Catalogue

Klik Lighting
Connection

Klik is the lighting connection system for all your lighting designs, benefiting from its modular and adaptable design. From concept to commissioning, Klik adapts to meet your requirements.

:hager

Klik is the lighting connection system for all your lighting designs.

Established in the UK in the 1980s with its innovative 4 Pin plug & socket, installers have come to know and love Klik for its speed & ease of installation.

Klik has continued to develop to meet the changing needs of modern lighting connection & control systems through the Klik 4 & Klik 7 Ranges.

**But the ethos has stayed the same...**

Just Klik and forget.

From Start to Finish.

With its pre-wired plugs, Klik saves time on site, eliminates the chance of poor connections and allows for the system to adapt as needs change.

Luminaires can be plugged-in in seconds, with absolute safety and without circuit isolation. The secure, simultaneous mechanical & electrical connection gives complete confidence.

01
Design
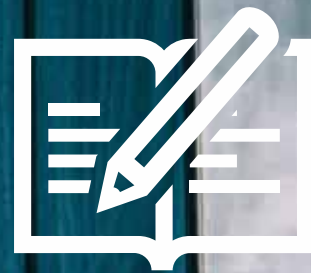
Klik is able to exploit the benefits of pre-fabricated wiring systems through its modular and adaptable design. From concept to commissioning, Klik adapts to meet your requirements.

By being a pluggable system, the prospect of future refurbishments is also nothing to worry about, lights or groups of lights can be relocated quickly and easily.

02
Install
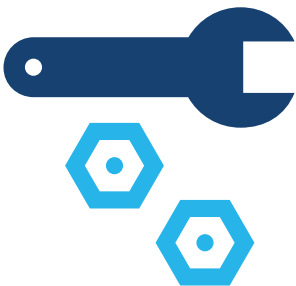
The Klik connector system brings plug-in convenience and versatility to lighting. Lights can be plugged-in, in seconds, with absolute safety, without circuit isolation.

The unique design prevents any unwanted disconnections due to load on cables or vibrations.

03
Use

Klik is a truly fit and forget lighting connection system. With a range of settings for daylight linked dimming, occupancy sensing photocell control for standard luminaires and DALI control, after Klik is installed, you'll forget it's even there.
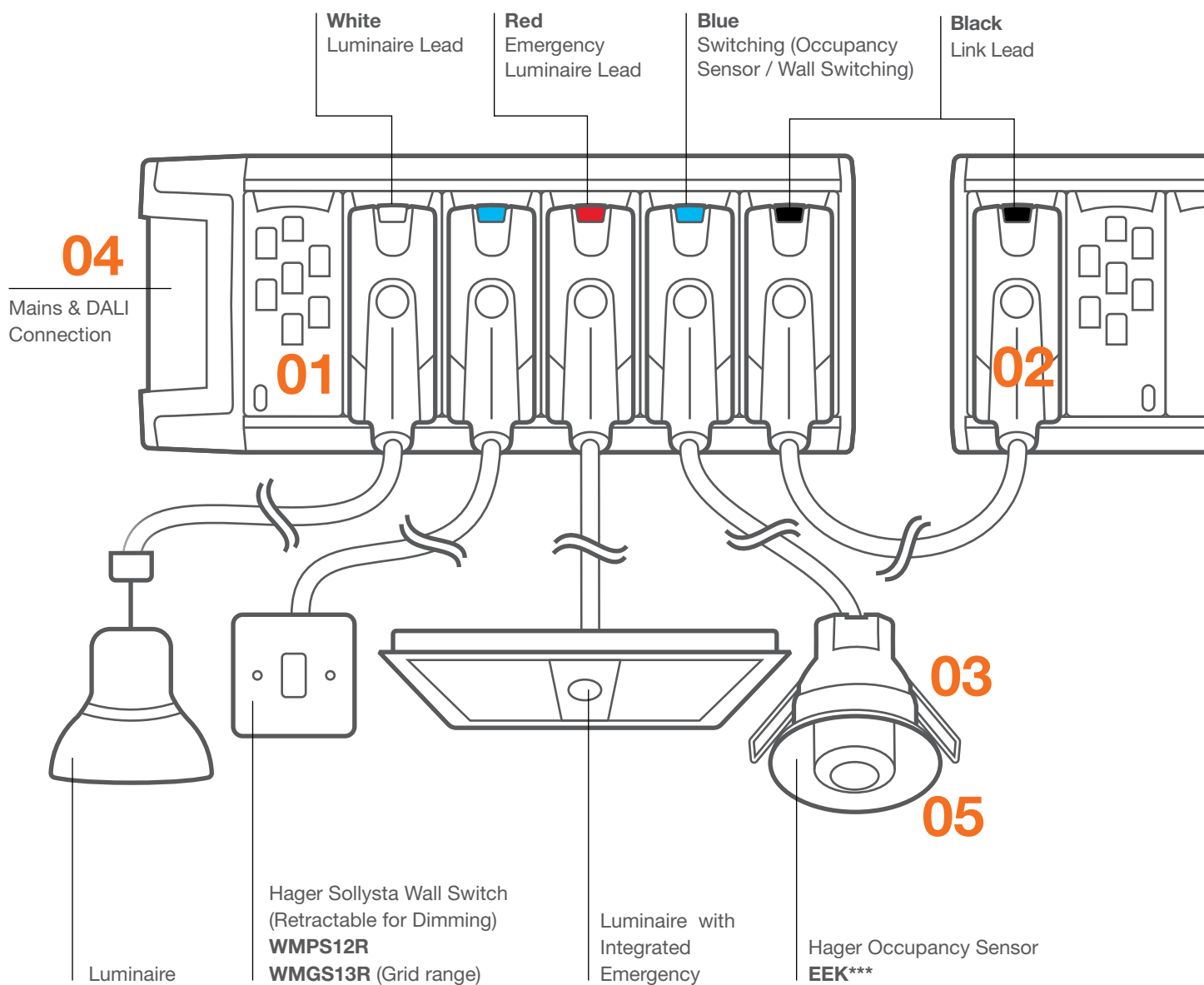
04
Adapt

Part of the problem with traditional lighting systems comes when a building or office space needs to change. The inherent benefit of Klik is that adapting to a new layout is as easy as plugging in a plug.

What Klik can do for you

Over 75% of existing lighting installations are thought to be out of date and unable to meet current design standards.

With Klik 7, we provide a system which is energy efficient, meets current design standards and takes into account the usage and function of a space, responding to daylight levels as well as occupancy and footfall.

White
Luminaire Lead

Red
Emergency
Luminaire Lead

Blue
Switching (Occupancy
Sensor / Wall Switching)

Black
Link Lead

04
Mains & DALI
Connection

01

02

03

05

Luminaire

Hager Sollysta Wall Switch
(Retractable for Dimming)
WMPS12R
WMGS13R (Grid range)

Luminaire with
Integrated
Emergency

Hager Occupancy Sensor
EEK*

Benefits - At a Glance

			Klik 3 / 4	Klik 7
Connection		Safe on-load connection / disconnection	✓	✓
		Superior electromechanical connection	✓	✓
Control		Occupancy sensing for on / off control	✓	✓
		Occupancy sensing for daylight linked on / off control	✓	✓
		Lux level 'trimming' during commissioning	✗	✓
		Automatic dimming (daylight linked)	✗	✓
		Manual dimming (via wall switch)	✗	✓
		DALI / DSI	✗	✓

By following the information CIBSE provide, building operators, designers and employers are better able to demonstrate compliance with UK building regulations and a number of lighting related BS EN standards, by incorporating the following Klik features.

			Klik 3 / 4	Klik 7
CIBSE		Use Occupancy Sensors	✓	✓
		Use Daylight Sensors	✓	✓
		Have a Maintenance Plan	✓	✓

01 Safe on-load connection

Luminaires can be connected in seconds in absolute safety, without circuit isolation, as all live contacts are inaccessible and the earth connection is made before any other, facilitating a simplified maintenance plan.

02 Electro Mechanical Connection

All Klik plugs feature a unique plug-in method which achieves a simultaneous mechanical and electrical connection.

03 Occupancy Sensing

Our range of occupancy sensors can provide presence and absence control of lighting, providing energy savings by switching lights on or off depending on the usage of the room.

04 DALI Control

DALI (digital addressable lighting interface) is a broadcast communication system that brings digital technology to lighting. Our 7 pin Klik products offer full compatibility with DALI control solutions.

05 Trimming of lux level

DALI based occupancy sensors enable trimming of lux level at commissioning stage to ensure optimum final lighting levels, when used with compatible, dimmable luminaire.

06 Daylight Link

Klik allows for automatic lighting control which can provide energy savings by not operating when sufficient light levels exist.

A Fast, Adaptable
& Secure Solution.

Providing an optimal lux level for the occupiers of a building is just one of the often overlooked functions of a quality lighting connection system.

Klik 7 provides an adaptable solution to any challenge faced in designing a modern, scalable lighting system, by ensuring the lux levels of dimmable luminaires can be adjusted during commissioning and, most importantly, after feedback from the occupiers.

The Value of Control

A basic level of control can be achieved easily with the use of occupancy sensors, by 'trimming' the lux level of dimmable luminaires to the required level at commissioning stage, helping to avoid costly problems later.

As lighting technologies and their applications continue to evolve, so too must the lighting connection systems used. The Klik range, with its combination of occupancy sensors, motion detectors, ceiling roses and marshalling boxes, can facilitate the inclusion of more complex control options as required.

Klik 7 provides all the benefits of Klik 4, creating a truly scalable level of control when matched with our sensors or other higher level supervisory systems, with the advantages associated with a built in control pair.

