion detector range is particularly adapted to building external lighting automation. It brings a lot of benefits, such as: comfort, safety and energy saving.
Matching with different detection and installation specifications, the detectors are available with a mounting set for wall and ceiling. They can be adjusted with a detection angle from 140° to 360°.

Quick installation
Quick to implement thanks to **quick**connect Q connection.

Adapted solution
Can match with different installation specifications: adjustable mounting compatible with wall and ceiling.

Detection area
Cover a wide detection area :
• detection angle from 140 to 220 / 360 ° (twin detection) ;
• detection up to 16 metres frontal and 12 metres in diameter.

Settings and controls
Easy setup and control of the detector using the optional remote control for:
• time delay
• distance sensitivity
• manual override

The radio operated motion detectors can be freely mounted in any indoor or outdoor location, and can remotely operate a 230V receiver with a 10A output contact.
Available in solar or battery operated types, with a transmission range of 100m in open space.

Easy configuration
The sensors utilise the 868.3MHz radio frequency, and can be easily configured using the tebis.**quick**link Q , method which is based on KNX.

Flexible installation
Due to mains-free operation, these sensors are particularly usefull in applications where the installation of cables is difficult or not desirable.

tebis

quicklink

Motion detector

Wall mounted

Wiring accessories	IP55 Standard			IP55 Enhanced	
100°	140°	200°	360°	140°	220°

ref. **WMMPIRH** white	ref. **EE820** white	ref. **EE830** white	ref. **EE840** white	ref. **EE850** white	ref. **EE860** white
	52-033*		52-362*		
ref. **WMMPIRV** white	ref. **EE821** anthracite	ref. **EE831** anthracite	ref. **EE841** anthracite	ref. **EE851** anthracite	ref. **EE861** anthracite
		52-362*			
				ref. **EE852** alu	ref. **EE862** alu
				ref. **EE853** brown	ref. **EE863** brown

Accessories

Ceiling mounting accessories

ref. **EE827** white	ref. **EE828** anthracite

Remote control

ref. **EE806** installer and user

Corner mounting accessories

ref. **EE825** white	ref. **EE826** anthracite

Corner mounting accessories

ref. **EE855** white	ref. **EE856** anthracite	ref. **EE857** alu

Motion detector

Presence detector

Ceiling

Ceiling

		IP55 Radio	Flush	Surface	Flush		Half flush	
220/360°		220°	360°	360°	360°		360°	
		tebis KNX			tebis KNX offer		tebis KNX offer	

ref. **EE870** white	ref. **TRE720** white	ref. **EE805** white 52-371*	ref. **EE804** white 52-370*	ref. **EE815** 1 channel	ref. **TCC520**(**) 1 channel	ref. **EE810** 1 channel 52-366*	ref. **TX511** 1 channel
ref. **EE871** anthracite	ref. **TRE521/531** anthracite					ref. **EE811** 2 channels 52-366*	ref. **TX510** 2 channels
ref. **EE872** alu	ref. **TRE520/530** white			ref. **EE816** DALI/DSI	ref.**TCC521**(**) DALI/DSI	ref. **EE812** 1/10 V 52-367*	
ref. **EE873** brown					ref. **TCC510S** w/o relay		

Remote control

ref. **EE807** installer	ref. **EE808** user

ref. **EE858** brown

(*) : Old 'Flash' ref.
(**) : ETS only.

Recommended for commercial applications

Energy & Lighting Control

3

Description
These devices are made for automatic control of lighting in both the residential and private/public industry sectors. They automatically switch on lighting when a person's movement is detected and light is needed. The lights turn off after a preset duration.

EE820/821, EE830/831, EE840/841, EE825/826, EE827/828
• That waterproof detector range (IP55) is mainly dedicated to outdoor applications.
• They are equipped with Fresnel lenses that permit to get a high detection performance.
• Detector 140° for access control and perimeter lighting
• 200° models to survey a house facade
• 360° to cover a house corner
• The fixing accessories allow ceiling and corner mounting.
• Settings
  The timer and the lux level are set locally, via potentiometer.

EE804/805
• Movement detector for the automatic control of lighting in indoor circulating zones. Surface mounted (EE804) or flush fitting (EE805).
• Setting
  The timer and the lux level are defined via potentiometers
• Mounting of EE805
  Connecting system conform to false ceiling installation standards (cable clamp, fixing spring and protection cover)
• Surface mounting of EE804
  Connecting on a ceiling box or on mouldings thanks to side pre-cut outs compatible with tehalit.ateha ATA63000 (6 x 30) or ATA12200 (12x20)
• Output
  Potential free relay contact 10A
• Movement detector for the automatic control of lighting in circulating zones. Surface mounted (EE804) or flush fitting (EE805).