Application Examples

Application 1 - Office with no natural light

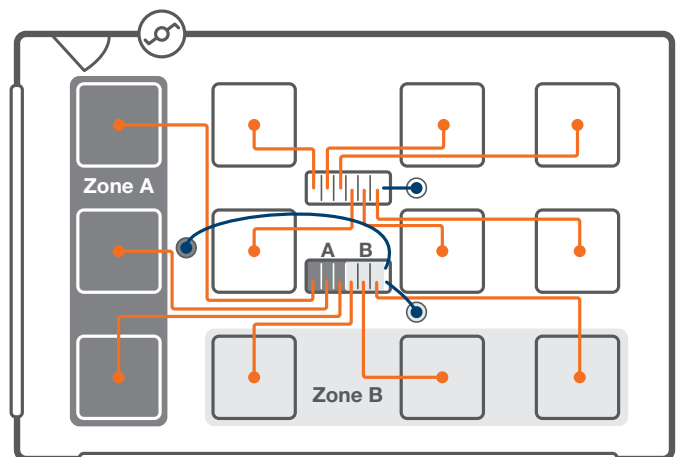| Sensor settings	Presence
Lux sensor used	No
Wall switching	None - auto only

- Two KLMB/KLDS marshalling boxes
- No natural light
- Standard or digital luminaires
- Auto on when entering room
- 20 Minute time out when vacant
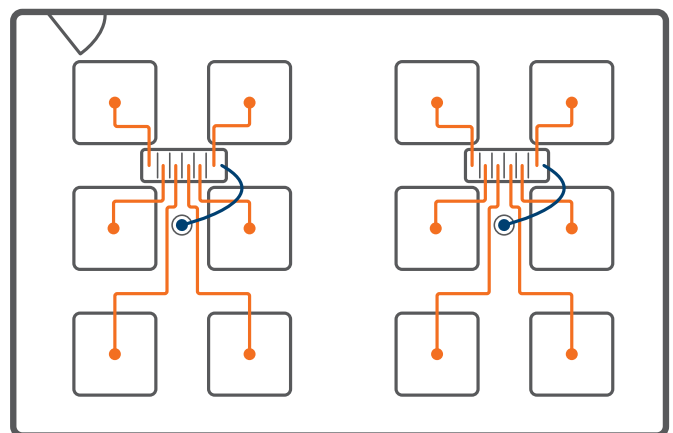
Application 2 - Office with windows on two sides

| Sensor settings	Presence
Lux sensor used	Yes
Wall switching	Optional

- One dual supply KLMB marshalling boxes & one standard KLMB box
- Auto on when entering room
- Natural light on two sides
- Digital luminaires adjacent to windows - standard or digital luminaires elsewhere
- 2 x digital sensors & 1 x standard sensor.
- 20 minute time out when vacant

Zone A

Zone B

Application 3 - Klik connection with 3rd party control

Sensor settings	Presence
Lux sensor used	Optional
Wall switching	Optional

- Two KLMB marshalling boxes
- Natural light on one side
- Digital luminaires
- Auto on when entering room
- 3rd Party head-end lighting control/supervisory system

DALI / DSI
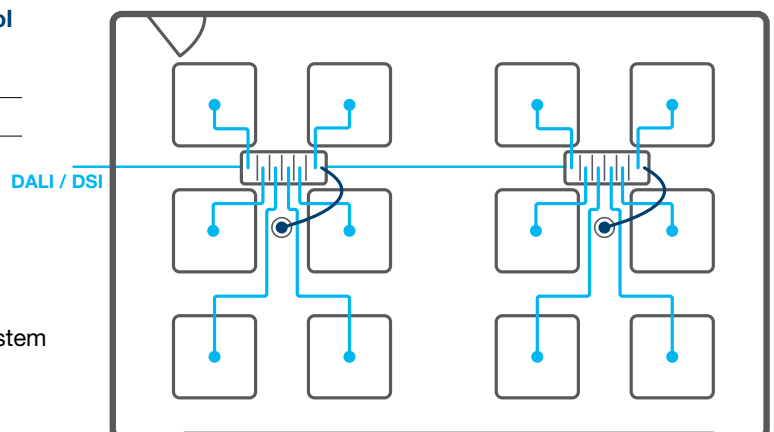
Klik 7

Delivering all the time saving, flexibility and secure lighting connection benefits of Klik 4, Klik 7 offers the additional benefit of an embedded control pair for the dimming of luminaires, providing a scalable approach to lighting control.

Developed to specifically address the latest lighting technologies, Klik 7 has evolved as an essential element of controllable lighting solutions.

Essential 'trimming' of lux levels to optimise the light in a room can easily be implemented through the use of DALI enabled Occupancy Sensors, which can then be adjusted at the commissioning phase and if required, after occupier feedback.

Klik 7 facilitates a truly scalable approach to lighting control, without compromising speed, security or flexibility of installation.

From intelligent occupancy sensors to manage lux levels and common control requirements, to sophisticated 3rd party 'head end' control and supervisory solutions, Klik 7 facilitates all your lighting application requirements.

Klik 4

Klik 4 is a modular plug-in marshalling solution for lighting systems that provides simultaneous mechanical and electrical connection in one click-in action. Designed for on-load connection & disconnection, Klik 4 allows individual light fittings to be removed or added without affecting other fittings on the circuit.

3 pin moulded plugs and leads distribute switch live, neutral and earth with 4 pin providing an additional connection, normally a permanent live for emergency lighting.

Pre-wired or self-wired plugs provide a highly adaptable solution for when systems need to be altered. Klik significantly cuts down on installation time by limiting the testing requirements at the commissioning stage.

Klik 7
Case Study

Project Name: Facebook Data Centre
Location: Clonee, Co. Meath, Ireland.
Products Used: Klik 7 with DALI sensors

Klik 7 and DALI sensors were chosen to provide lighting connection and control, to be installed in a Facebook Data Centre in Clonee, Co. Meath, Ireland.

The 250 acre Clonee Data Centre is home to servers that hold data from Instagram, WhatsApp, Messenger, and Oculus. Introduced in 2015, construction began on the €200m facility in April 2016 and rapidly grew to be the largest construction project in Ireland at the time.

After 7.2 million hours completed on the construction site by nearly 1,550 workers at peak, the first two buildings called Clonee 1 and 2, are now up and running. Clonne 3 is on the path to completion and Facebook is hoping to have it finished next year, while a planning application for Clonee 4 and 5 has been lodged. With the employment of 1,000 – 1,500 people for continuous periods of time, projects of this nature are remarkably good for the local and regional economy.

In an effort to stay energy efficient, Facebook designed an agreement with Brookfield renewable Partners, confirming that the site is 100% powered by wind energy and actively investing in constructing renewable generation capacity. At present, Facebook has stated it has added 2,500MW of renewable infrastructure that includes solar, wind and hydro globally in the last year alone and continues to increase as time goes on.

Mercury Engineering needed a lighting solution for wiring all the DALI fittings throughout the numerous data halls, and office spaces that occupy the building. Hager presented the Klik solution valued at €200k with the agreement to customise the length and part numbers to match the specifications of the project. After the decision was finalised, Mercury Engineering, distributor NEW and Hager worked closely together to come to an arrangement on time-scale, quantities and supply.

Hager's Klik range is a solution for any lighting design scenario. The Klik offer allows for automatic lighting control that provides energy savings by not operating when there are sufficient light levels present. With a range of settings for daylight linked dimming, occupancy sensing and DALI control, Klik was an ideal lighting solution for the Facebook Data Centre project.

Lighting
Connection

Lighting creates an impression. Klik, our lighting connection system provides the roots to a buildings lighting system, allowing it to adapt and grow with ease. Controls, including occupancy sensors, ensure that light is only available when needed and tailored to a users needs.
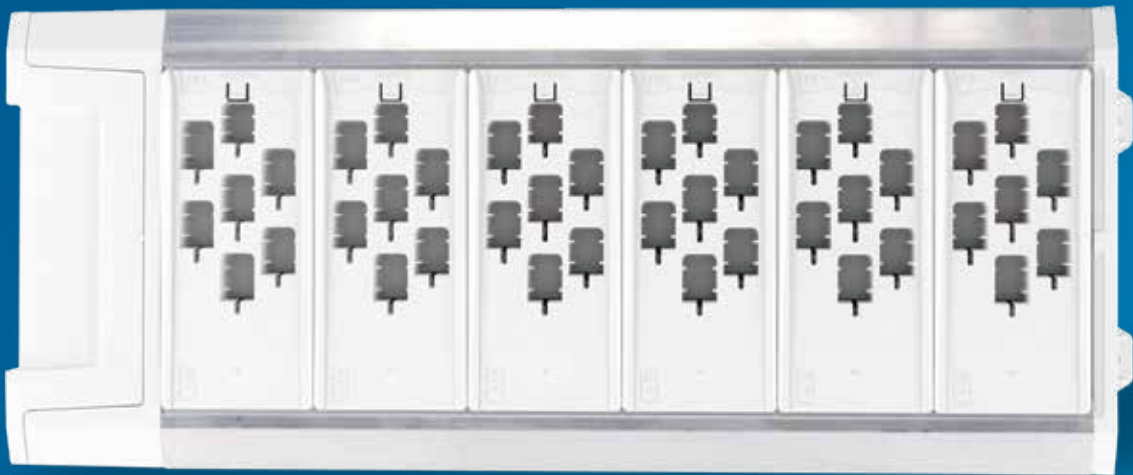
KLMB4W

Marshalling Boxes - Wire In, Plug Out

Characteristics:
- The KLMB marshalling box allows the connection and control of multiple luminaires. The marshalling box utilises a robust extruded aluminium body.
- 7 Pole.
- 4, 6, 8, 10 & 12 outlets.
- 16A Rated BS 5733:2010 .
- Short circuit tested: 1500A conditional rating.

Description	Cat ref.
Marshalling Box, Single Supply, Wire In, Plug Out	
4 Way	**KLMB4W**
6 Way	**KLMB6W**
8 Way	**KLMB8W**
10 Way	**KLMB10W**
12 Way	**KLMB12W**
Marshalling Box, Dual Channel, Wire In, Plug Out	
8 Way, 4/4	**KLMB244W**
10 Way, 5/5	**KLMB255W**
12 Way, 6/6	**KLMB266W**

KLMB5P

Marshalling Boxes - Plug In, Plug Out

Characteristics:
- The KLMB marshalling box allows the connection and control of multiple luminaires. The marshalling box utilises a robust extruded aluminium body.
- 7 Pole.
- 5, 7, 9 & 11 outlets.
- 16A Rated BS 5733:2010 .
- Short circuit tested: 1500A conditional rating.

Description	Cat ref.
Marshalling Box, Single Supply, Plug In, Plug out	
5 Way	**KLMB5P**
7 Way	**KLMB7P**
9 Way	**KLMB9P**
11 Way	**KLMB11P**

K7B1M075WPCR

Klik 7 Pre-wired Plugs with Sockets

Characteristics:
- Connections to the luminaire are made via a pre-wired plug and lead. All leads are low smoke zero halogen and are factory connected and tested.
- Standard, digital and emergency luminaires.
- Short circuit tested: 1500A conditional rating.
- Cable standard BS 7211.

Description	Cat ref.
Pre-wired Plugs and Sockets for Standard Luminaires	
6A Luminaire Lead 1.5m 0.75mm² 3 Core Plug to Wire + KLPCR7	**K7B1M075WPCR**
6A Luminaire Lead 3m 0.75mm² 3 Core Plug to Wire + KLPCR7	**K7B3M075WPCR**
Pre-wired Plugs and Sockets for Standard Luminaires with Emergency	
6A Luminaire Lead 1.5m 0.75mm² 4 Core Plug to Wire + KLPCR7	**K7J1M075WPCR**
6A Luminaire Lead 3m 0.75mm² 4 Core Plug to Wire + KLPCR7	**K7J3M075WPCR**
Pre-wired Plugs and Sockets for Dimmable Luminaires	
6A Luminaire Lead 1.5m 0.75mm² 5 Core Plug to Wire + KLPCR7	**K7P1M075WPCR**
6A Luminaire Lead 3m 0.75mm² 5 Core Plug to Wire + KLPCR7	**K7P3M075WPCR**
Pre-wired Plugs and Sockets for Dimmable Luminaires with Emergency	
6A Luminaire Lead 1.5m 0.75mm 6 Core Plug to Wire + KLPCR7	**K7T1M075WPCR**
6A Luminaire Lead 3m 0.75mm 6 Core Plug to Wire + KLPCR7	**K7T3M075WPCR**

Data is subject to errors and technical modifications. ★ **New.**

Klik 7 Pre-wired Plugs

Characteristics:
- Connections to the luminaire are made via a pre-wired plug and lead. All leads are low smoke zero halogen and are factory connected and tested.
- Standard, digital and emergency luminaires.
- Short circuit tested: 1500A conditional rating.
- Cable standard BS 7211.
- New for 2019 - references with 1m cable length will be provided as 1.5m.