These detectors switch ON when there is a need of light, it turns off the light after a define delay (set via potentiometer)
• Setting
  The timer and the lux level are defined via potentiometers
• Mounting of EE805
  Connecting system conform to false ceiling installation standards (cable clamp, fixing spring and protection cover).
• Surface mounting of EE804
  Connecting on a ceiling box or on mouldings thanks to side pre-cut outs compatible with tehalit.ateha ATA63000 (6 x 30) or ATA12200 (12x20)
• Output
  Potential free relay contact 10A

Complies to IEC 60 669-1 and 60 669-2-1.

	Description	Characteristics	Version	Pack qty	Cat. Ref.
EE820	**Standard wall-mounted IR detectors** surface 230 V~ 50/60 Hz Lux: 5 to 1000 lux Timer: pulse, 5s to 15 min Contact 10A AC1	phase outlet 230V 10A resistive	140° white	1	**EE820**
			140° anthracite	1	**EE821**
			200° white	1	**EE830**
			200° anthracite	1	**EE831**
		dry contact outlet 230V 10A resistive	360° white	1	**EE840**
			360° anthracite	1	**EE841**
EE850	**Enhanced wall-mounted IR detectors**	dry contact outlet 230V 16A resistive setting and override through IR remote control	140° white	1	**EE850**
			140° anthracite	1	**EE851**
			140° alu	1	**EE852**
			140° brown	1	**EE853**
			220° white	1	**EE860**
			220° anthracite	1	**EE861**
			220° alu	1	**EE862**
			220° brown	1	**EE863**
			220/360° white	1	**EE870**
			220/360° anthracite	1	**EE871**
			220/360° alu	1	**EE872**
			220/360° brown	1	**EE873**
EE806	**IR remote control for enhanced detectors**	Setting and lighting control functions		1	**EE806**

Motion Detectors

EE825

EE804

EE805

Description	Characteristics	Version	Pack qty	Cat. Ref
Corner mounting accessories	• for standard 140° and 200° detectors	white	1	**EE825**
		anthracite	1	**EE826**
	• for standard 360°, enhanced and radio TRExxx detectors	white	1	**EE855**
		anthracite	1	**EE856**
		alu	1	**EE857**
		brown	1	**EE858**
Corner mounting accessories	• for standard 140° and 200°	white	1	**EE827**
		anthracite	1	**EE828**
Ceiling mounted IR detectors		white 360°	1	**EE804**
		white 360°	1	**EE805**

Hyper Frequency Motion Detector

Hyper frequency motion detector technology is totally independent from the temperature. Detects through light walls (wood, glass…) Responds to different applications; hot temperature rooms, car parks, dressing rooms, etc.	• surface mounted - 1 channel • area detection 1-8 mtrs. • time delay 5 sec - 15 min • twilight adjustment 2 - 2000 lux • area detection 1-8 mtrs.			
Description	**Characteristics**	**Version**	**Pack qty**	**Cat. Ref**
Hyper frequency motion detector	• 360° detection angle	white	1	**EE883**

EE883

Technical characteristics

	EE820 / EE830 / EE840	EE821 / EE831 / EE841
Functional characteristics		
colours	white	anthracite
detection range	140° / 200° / 360°	
vertical head orientation	tilt 0 to 30°	
horizontal head orientation	pan ± 80°	
shutters	delivered with the products	
ceiling mounting	w/ accessory EE827 (except EE840)	w/ accessory EE828 (except EE841)
corner mounting (inner/outer corner)	w/ accessory EE825 (EE855 for EE840)	w/ accessory EE826 (EE856 for EE841)
Settings		
lux setting via potentiometer	5 to 1000 lux	
timer setting via potentiometer	pulse (1s ON, 9s OFF) or timer 5s to 15 min	
quick setting	auto/test position	
Electrical characteristics		
power supply	230V AC (+10% / -15%), 50Hz/60Hz	
output	10A AC1 , relay cutted phase	
Load type		
incandescent load	1500W	
VLV halogen lamps with conventional transformer	1500VA	
fluorescent tubes with parallel compensation C= 32µF	290W	
electronic ballast	580W	
fluocompact	10 x 20W	
Environment		
IP	55	
IK	04	
working temperature	-20°C to +55°C	
storage temperature	-20°C to +60°C	
Connection		
terminals	quickconnect with manual release	
terminals capacity	1,5 mm² rigid wires	

Auto/OFF

Auto/ON

S1 ——/—— = OFF
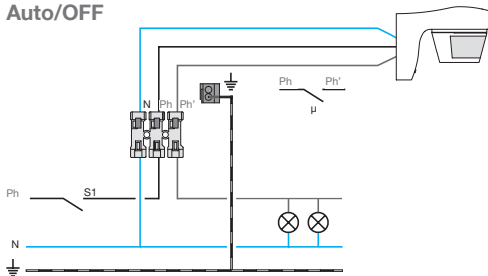
——/—— = auto
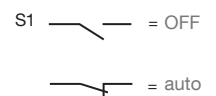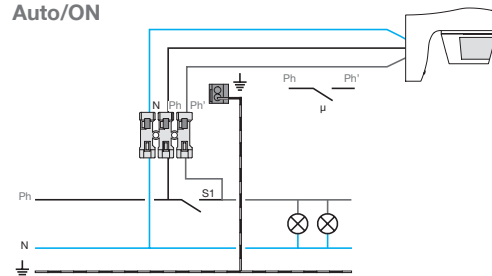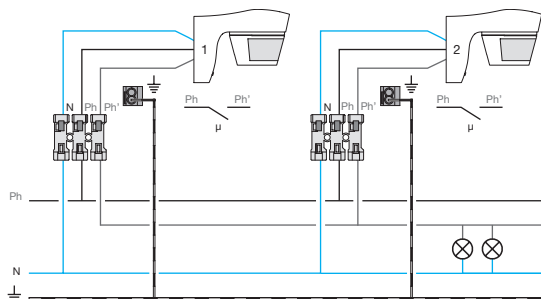
Detectors in parallel

Combination with a timelag

EMN001

Detection zone

2,5 m

8 m   16 m

6 m (α 140°)   8 m (α 200°)

6 m (α 140°)   8 m (α 200°)
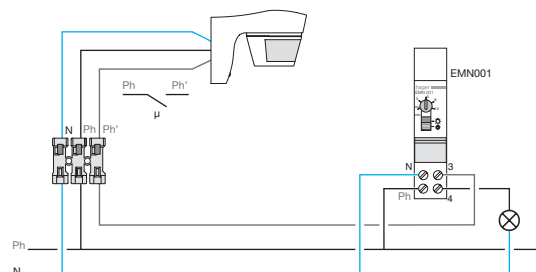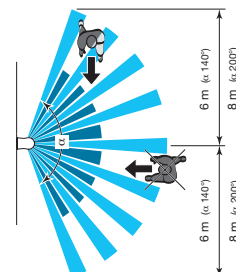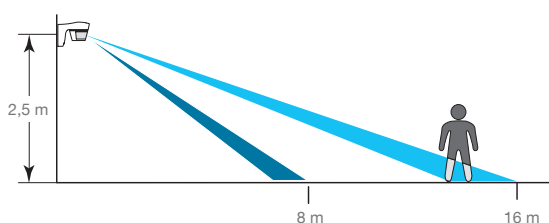
The optimal height of installation is 2,5 m.
The detection field must remain free.

EE82x: α= 140°
EE83x: α= 200°

Technical specifications

|	EE804	EE805
mounting	wall mounted	flush mounted
voltage supply	230 V AC	
frequency	50 Hz	
brightness level	5 to 1000 lux	
lighting output operating time	5 s. to 15 mn	
breaking capacity AC1	10 A	
• incandescent	1000 W	
• halogen 230 V	1000 W	
• halogen ELV via ferro.transfo.	500 VA	
• halogen ELV via electro.transfo.	500 VA	
• non compensated fluorescent tubes	1000 W	
• compensated fluorescent tubes	2 x 58 W or 3 x 36 W or 6 x 18 W	
• electronic ballast	8 x 58 W	
• fluocompact	10 x 20 W	
terminal capacity	1 to 2,5 mm^2	
IP	IP21 / IK03	
working temperature	0°C to + 45°C	
product dimension	EE804 : Ø 105 x p.54	EE805 : Ø 85 x p.80

Detection area
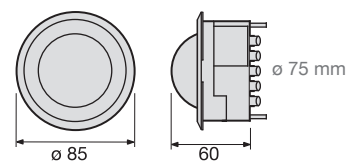### EE804 - EE805
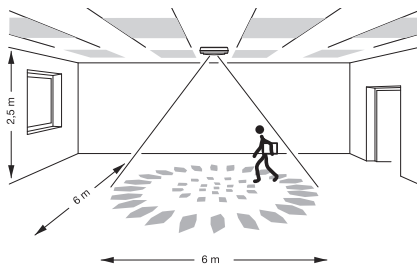
Mounting - Motion detectors 360°
EE804 - EE805

ceiling mouting
They are particularly intended for use in interior traffic areas such as corridors, entrance halls...