We have recently improved our range of Klik 7 pre-wired leads. As part of this process, we have changed how our part references work. For example **KLB/3/0-75W** will now become **K7B3M075W**. For a full supercession chart, see page 30.

K7	**B**	**3M**	**075**	**W**
Range	Function	Length	Core Size	Wired or Plug End

A Link Lead, Power	**B** Standard Luminaire	**E** Emergency Exit Luminaire
G Link Lead, Power, Emergency	**J** Standard Luminaire, Emergency	**F** Switch Drop Lead
K Link Lead, Power, Emergency, Switched Line	**P** Dimmable Luminaire	**W** Control, +/- & Cpc
Z Link Lead, Power, Emergency, Switched Line, Control	**T** Dimmable Luminaire, Emergency	

K7B1M075W

K7J1M075W

Description	Cat ref.
Pre-wired Plugs for Standard Luminaires	
6A Luminaire Lead 1.5m 0.75mm² 3 Core Plug to Wire	**K7B1M075W**
6A Luminaire Lead 3m 0.75mm² 3 Core Plug to Wire	**K7B3M075W**
6A Luminaire Lead 5m 0.75mm² 3 Core Plug to Wire	**K7B5M075W**
6A Luminaire Lead 7m 0.75mm² 3 Core Plug to Wire	**K7B7M075W**
10A Luminaire Lead 1.5m 1mm² 3 Core Plug to Wire	**K7B1M1W**
10A Luminaire Lead 3m 1mm² 3 Core Plug to Wire	**K7B3M1W**
10A Luminaire Lead 5m 1mm² 3 Core Plug to Wire	**K7B5M1W**
10A Luminaire Lead 7m 1mm² 3 Core Plug to Wire	**K7B7M1W**
16A Luminaire Lead 3m 1.5mm² 3 Core Plug to Wire	**K7B3M15W**
16A Luminaire Lead 5m 1.5mm² 3 Core Plug to Wire	**K7B5M15W**
Pre-wired Plugs for Standard Luminaires with Emergency	
6A Luminaire Lead 1.5m 0.75mm² 4 Core Plug to Wire	**K7J1M075W**
6A Luminaire Lead 3m 0.75mm² 4 Core Plug to Wire	**K7J3M075W**
6A Luminaire Lead 5m 0.75mm² 4 Core Plug to Wire	**K7J5M075W**
6A Luminaire Lead 7m 0.75mm² 4 Core Plug to Wire	**K7J7M075W**
6A Luminaire Lead 9m 0.75mm² 4 Core Plug to Wire	**K7J9M075W**
10A Luminaire Lead 1.5m 1mm² 4 Core Plug to Wire	**K7J1M1W**
10A Luminaire Lead 3m 1mm² 4 Core Plug to Wire	**K7J3M1W**
10A Luminaire Lead 5m 1mm² 4 Core Plug to Wire	**K7J5M1W**
10A Luminaire Lead 7m 1mm² 4 Core Plug to Wire	**K7J7M1W**
10A Luminaire Lead 9m 1mm² 4 Core Plug to Wire	**K7J9M1W**
16A Luminaire Lead 3m 1.5mm² 4 Core Plug to Wire	**K7J3M15W**
16A Luminaire Lead 5m 1.5mm² 4 Core Plug to Wire	**K7J5M15W**
16A Luminaire Lead 3m 1.5mm² 4 Core Plug to Plug	**K7J3M15P**
16A Luminaire Lead 5m 1.5mm² 4 Core Plug to Plug	**K7J5M15P**
16A Luminaire Lead 7m 1.5mm² 4 Core Plug to Plug	**K7J7M15P**
Pre-wired Plugs for Emergency Exit Luminaires	
16A Luminaire Lead 3m 1.5mm² 3 Core Plug to Wire	**K7E3M15W**
16A Luminaire Lead 5m 1.5mm² 3 Core Plug to Wire	**K7E5M15W**
16A Luminaire Lead 7m 1.5mm² 3 Core Plug to Wire	**K7E7M15W**
16A Luminaire Lead 11m 1.5mm² 3 Core Plug to Wire	**K7E11M15W**

K7T3M075W

Klik 7 Pre-wired Plugs for Dimmable Luminaires

Description	Cat ref.
Pre-wired Plugs for Dimmable Luminaires	
6A Luminaire Lead 1.5m 0.75mm² 5 Core Plug to Wire	**K7P1M075W**
6A Luminaire Lead 3m 0.75mm² 5 Core Plug to Wire	**K7P3M075W**
6A Luminaire Lead 5m 0.75mm² 5 Core Plug to Wire	**K7P5M075W**
6A Luminaire Lead 7m 0.75mm² 5 Core Plug to Wire	**K7P7M075W**
10A Luminaire lead 1.5m 1mm² 5 core Plug to Wire	**K7P1M1W**
10A Luminaire Lead 3m 1mm² 5 Core Plug to Wire	**K7P3M1W**
10A Luminaire Lead 5m 1mm² 5 Core Plug to Wire	**K7P5M1W**
10A Luminaire Lead 7m 1mm² 5 Core Plug to Wire	**K7P7M1W**
16A Luminaire lead 1.5m 1.5mm² 5 core Plug to Wire	**K7P1M15W**
16A Luminaire Lead 3m 1.5mm² 5 Core Plug to Wire	**K7P3M15W**
16A Luminaire Lead 5m 1.5mm² 5 Core Plug to Wire	**K7P5M15W**
16A Luminaire Lead 7m 1.5mm² 5 Core Plug to Wire	**K7P7M15W**
Pre-wired Plugs for Dimmable Luminaires with Emergency	
6A Luminaire Lead 1.5m 0.75mm² 6 Core Plug to Wire	**K7T1M075W**
6A Luminaire Lead 3m 0.75mm² 6 Core Plug to Wire	**K7T3M075W**
6A Luminaire Lead 5m 0.75mm² 6 Core Plug to Wire	**K7T5M075W**
6A Luminaire Lead 7m 0.75mm² 6 Core Plug to Wire	**K7T7M075W**
10A Luminaire Lead 1.5m 1mm² 6 Core Plug to Wire	**K7T1M1W**
10A Luminaire Lead 3m 1mm² 6 Core Plug to Wire	**K7T3M1W**
10A Luminaire Lead 5m 1mm² 6 Core Plug to Wire	**K7T5M1W**
10A Luminaire Lead 7m 1mm² 6 Core Plug to Wire	**K7T7M1W**
16A Luminaire Lead 3m 1.5mm² 6 Core Plug to Wire	**K7T3M15W**
16A Luminaire Lead 5m 1.5mm² 6 Core Plug to Wire	**K7T5M15W**
16A Luminaire Lead 3m 1.5mm² 6 Core Plug to Plug	**K7T3M15P**
16A Luminaire Lead 5m 1.5mm² 6 Core Plug to Plug	**K7T5M15P**
16A Luminaire Lead 7m 1.5mm² 6 Core Plug to Plug	**K7T7M15P**

Data is subject to errors and technical modifications. ★ **New.**

Klik 7 Pre-wired Marshalling Box Link Leads

Characteristics:
- The link leads are used to connect KLMB to KLMB. All leads are low smoke zero halogen and are factory connected and tested. Note: to ensure correct link lead selection see the connection key on page .
- 1.5mm² CSA.
- 3m, 5m & 10m lengths.
- Standard, Digital and Emergency Luminaires.
- 16A Rated.
- BS 5733:2010, BS EN 61535.
- Short circuit tested: 1500A conditional rating.
- Cable standard BS 6500 & BS 7211.

K7A3M15P

Description	Cat ref.
Pre-wired Link Leads - L, N, CPC	
16A Luminaire Lead 10m 1.5mm² 3 Core Plug to Plug	**K7A10M15P**
16A Luminaire Lead 5m 1.5mm² 3 Core Plug to Plug	**K7A5M15P**
Pre-wired Link Leads - L, N, CPC, Emergency	
16A Link Lead 10m 1.5mm² 4 Core Plug to Plug	**K7G10M15P**
16A Link Lead 5m 1.5mm² 4 Core Plug to Plug	**K7G5M15P**
Pre-wired Link Leads - L, N, SL, CPC, Emergency	
16A Link Lead 5m 1.5mm² 5 Core Plug to Plug	**K7K5M15P**
Pre-wired Link Leads - CPC, DA+, DA-	
6A DALI Link Lead 3m 0.75mm² 3 Core Plug to Wire	**K7W3M075W**
6A DALI Link Lead 5m 0.75mm² 3 Core Plug to Wire	**K7W5M075W**
Pre-wired Link Leads - L, N, SL, CPC, DA+, DA-, Emergency	
16A Link Lead 3m 1.5mm² 7 Core Plug to Plug	**K7Z3M15P**
16A Link Lead 5m 1.5mm² 7 Core Plug to Plug	**K7Z5M15P**

Ceiling Roses

Characteristics:
- 7 Pole conduit box / surface connector to allow the easy connection of digital lighting within traditional fixed wire installations. The connector is fitted directly to trunking or conduit allowing the luminaire to be connected / disconnected via the pluggable luminaire lead.
- 7 Pole.
- 16A Rated.
- Standards: BS 5733:2010.
- Short circuit tested: 1500A conditional rating.

KLPCR7

Description	Cat ref.
16A 7 Pin Ceiling Rose	**KLPCR/7**
16A 7 Pin Wireable Plug & Ceiling Rose	**K7PLUGPCR**

K7PLUGPCR

Wireable / Rewireable Plug

Characteristics:
- 7 Terminal plug, enabling you to make leads on site to the configuration required.
- Complies with BS EN 61535-2009+A1-2013
- Enables you to add the plug after cable routing, for example when cables pass through walls.

Description	Cat ref.
16A Wireable Klik 7 Plug	**K7PLUG**

K7PLUG

EEK515P

EEK001

Occupancy Sensors with Remote Programming & Control Options

Characteristics:
- **EEK520B** - Detector for control of digital (DSI/DALI) luminaires
- Direct control of a light load.
- Lux level and ON delay adjustable via potentiometers or **EEK001** remote control.
- DALI/DSI bus output accommodates up to 24 ballasts.
- 230V wall switch override.
- Presence or absence detection available.
- **EEK523P** - As **EEK520B** but pre-wired with 3m Lead
- **EEK525P** - As **EEK520B** but pre-wired with 5m Lead
- **EEK513P** - detector for control of standard luminaires (On/Off)
- Presence or Absence detection available.
- Programmable from **EEK001**
- 7m Range
- **EEK515P** - As EEK513P but pre-wired with 5m Lead
- **EEK001** - IR programming tool
- Installer remote control to commission settings.
- **EEK002** - IR remote control
- Customer remote control for override operation.
- Complies with BS EN 60669-1 & BS EN 60669-2-1.