Dimensions
EE804

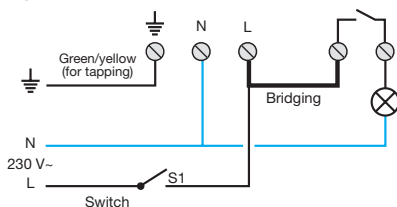ø 105,5   54
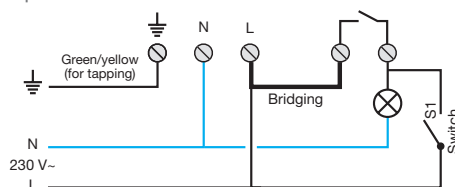
EE805

ø 85   60   ø 75 mm
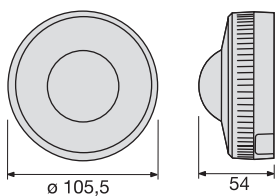
Electrical connections
EE804

Operation Auto/OFF

S1 Open = stop
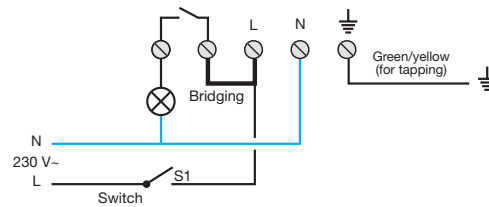S1 Closed = automatic mode

Operation Auto/ON

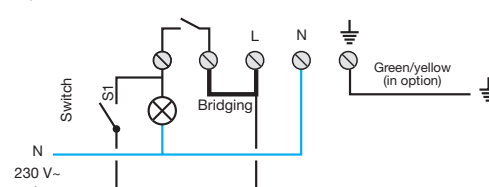S1 Open = automatic mode
S1 Closed = permanent switch on

EE805

Operation Auto/OFF

S1 Open = stop
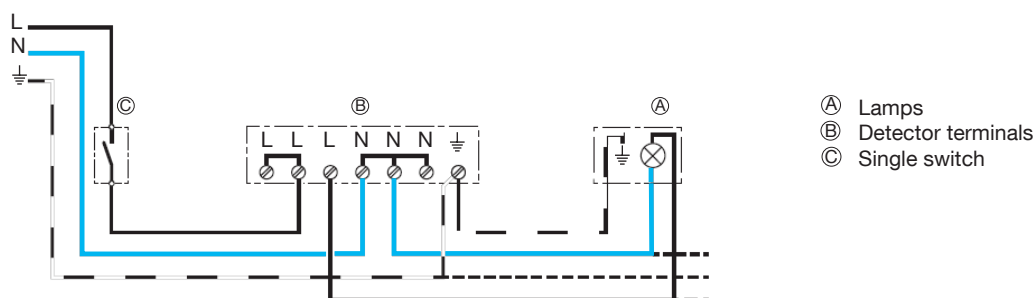S1 Closed = automatic mode

Operation Auto/ON

S1 open = automatic mode
S1 closed = permanent switch on

Energy &
Lighting Control

Technical characteristics

	EE883
colour	white
detection range	360°
voltage	230 V AC
frequency	50 Hz
twilight adjustment	5 seconds to 15 minutes
output	F contact
breaking capacity AC1	10A
incandescent lamps	2300 W
halogen lamps	2300 W
halogen with ferromagnetic transformer	1500 VA
halogen lamps with electronic transformer	1500 VA
fluorescent tubes with parallel compensation	400 W
electronic ballast	580 W
compact fluorescent lamp (CFL)	20 x 20 W
wiring capacity	1 to 2.5mm²
IP	IP54/IK04
operating temperature	-20° to 50°C
hyper frequency frequency	5.8 Ghz, emission < 1 mW
dimensions (Ø and depth) mm	surface mounted: Ø 125,5 x d. 51

Wiring EE883

Ⓐ Lamps
Ⓑ Detector terminals
Ⓒ Single switch

Detection area EE883