Description	Cat ref.
Wireable Digital PIR Occupancy Sensor - Dimmable & Daylight Linked	**EEK520B**
Pluggable Digital PIR Occupancy Sensor 3m lead - Dimmable & Daylight Linked	**EEK523P**
Pluggable Digital PIR Occupancy Sensor 5m lead - Dimmable & Daylight Linked	**EEK525P**
Flush Mounted Standard Occupancy Sensor (without cable)	**EEK510B**
Pluggable PIR Occupancy Sensor 3m lead - On / Off & Daylight Linked	**EEK513P**
Pluggable PIR Occupancy Sensor 5m lead - On / Off & Daylight Linked	**EEK515P**
Pre-Wired PIR Occupancy Sensor 3m lead - On / Off & Daylight Linked	**EEK513W**
Programming Tool	**EEK001**
Remote Control for the End User	**EEK002**
Backbox Accessory for Surface BESA Detectors	**EEK005**

Data is subject to errors and technical modifications. ★ **New.**

Semi-Recessed Occupancy Sensor

Characteristics:
- The presence area is especially suitable in offices, where there may be notional corridors.
- **EE810** - 1 channel detector
- Provides direct control of a light load or can be used as a slave with **EE811** for enlargement of detection area.
- Lux level and ON delay (duration or pulse) defined via potentiometers.
- Test mode in order to set lux level and the detection pattern.
- **EE811** - 2 channel detector
- Lux level and ON delay adjustable via potentiometers.
- Input for slave (**EE810**) and/or remote push button.
- 230V wall switch override.
- Complies with BS EN 60669-1 & BS EN 60669-2-1.

EE810

Description	Cat ref.
Presence Detector 1 Channel	**EE810**
Presence Detector 2 Channel	**EE811**
Surface Mounting Box for **EE810** and **EE811**	**EE813**

Hyper Frequency Detector

Characteristics:
- The detection range diameter is adjustable from one to eight metres. The hyper frequency sensor allows for detection of movement through partitions (drywall, wood, glass) independent of temperature detection.

Features
- 230V AC.
- IP54 rated.
- Detection area 360º.
- Complies with BS EN 60669-1, BS EN 60669-2-1.

EE883

Description	Cat ref.
360º Hyper Frequency Sensor	**EE883**
Protection Basket for Hyper Frequency Sensor	**EEK006**

Corridor Motion Detector

Characteristics:
- Infra-red corridor motion detector for surface mounting.

Features
- 230V AC.
- IP54 rated.
- Detection zone of 4m x 20m.
- Overrun timer from 5 seconds to 15 minutes.
- Complies with BS EN 60669-1 & BS EN 60669-2-1.

EE880

Description	Cat ref.
PIR Corridor Motion Detector	**EE880**

Klik
Lighting Control Module

Klik LCM's (Lighting Control Module) enable the control of an area with up to 4 different control groups. Each group of outputs can control standard switched and/ or digital dimmable (DALI/ DSI) luminaires. The control module can be connected to up to 4 SELV occupancy sensors and up to 4 wall switch overrides (double retractive, centre off). Any switch or occupancy sensor can be assigned to any output.

The programming is carried out with iPad and communicates with the LCM via Bluetooth. We've also recently introduced an LCM which allows for local physical disconnection of bluetooth technology, for use in security sensitive applications.

SELV Switching / Dimming
Each channel is capable of being switched via one of 4 or more switch inputs.

Sensor with integral lux sensor (SELV)
This allows daylight dimming and switching utilising any natural light available

Scene setting
4 lighting scenes are possible (plus global Up/ Down-On/Off) controlled via centre-off 2 pole retractive grid switch modules and 2 separate scene profiles are available.

Partition switch
This allows total and separate control of a room with a partition and switch fitted.

Corridor hold
Linking LCMs with RJ45 lead to hold designated corridor area

Bluetooth local disconnection
LCM references with BT suffix: Bluetooth function can be locally disconnected for enhanced security applications.

Integral emergency test timers
Emergency test carried out via an emergency test switch (can be set for up to 5 hours). Whilst on test the other luminaires will dim to a pre-set value.

Presence & absence sensing
Each output channel can be set to Presence or Absence individually.

Light level offset between channels
This function allows phasing channels to set as a percentage of the lead channel (e.g. 10%, 60%, 80%, 100%).

Three level timeout
At timeout, lighting can turn Off or Dim down in three stages.

Dimming - DSI, DALI (Broadcast)
Broadcast on the required channel to all connected luminaire

:hager

Lighting Control Module with KlikLink

Characteristics:
- The KLCM allows connection and control of multiple luminaires with four separate channels.
- Switching, dimming (DSI & DALI), corridor hold, partition switching, daylight switching & dimming, scene settings, integral emergency test times, reset profiles, light level offset (channel to channel).
- Setting up of **KLCM** is acomplished via KlikLink app, available on iOS for iPad.
- For technical data, see page 36

KLCM413W

Description	Cat ref.
13 Way 4 Channel LCM Wire in, Plug out	**KLCM413W**
13 Way 4 Channel LCM Wire in, Plug out, 230V EM Test Override	**KLCM413WIET**
13 Way 4 Channel LCM Wire in, Plug out, with bluetooth disconnect switch	**KLCM413WBT ★**
13 Way 4 Channel LCM Wire in, Plug out, 230V EM Test Override, with bluetooth disconnect switch	**KLCM413WETBT ★**
KlikLink iPad App (Free of charge)	**Search KlikLink in iPad App Store**

KlikLink App (Shown on iPad, not included)

Lighting Control Module Occupancy Sensors

Characteristics:
- Klik SELV LCM occupancy sensors come complete with a 10m RJ11 lead and have integrated daylight sensing.
- Sensing options are selected via the KlikLink app (e.g. presence/absence).
- **KLCM-3OS** is designed for use as a corridor sensor.
- **KLCM-5OS** is designed for use as a whole room sensor.

KLCM-OS

Description	Range	Cat ref.
Klik LCM Occupancy Sensor with 1 Sensor Head	5m	**KLCM-OS**
Klik LCM Occupancy Sensor with 1 Sensor Head	10m	**KLCM-1OS**
Klik LCM Corridor Sensor with 3 Sensor Heads	15 x 5m	**KLCM-3OS**
Klik LCM Wide Area Sensor with 5 Sensor Heads	15 x 15m	**KLCM-5OS**

KLCM-5OS

Lighting Control Module Switch Drop Leads (Grey)

Characteristics:
- RJ45 to switch (wire-in) lead available in a variety of lengths.
- SELV.
- Cables supplied standard with RJ45 plug on both ends.
Note: for retractive wall switch, please see below

KLO15RJ45G

Description	Cat ref. Red	Cat ref. Grey
RJ45 SELV Switch Drop Lead		
5m	**KLO5RJ45R**	**KLO5RJ45G**
10m	**KLO10RJ45R**	**KLO10RJ45G**
15m	**KLO15RJ45R**	**KLO15RJ45G**
20m	**KLO20RJ45R**	**KLO20RJ45G**
30m	**KLO30RJ45R**	**KLO30RJ45G**
40m	**KLO40RJ45R**	**KLO40RJ45G**
50m	**KLO50RJ45R**	**KLO50RJ45G**
RJ45 Splitter	**KLORJ45CON**	

KLO15RJ45R

User Controls

Characteristics:
- Our Sollysta grid retractive wall switches make the perfect user control companion to the LCM.
- Other grid finishes are available, please see our Wiring Accessories Catalogue for the full range.

Description	Cat ref.
Sollsyta Grid Retractive Wall Switch	
1 Gang Grid Plate	**WMGP1**
1 Gang Grid Frame	**WMGF1**
2 Way & Centre Off Retractive Wall Switch	**WMGS13R**

WMGS13R

KLDS4

KLDS6BLACK

Marshalling Boxes

Characteristics:
- Klik marshalling boxes are used in conjunction with Klik 3 and 4 pin plugs to connect luminaires within an area. The Klik marshalling box can be separated into two independently switched circuits. These circuits can be controlled via wall switch or occupancy sensor.
- Complies with BS 5733:2010.
- Main terminal rating: 16 Amps.
- Socket outlet rating: 6 Amps.
- Separate terminals for flexible conductors, rating: 10 Amps.
- Short circuit tested 1500A conditional rating.
- Socket outlets accept either Klik lighting (3 pin) plugs, Klik auxiliary (4 pin) plugs.

Description	Cat ref.
4 Way Klik Lighting Distribution Unit	**KLDS4**
6 Way Klik Lighting Distribution Unit	**KLDS6**
8 Way Klik Lighting Distribution Unit	**KLDS8**
10 Way Klik Lighting Distribution Unit	**KLDS10**
12 Way Klik Lighting Distribution Unit	**KLDS12**
6 Way Klik Lighting Distribution Unit - Black	**KLDS6BLACK ★**

PCR2000/1.0

3 Pin Pre-wired 6A Plug-in Ceiling Rose

Characteristics:
- 6A pre-wired plug-in ceiling roses are used to connect luminaires to a fixed wiring installation.
- Complies with BS 6972 and BS 5733:2010.
- PVC flexible cord complies with BS EN 50525-2-11.
- Low smoke zero halogen flexible cord, complies with BS EN 50525-3-11.
- All leads have prepared ends.

Description	Box Quantity	PVC Cat ref.	LSZH Cat ref.
6A Plug-in Ceiling Rose with 0.75mm² Flexible Cord			
1 Metre	10	**PCR2000/1 .0**	**PCR2000/LSF/1.0**
2 Metre	10	**PCR2000/2.0**	**PCR2000/LSF/2.0**
3 Metre	5	**PCR2000/3.0**	**PCR2000/LSF/3.0**
4 Metre	5	**PCR2000/4.0**	**PCR2000/LSF/4.0**
6A Plug-in Ceiling Rose with 1mm² Flexible Cord			
2 Metre	10	**PCR2000/1.0PVC/2**	**PCR2000/1.0LSF/2**
3 Metre	5	**PCR2000/1.0PVC/3**	**PCR2000/1.0LSF/3**
4 Metre	5	**PCR2000/1.0PVC/4**	**PCR2000/1.0LSF/4**
5 Metre	5	**PCR2000/1.0PVC/5**	**PCR2000/1.0LSF/5**

CR64AX/1.0

4 Pin (Including Auxiliary) Pre-wired 6A Plug-in Ceiling Rose

Characteristics:
- Auxiliary 6A pre-wired plug-in ceiling roses are used to connect luminaires to a fixed wiring installation.
- Complies with BS 6972 and BS 5733:2010.
- PVC flexible cord complies with BS EN 50525-2-11.
- Low smoke zero halogen flexible cord, complies with BS EN 50525-3-11.
- All leads have prepared ends.

Description	Box Quantity	PVC Cat ref.	LSZH Cat ref.
6A Pre-wired Ceiling Rose with 0.75mm² Flexible Cord			
1 Metre	10	**CR64AX/1.0**	**CR64AX/LSF/1.0**
2 Metre	10	**CR64AX/2.0**	**CR64AX/LSF/2.0**
3 Metre	5	**CR64AX/3.0**	**CR64AX/LSF/3.0**
4 Metre	5	**CR64AX/4.0**	**CR64AX/LSF/4.0**
6A Pre-wired Ceiling Rose with 1mm² Flexible Cord			
2 Metre	10	**CR64AX/1.0PVC/2**	**CR64AX/1.0LSF/2**
3 Metre	5	**CR64AX/1.0PVC/3**	**CR64AX/1.0LSF/3**
4 Metre	5	**CR64AX/1.0PVC/4**	**CR64AX/1.0LSF/4**
5 Metre	5	**CR64AX/1.0PVC/5**	**CR64AX/1.0LSF/5**

Data is subject to errors and technical modifications. ★ **New.**

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3 Pin Pre-wired 6A Plugs

Characteristics:
- 6A pre-wired plugs are used to connect luminaires to a Klik ceiling rose or marshalling box. All leads have prepared ends.
- Complies with BS 6972 and BS 5733:2010.
- PVC flexible cord complies with BS EN 50525-2-11.
- Low smoke zero halogen flexible cord, complies with BS EN 50525-3-11.

Description	Quantity	PVC Cat ref.	LSZH Cat ref.
6A Pre-wired Plugs with 0.75mm² Flexible Cord			
1 Metre	10	**P22/1.0**	**P22/LSF/1.0**
2 Metre	10	**P22/2.0**	**P22/LSF/2.0**
3 Metre	5	**P22/3.0**	**P22/LSF/3.0**
4 Metre	5	**P22/4.0**	**P22/LSF/4.0**
6A Pre-wired Plugs with 1mm² Flexible Cord			
2 Metre	10	**P22/1.0PVC/2**	**P22/1.0LSF/2**
3 Metre	5	**P22/1.0PVC/3**	**P22/1.0LSF/3**
4 Metre	5	**P22/1.0PVC/4**	**P22/1.0LSF/4**
5 Metre	5	**P22/1.0PVC/5**	**P22/1.0LSF/5**

P22/1.0

4 Pin (Including Auxiliary) Pre-wired 6A Plugs - White

Characteristics:
- Klik auxiliary 6A pre-wired plugs are used to connect luminaires to a Klik ceiling rose or marshalling box.
- Complies with BS 6972 and BS 5733:2010.
- PVC flexible cord complies with BS EN 50525-2-11.
- Low smoke zero halogen flexible cord, complies with BS EN 50525-3-11.
- All leads have prepared ends.

Description	Quantity	PVC Cat ref.	LSZH Cat ref.
6A Pre-wired Plugs with 0.75mm² Flexible Cord			
1 Metre	10	**P64AX/1.0**	**P64AX/LSF/1.0**
2 Metre	10	**P64AX/2.0**	**P64AX/LSF/2.0**
3 Metre	5	**P64AX/3.0**	**P64AX/LSF/3.0**
4 Metre	5	**P64AX/4.0**	**P64AX/LSF/4.0**
6A Pre-wired Plugs with 1mm² Flexible Cord			
2 Metre	10	**P64AX/1.0PVC/2**	**P64AX/1.0LSF/2**
3 Metre	5	**P64AX/1.0PVC/3**	**P64AX/1.0LSF/3**
4 Metre	5	**P64AX/1.0PVC/4**	**P64AX/1.0LSF/4**
5 Metre	5	**P64AX/1.0PVC/5**	**P64AX/1.0LSF/5**

P64AX/1.0

4 Pin (Including Auxiliary) Pre-wired 6A Plugs - Red

Characteristics:
- Klik auxiliary 6A pre-wired plugs are used to connect luminaires to a Klik ceiling rose or marshalling box.
- Complies with BS 6972 and BS 5733:2010.
- PVC flexible cord complies with BS EN 50525-2-11.
- Low smoke zero halogen flexible cord, complies with BS EN 50525-3-11.
- All leads have prepared ends.

Description	Quantity	PVC Cat ref.	LSZH Cat ref.
6A Pre-wired Plugs with 0.75mm² Flexible Cord			
1 Metre	10	**P64AXR/1.0**	**P64AXR/LSF/1.0**
2 Metre	10	**P64AXR/2.0**	**P64AXR/LSF/2.0**
3 Metre	5	**P64AXR/3.0**	**P64AXR/LSF/3.0**
4 Metre	5	**P64AXR/4.0**	**P64AXR/LSF/4.0**
6A Pre-wired Plugs with 1mm² Flexible Cord			
2 Metre 1.00mm² Flexible Cord	10	**P64AXR/1.0PVC/2**	**P64AXR/1.0LSF/2**
3 Metre 1.00mm² Flexible Cord	5	**P64AXR/1.0PVC/3**	**P64AXR/1.0LSF/3**
4 Metre 1.00mm² Flexible Cord	5	**P64AXR/1.0PVC/4**	**P64AXR/1.0LSF/4**
5 Metre 1.00mm² Flexible Cord	5	**P64AXR/1.0PVC/5**	**P64AXR/1.0LSF/5**

P64AXR/1.0

3 Pin Plug-in Ceiling Rose & Cover

Characteristics:
- The 6A plug-in ceiling rose is used to offer a pluggable connection for luminaires. The luminaire can be connected and disconnected under load.
- Complies with BS 5733:2010.
- Sockets have 4 terminations: line, neutral, CPC and loop-in.
- Plugs have 3 terminations: line, neutral and CPC.
- Fixing: 50.8mm Standard Diagonal (BESA).

PCR2000

Description	Quantity	Cat ref.
3 Pin Plug-in Ceiling Rose White	10	**PCR2000**
3 Pin Plug-in Ceiling Rose Black	10	**PCR2000BLACK** ★

4 Pin (including Auxiliary) Plug-in Ceiling Rose & Cover

Characteristics:
- Klik 6A pre-wired plug-in ceiling roses are used to connect luminaires to a fixed wiring installation. Auxiliary contact available, a typical use is for emergency lighting.
- Complies with BS 6972 and BS 5733:2010.
- Sockets have 5 terminations: line, neutral, CPC, auxiliary and loop-in.
- Plugs have 4 terminations: line, neutral, CPC and auxiliary.

CR64AX/R

Description	Quantity	Cat ref.
4 Pin Plug-in Ceiling Rose White	10	**CR64AX**
4 Pin Plug-in Ceiling Rose Red	10	**CR64AX/R**

Spare Ceiling Rose Cover

A1/R

Description	Quantity	Cat ref.
Ceiling Rose Cover White	10	**A1**
Ceiling Rose Cover Red	10	**A1/R**
Ceiling Rose Cover Black	10	**A1BLACK** ★

3 Pin Plug

Characteristics:
- Klik 3 pin plugs are used to connect into a Klik socket giving a pluggable connection to luminaires.
- Complies with BS 6972 and BS 5733:2010.
- Suitable for use with any Klik 3 or 4 pin socket.
- **P22** plug is supplied in a plug-in ceiling rose, cat ref. **PCR2000**.
- Plugs have 3 terminations: line, neutral and CPC.
Warning: Plugs must not be fitted on the supply side of any installation - they must be connected to the load / fitting / appliance side of the installation.

P22

Description	Quantity	Cat ref.
3 Pin Plug White	10	**P22**
3 Pin Plug Black	10	**P22BLACK** ★

4 Pin (Including Auxiliary) Plug

Characteristics:
- Klik plugs with auxiliary pin are used to connect into the Klik sockets giving a pluggable connection to luminaires.
- Complies with BS 6972 and BS 5733:2010.
- Suitable for use with any Klik 4 pin sockets.
- **P64AX** plug is supplied in a plug-in ceiling rose, Cat. ref. **CR64AX**.
- Plugs have 4 terminations: line, neutral, CPC and auxiliary.
Warning: Plugs must not be fitted on the supply side of any installation - they must be connected to the load / fitting / appliance side of the installation.

P64AX/R

Description	Quantity	Cat ref.
4 Pin Plug White	10	**P64AX**
4 Pin Plug Red	10	**P64AX/R**

3 Pin Plug Socket Outlets

Characteristics:
- 6A socket outlets are used in conjunction with 6A plugs to provide a pluggable connection to luminaires.
- Complies with BS 6972 and BS 5733:2010.
- Suitable for use with standard Klik 3 pin plug.
- **S27** socket is supplied in plug-in ceiling rose, Cat. Ref. **PCR2000**.
- **S27** socket will accept **A1** cover.
- **S26/TC** socket is an **S26** architrave socket pre-assembled with a trunking clamp.

Description	Quantity	Cat ref.
3 Pin Round Socket White	10	**S27**

S27

4 Pin (Including Auxiliary) Plug Socket Outlets

Characteristics:
- Klik auxiliary 6A socket outlets are used in conjunction with Klik auxiliary 6A plugs to provide a pluggable connection to luminaires.
- Complies with BS 6972 and BS 5733:2010.
- Suitable for use with standard Klik 4 pin plug.
- **S64AX** socket is supplied in plug-in ceiling rose, Cat. Ref. **PCR2000**.
- **S64AX** socket will accept **A1** cover.
- **S65AX** socket is a square variant.
- All sockets have 5 terminations: line, neutral, CPC, auxiliary and loop-in.
- Can be used with Klik 3 or 4 pin plug.

Description	Quantity	Cat ref.
4 Pin Round Socket White	10	**S64AX**
4 Pin Round Socket Black	10	**S64BLACK ★**

S64AX

S64BLACK

Moulded Mounting Boxes

Description	Quantity	Cat ref.
Round Surface Box White	10	**MB2**

MB2

EEK513W

EE815B

Occupancy Sensors with Remote Programming & Control Options

Characteristics:
- Comes complete with integral photocell and the facility for wall switch override.
- Can be programmed for absence or presence.
- Range 7m diameter for large movements, 5m diameter for small movements.
- Factory presets, lux = 400, time = 20 min, presence detection.

Description	Cat ref.
Flush Mounted Standard Occupancy Sensor, Pre-Wired 3m	**EEK513W**
Flush Mounted Standard Occupancy Sensor (without cable)	**EEK510B**
Klik Occupancy Sensor 6 Amp Long Range	**KLOS6LR**
Flush Mounted Standard Occupancy Sensor (without cable) - Black	**EE815B** ★

EEK001   EEK002

Remote Controls for EEK Sensors Only

Characteristics:
- **EEK001** programming tool is easy to use with 2 memory settings to enable repeatability.
- **EEK002** remote control comes with a wall mounting bracket for storage and allows room occupant to have control of lighting output.

Description	Cat ref.
Programming Tool	**EEK001**
Remote Control	**EEK002**

EE005

EEK005B

Accessories

Description	Cat ref.
Backbox for surface/conduit mounting of flush sensors	**EEK005**
Backbox for surface/conduit mounting of flush sensors - Black	**EEK005B** ★

Occupancy Sensors

Characteristics:
- Adjustment achieved by potentiometer only
- Automatic switching of electric loads depending on heat motion and ambient brightness
- **EE804A**: Surface-mounted installation
- **EE805A**: Cavity/Flush installation (75mm hole diameter)
- Combination of presence and motion detector with enhanced detection sensitivity in the central presence-detection area
- Response brightness adjustable
- Delay time adjustable
- Coverage 360 degrees, Diameter 6m @ 2.5m, (motion) enhanced detection area 4m Diameter (presence) @ 2.5m
- Factory presets: Lux = 200, Time = 3 Minutes

Description	Cat ref.
Movement Detector 360° Surface Mounted	**EE804A**
Movement Detector 360° Flush Mounted	**EE805A**

EE804A

EE805A

Mounting Options for Trunking

Mounting Accessory can be clipped into the rear or top channel slot.
It can be easily removed by inserting a screwdriver in the RELEASE slot.

Trunking

20mm conduit bush & lock nut

20mm cut out

Use a machine screw and nut to secure to trunking using mounting accessory
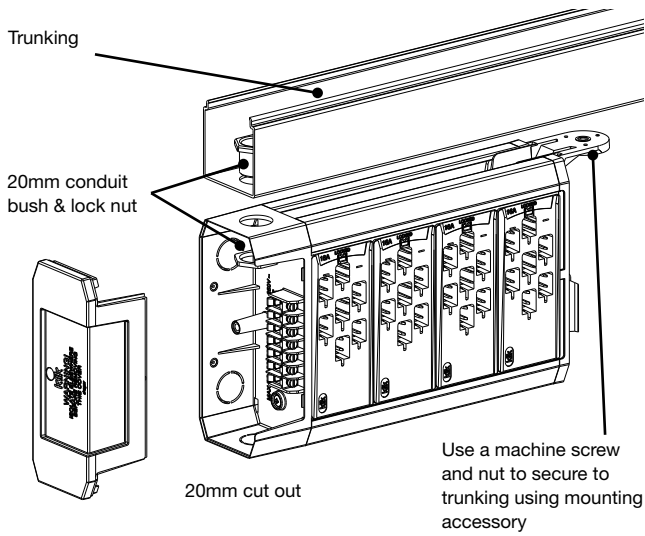
Fixed Wiring Connection

Klik 7 Pin LMB has seven screw terminals available to the installer and are arranged in the end cap as per diagram. DA+/DA- connections can be used for DALI/DSI control.

Neutral
Line
Switched Line
CPC
Data +
Data -
Emergency Line
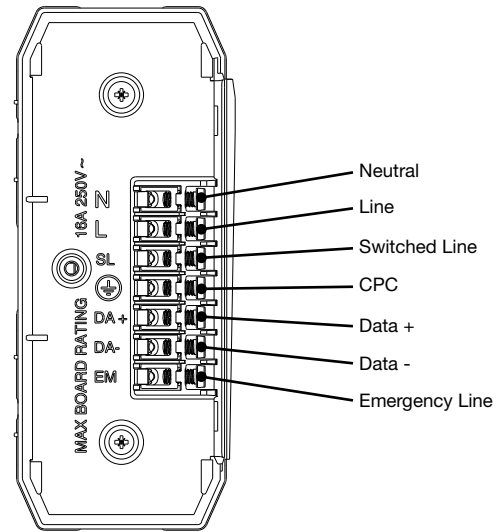
Mounting Options for Drop Rod (Lighting Marshalling Box)

Option 1.
Klik 7 Pin LMB features open ends to allow you to slide the box into position before tightening for easier installation, or push the box up on to the nut and rotate to locate and tighten to secure.
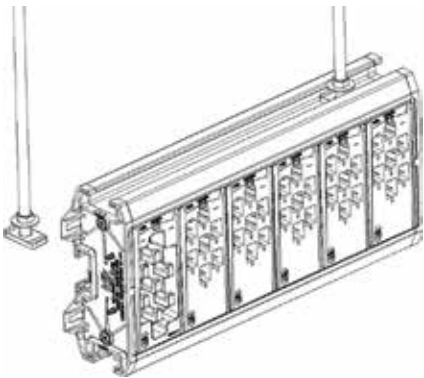
Option 2.
Single sided LMB can be mounted from the top as option 1 or from the rear as shown. Note: Double sided LMBs can only be mounted with option 1.
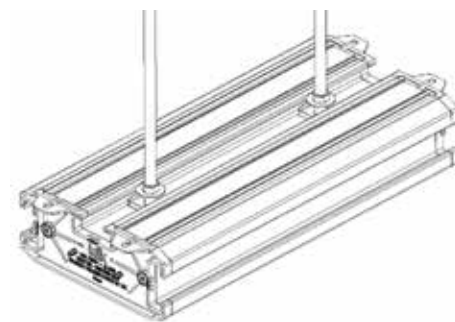
Mounting Options for Wall & Ceiling

Klik 7 Pin LMB includes the Klik mounting accessory, this makes it much easier to mount LMB with Nail Guns or traditional fixings. 2 accessories are included with each LMB. Mounting Accessory can be clipped into the rear or top channel slot. It can be easily removed by inserting a screwdriver in the RELEASE slot.
Note: Double sided LMB can only be mounted on top channel slot.
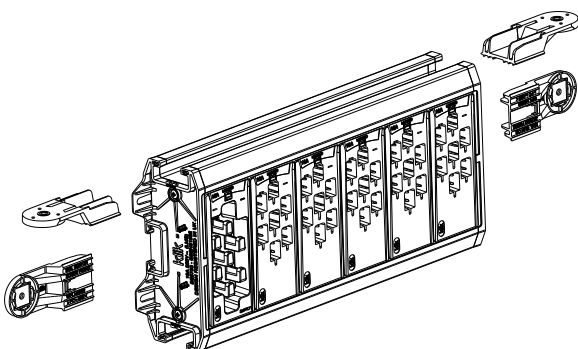
Screw mounting tabs (x4)
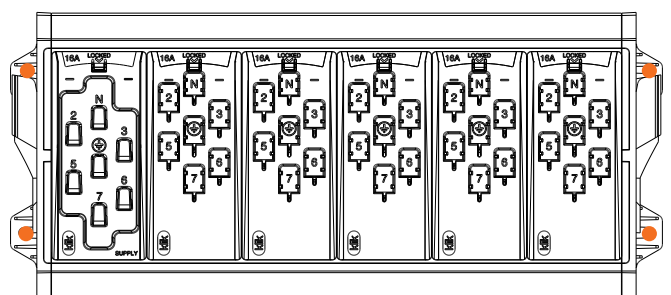
Lighting Marshalling Boxes (LMB) - Fixed Wiring
16A Rated LMB Complying to BS 5733:2010

Retained Cover
Screw
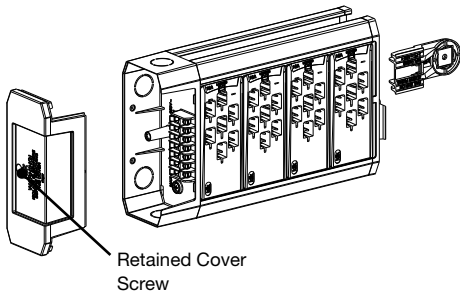
KLMB4W

KLMB6W

KLMB8W

KLMB10W

KLMB12W

Lighting Marshalling Boxes (LMB) - Pluggable
16A Rated LMB Complying to BS 5733:2010

Plug in supply (No wiring required)
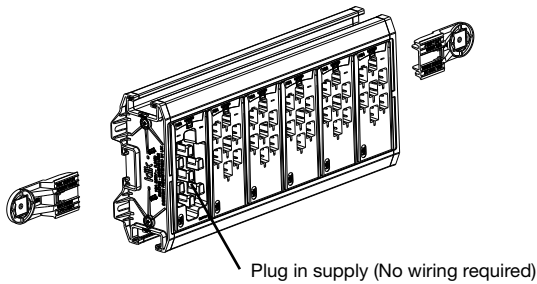
KLMB5P

KLMB7P
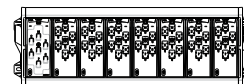
KLMB9P

KLMB11P
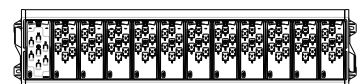
Dual Channel Lighting Marshalling Boxes (LMB) - Fixed Wiring
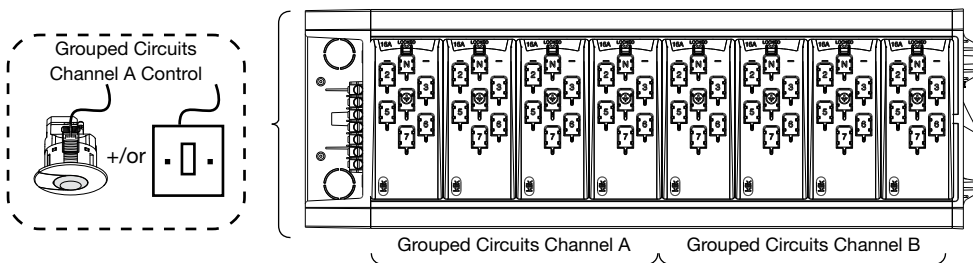16A Rated LMB complying to BS 5733:2010
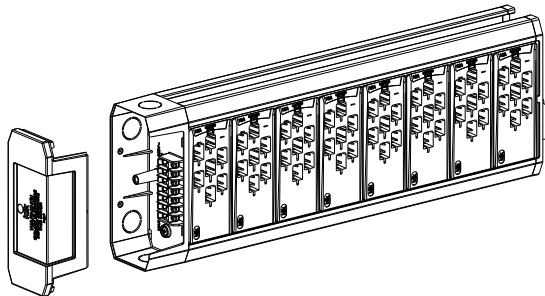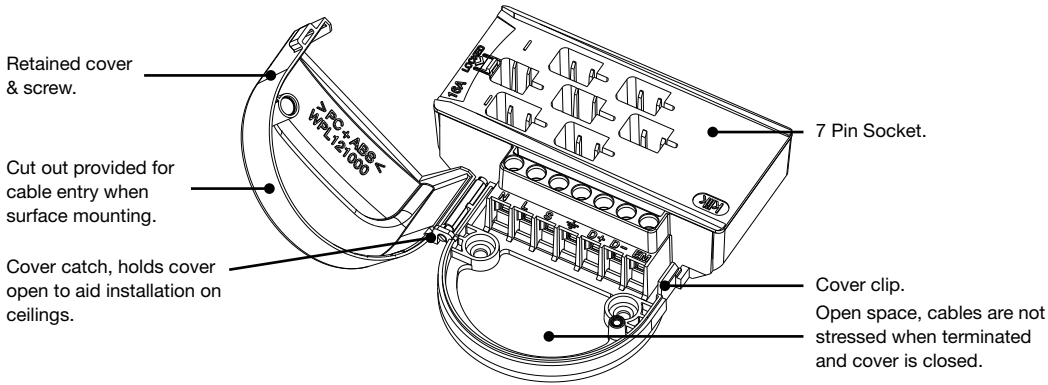

KLMB244W
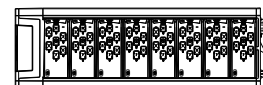
KLMB255W

KLMB266W

Grouped Circuits - Control

Grouped Circuits
Channel A Control

+/or

Grouped Circuits Channel A   Grouped Circuits Channel B

Grouped Circuits
Channel A Control

+/or

Grouped Circuits
Channel B Control

+/or

1. Grouped Circuits Channel A can be controlled by using pluggable sensors and/or pluggable switch. Alternatively hard wired sensors and/or switches can be used.

2. Grouped Circuits Channel B must use pluggable sensors and/or switches for control.
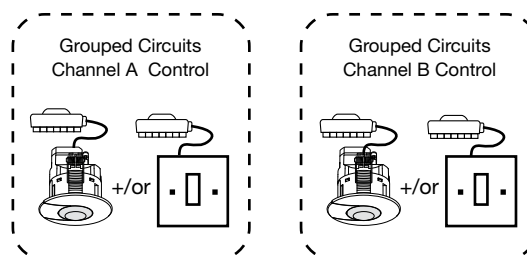
| Previous Part Reference	Description	New Part Reference	New Description
KLA/10/1-5P	16A Lighting Link Lead 10m 1.5mm 3 Core P-P	K7A10M15P ★	16A Lighting Link Lead 10m 1.5mm 3 Core P-P
KLA/5/1-5P	16A Lighting Link Lead 5m 1.5mm 3 Core P-P	K7A5M15P ★	16A Lighting Link Lead 5m 1.5mm 3 Core P-P
KLB/1/0-75W	16A Lighting Lead 1m 0.75mm 3 Core P-W	K7B1M075W ★	16A Lighting Lead 1.5m 0.75mm 3 Core P-W
KLB/1/1W	16A Lighting Lead 1m 1mm 3 Core P-W	K7B1M1W ★	16A Lighting Lead 1.5m 1mm 3 Core P-W
KLB/3/0-75W	16A Lighting Lead 3m 0.75mm 3 Core P-W	K7B3M075W ★	16A Lighting Lead 3m 0.75mm 3 Core P-W
KLB/3/1W	16A Lighting Lead 3m 1mm 3 Core P-W	K7B3M1W ★	16A Lighting Lead 3m 1mm 3 Core P-W
KLB/5/0-75W	16A Lighting Lead 5m 0.75mm 3 Core P-W	K7B5M075W ★	16A Lighting Lead 5m 0.75mm 3 Core P-W
KLB/5/1W	16A Lighting Lead 5m 1mm 3 Core P-W	K7B5M1W ★	16A Lighting Lead 5m 1mm 3 Core P-W
KLE/3/1-5W	16A Lighting Lead 3m 1.5mm 3 Core P-W	K7E3M15W ★	16A Lighting Lead 3m 1.5mm 3 Core P-W
KLE/5/1-5W	16A Lighting Lead 5m 1.5mm 3 Core P-W	K7E5M15W ★	16A Lighting Lead 5m 1.5mm 3 Core P-W
KLG/10/1-5P	16A Lighting Link Lead 10m 1.5mm 4 Core P-P	K7G10M15P ★	16A Lighting Link Lead 10m 1.5mm 4 Core P-P
KLG/5/1-5P	16A Lighting Link Lead 5m 1.5mm 4 Core P-P	K7G5M15P ★	16A Lighting Link Lead 5m 1.5mm 4 Core P-P
KLJ/1/0-75W	16A Lighting Lead 1m 0.75mm 4 Core P-W	K7J1M075W ★	16A Lighting Lead 1.5m 0.75mm 4 Core P-W
KLJ/1/1W	16A Lighting Lead 1m 1mm 4 Core P-W	K7J1M1W ★	16A Lighting Lead 1.5m 1mm 4 Core P-W
KLJ/3/0-75W	16A Lighting Lead 3m 0.75mm 4 Core P-W	K7J3M075W ★	16A Lighting Lead 3m 0.75mm 4 Core P-W
KLJ/3/1-5P	16A Lighting Lead 3m 1.5mm 4 Core P-P	K7J3M15P ★	16A Lighting Lead 3m 1.5mm 4 Core P-P
KLJ/3/1W	16A Lighting Lead 3m 1mm 4 Core P-W	K7J3M1W ★	16A Lighting Lead 3m 1mm 4 Core P-W
KLJ/5/0-75W	16A Lighting Lead 5m 0.75mm 4 Core P-W	K7J5M075W ★	16A Lighting Lead 5m 0.75mm 4 Core P-W
KLJ/5/1-5P	16A Lighting Lead 5m 1.5mm 4 Core P-P	K7J5M15P ★	16A Lighting Lead 5m 1.5mm 4 Core P-P
KLJ/5/1W	16A Lighting Lead 5m 1mm 4 Core P-W	K7J5M1W ★	16A Lighting Lead 5m 1mm 4 Core P-W
KLK/5/1-5P	16A Lighting Link Lead 5m 1.5mm 5 Core P-P	K7K5M15P ★	16A Lighting Link Lead 5m 1.5mm 5 Core P-P
KLP/1/0-75W	16A Lighting Lead 1m 0.75mm 5 Core P-W	K7P1M075W ★	16A Lighting Lead 1.5m 0.75mm 5 Core P-W
KLP/1/1-5W	16A Lighting lead 1m 1.5mm2 5 core P-W	K7P1M15W ★	16A Lighting lead 1.5m 1.5mm2 5 core P-W
KLP/1/1W	10A Lighting lead 1m 1mm2 5 core P-W	K7P1M1W ★	10A Lighting lead 1.5 1mm2 5 core P-W
KLP/3/0-75W	16A Lighting Lead 3m 0.75mm 5 Core P-W	K7P3M075W ★	16A Lighting Lead 3m 0.75mm 5 Core P-W
KLP/3/1-5W	16A Lighting Lead 3m 1.5mm 5 Core P-W	K7P3M15W ★	16A Lighting Lead 3m 1.5mm 5 Core P-W
KLP/3/1W	16A Lighting Lead 3m 1mm 5 Core P-W	K7P3M1W ★	16A Lighting Lead 3m 1mm 5 Core P-W
KLP/5/0-75W	16A Lighting Lead 5m 0.75mm 5 Core P-W	K7P5M075W ★	16A Lighting Lead 5m 0.75mm 5 Core P-W
KLP/5/1-5W	16A Lighting Lead 5m 1.5mm 5 Core P-W	K7P5M15W ★	16A Lighting Lead 5m 1.5mm 5 Core P-W
KLP/5/1W	16A Lighting Lead 5m 1mm 5 Core P-W	K7P5M1W ★	16A Lighting Lead 5m 1mm 5 Core P-W
KLT/1/0-75W	16A Lighting Lead 1m 0.75mm 6 Core P-W	K7T1M075W ★	16A Lighting Lead 1.5m 0.75mm 6 Core P-W
KLT/1/1W	16A Lighting Lead 1m 1mm 6 Core P-W	K7T1M1W ★	16A Lighting Lead 1.5m 1mm 6 Core P-W
KLT/3/0-75W	16A Lighting Lead 3m 0.75mm 6 Core P-W	K7T3M075W ★	16A Lighting Lead 3m 0.75mm 6 Core P-W
KLT/3/1-5P	16A Lighting Lead 3m 1.5mm 6 Core P-P	K7T3M15P ★	16A Lighting Lead 3m 1.5mm 6 Core P-P
KLT/3/1W	16A Lighting Lead 3m 1mm 6 Core P-W	K7T3M1W ★	16A Lighting Lead 3m 1mm 6 Core P-W
KLT/5/0-75W	16A Lighting Lead 5m 0.75mm 6 Core P-W	K7T5M075W ★	16A Lighting Lead 5m 0.75mm 6 Core P-W
KLT/5/1-5P	16A Lighting Lead 5m 1.5mm 6 Core P-P	K7T5M15P ★	16A Lighting Lead 5m 1.5mm 6 Core P-P
KLT/5/1W	16A Lighting Lead 5m 1mm 6 Core P-W	K7T5M1W ★	16A Lighting Lead 5m 1mm 6 Core P-W
KLTB/1/1-5W	16A T Connector 1m 1.5mm 3 Core P-W	K7B1M15WTEE ★	16A T Connector 1.5m 1.5mm 3 Core P-W
KLTJ/1/1-5W	16A T Connector 1m 1.5mm 4 Core P-W	K7J1M15WTEE ★	16A T Connector 1.5m 1.5mm 4 Core P-W
KLTP/1/1-5W	16A T Connector 1m 1.5mm 5 Core P-W	K7P1M15WTEE ★	16A T Connector 1.5m 1.5mm 5 Core P-W
KLTT/1/1-5W	16A T Connector 1m 1.5mm 6 Core P-W	K7T1M15WTEE ★	16A T Connector 1.5m 1.5mm 6 Core P-W
KLZ/3/1-5P	16A Lighting Link Lead 3m 1.5mm 7 Core P-P	K7Z3M15P ★	16A Lighting Link Lead 3m 1.5mm 7 Core P-P
KLZ/5/1-5P	16A Lighting Link Lead 5m 1.5mm 7 Core P-P	K7Z5M15P ★	16A Lighting Link Lead 5m 1.5mm 7 Core P-P

Data is subject to errors and technical modifications. ★ **New.**

KLPCR - Surface Mount Connector

Retained cover
& screw.

Cut out provided for
cable entry when
surface mounting.

Cover catch, holds cover
open to aid installation on
ceilings.

7 Pin Socket.

Cover clip.

Open space, cables are not
stressed when terminated
and cover is closed.

PCR can be mounted in two ways, firstly on to conduit box or secondly direct on to a surface.
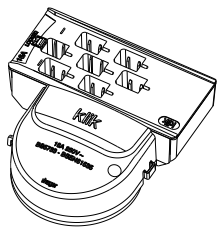
Terminating cables.
Terminal screws are retained in pockets.
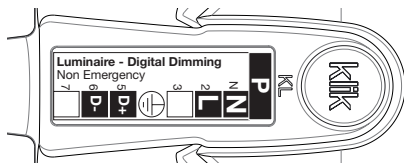Max Terminal Capacity 2x4mm²
Conductor strip length: 10mm.

Neutral
Line
Switch Line
CPC
Data +
Data -
Emergency Line
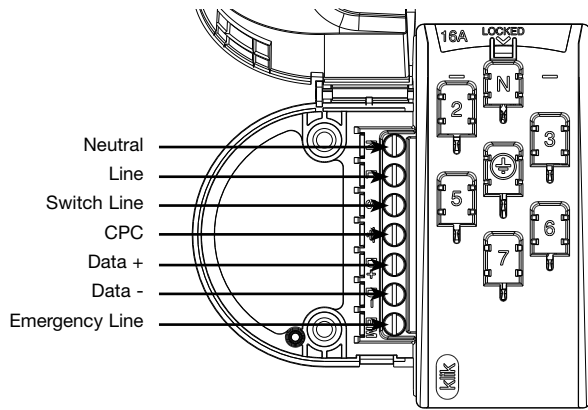
K7PLUG Wireable Plug Configurations and Labels

Self Adhesive ID Labels:
Apply label for the type of lead you are making.

Lighting configurations for on / off and dimmable solutions.

Luminaire - Digital Dimming
Non Emergency

Luminaire Connections

On/Off
Non Emergency — B

On/Off
Switched Emergency — J

Digital Dimming
Non Emergency — P

Digital Dimming
Emergency — T

Emergency Exit — E

Switch Drops

1 Gang - 1 Way or Retractive
N/O for Digital OS Wall Dimming Control — D

Retractive N/O Switch Absense
or Override off for OS — L

Switch Drop for Emergency
Key Switch — C

2 Gang, 1 Way plus Emergency
Key Switch — H

2 Gang, 2 Way Plus Emergency
Key Switch — R

Link Lead

Power Only — A

Power with Emergency — G

Power with Switching and
Emergency — K

Power, Switched Line, Control &
Emergency — N

DALI Link Lead — W

EEK Sensors

Detection areas
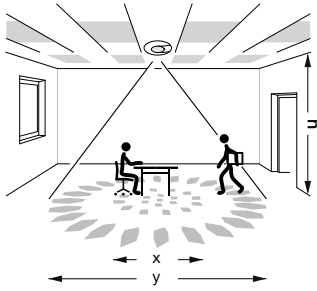
H	2.5m	3m	3.5m
X	5m	5m	5m
Y	7m	8m	9m

Mounting

ceiling

Protective cover

Cable clamp

For programming and control see page 34.

D 5m S

2.5m 2.5m

1m

Settings EEK513P/EEK515P EEK523P/EEK525P

auto
test · 1
lux
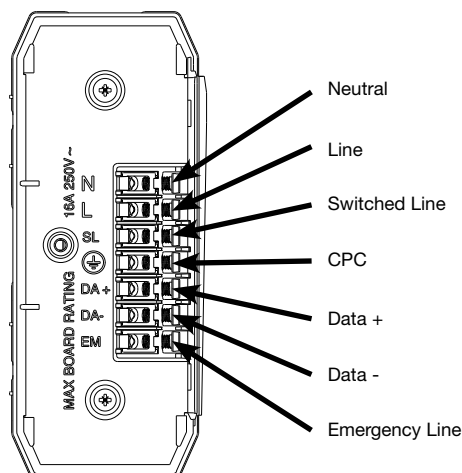· 2
on
· 1 min
· 20 min
1 h

EE804A / EE805A Sensors

(3) (2) (1)
9)
(4)
(8)
(5)
6 7

(12)
(4) (11)
(10) (10)
(5)
6 7

2,5 m
2 m
1 m
3 m 2 m 0 m 2 m 3 m
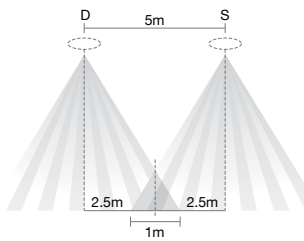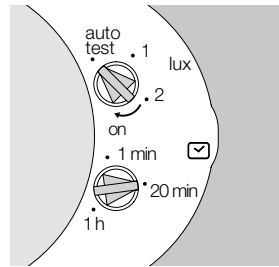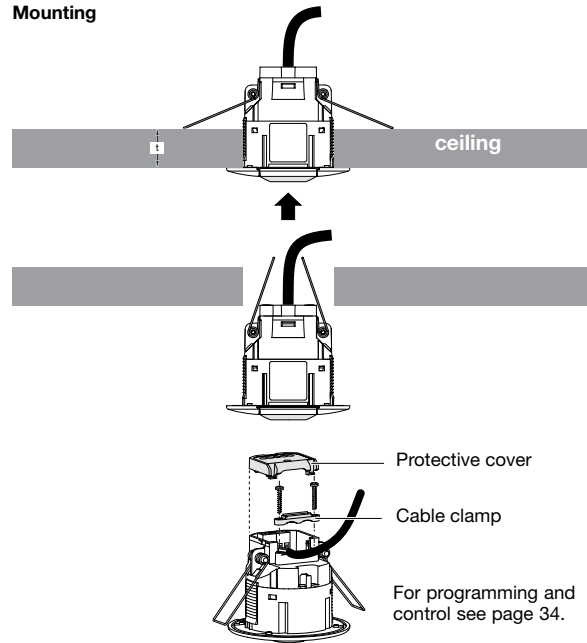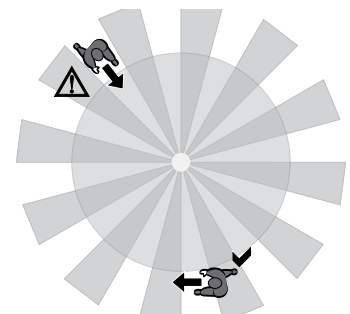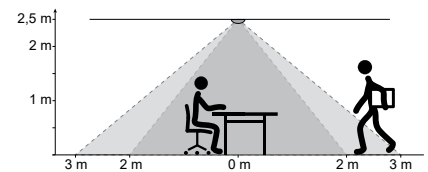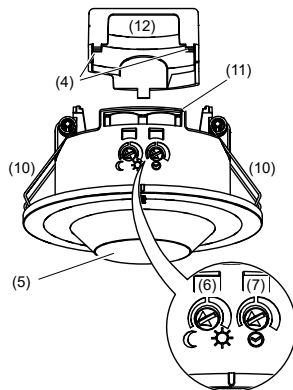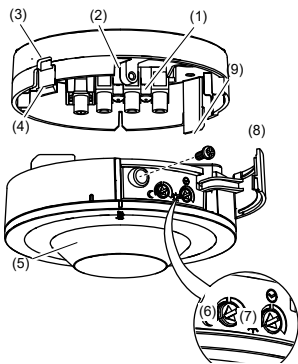
1. Connecting terminals
2. Mounting device locking screw
3. Release opening
4. Fastening grids
5. Detector lens
6. Response brightness potentiometer
7. Potentiometer delay time

8. Cover for potentiometer
9. Locking screw
10. Fixing springs
11. Strain relief with mounting device for cable ties
12. Cover for connection compartment

Manual dimming with retractable switch (no OS)

16A 250V ~
N
L
SL
DA+
DA-
EM
MAX BOARD RATING

Neutral

Line

Switched Line

CPC

Data +

Data -

Emergency Line

Hager Sollysta retractable wall switch references

Description	Cat ref.
1 Gang Grid Plate	**WMGP1**
1 Gang Grid Frame	**WMGF1**
2 Way & Centre Off Retractive Wall Switch	**WMGS13R**

N
L
SwL
E
D+
D-
Em
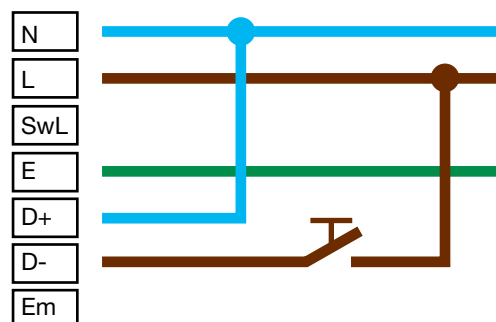
Klik 7 Pin Product Standards

| Product Description	Klik Product identification	BS number	Description
Klik 7 pin Marshalling Boxes	KLMB*W / P	BS 5733:2010	General Requirements for Electrical Accessories.
Occupancy Sensor	EEK*	IEC 60669-1, IEC 60669-2-1	Switches for household & similar fixed electrical installations Part 2-1 for Electronic switches.
Conduit Box / Surface Connector	KLPCR/7	BS 5733:2010	General requirements for Luminaire supporting couplers for domestic, light industrial & commercial use.
Luminaire Leads	K7B*, K7J*, K7P*, K7T*	BS 5733:2010 BS EN 61535	Thermosetting insulated & thermoplastic sheathed cables for voltages up to & including 450 / 750 V for electric power & lighting & having low emission of smoke & corrosive gases when affected by fire.
LS0H Flexible Cord	Supplied with luminaire lead	BS 6500:2000 BS 7211:2012	Thermosetting insulated & thermoplastic sheathed cables for voltages up to & including 450 / 750 V for electric power & lighting & having low emission of smoke & corrosive gases when affected by fire.

Klik 4 Pin Product Standards

Product Description	Klik Product identification	BS number	Description
Klik Distribution Boxes	KLDS KLMB	BS 5733:2010	General requirements for Electrical Accessories
Occupancy Sensor	EEK*W	BS EN 60669-1, BS EN 60669-2-1	Switches for household & similar fixed electrical installations Part 2-1 for Electronic switches.
Mounting Boxes	MB	BS 5733:2010	General requirements for Electrical Accessories
Klik Ceiling Roses, Plugs, Outlets & Pre-Wired Leads	S, P, PCR	BS 5733:2010 BS 6972:1988	General requirements for Electrical Accessories General requirements for Luminaire supporting couplers for domestic, light industrial & commercial use Installation couplers intended for permanent connection in fixed installations
PVC Flexible Cord	PVC	BS 6500:2000	Thermosetting insulated & thermoplastic sheathed cables for voltages up to & including 450 / 750 V for electric power & lighting & having low emission of smoke & corrosive gases when affected by fire.
LSF Flexible Cord	LS0H	BS 6500:2000 BS 7211:1998	Thermosetting insulated & thermoplastic sheathed cables for voltages up to & including 450 / 750 V for electric power & lighting & having low emission of smoke & corrosive gases when affected by fire.

Product Materials
Klik plugs and sockets feature solid brass terminals and phosphor bronze contacts for good conductivity. Moulded components are manufactured from high quality thermoplastics.

Klik Terminal Capacities

	Number of Conductors				
	0.75mm²	1.0mm²	1.5mm²	2.5mm²	4.0mm²
Socket Outlets	-	5	4	3	2
Plugs P22, P64X, K7PLUG	1	1	1	-	-
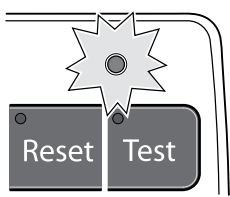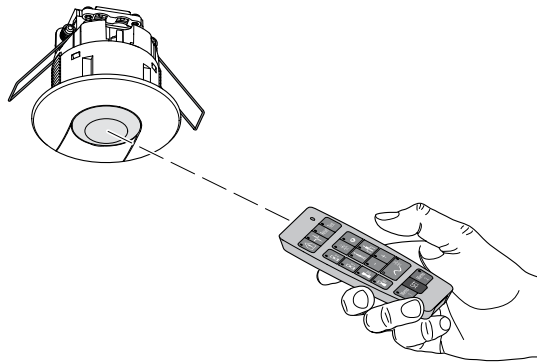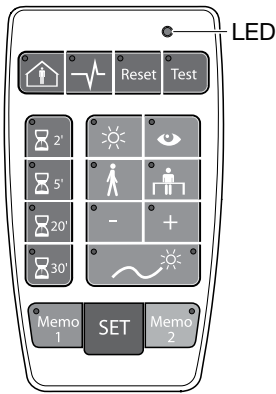
LED

The acknowledgment LED blinks during the sending of the IR message.

Reset Test

Technical specification
Power supply:1x 3V CR2032
Shelf life of battery: 2½ years
Protection index: IP 30

Use
The remote control allows the user to set or modify presence detector settings. When the potentiometer is on auto test it allows single and multiple settings. The SET key is used to send the IR messages to the occupancy sensors. Multiple settings can be stored in Memo 1 and Memo 2 and re-called to set several devices.
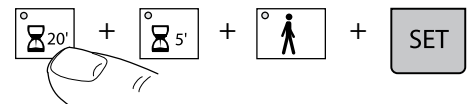
Single setting
Example: reset

Reset + SET

Multiple settings
Define the parameters to be changed and press SET to send.
Example: for 25 minutes and corridor use, press 20', 5' and corridor.

20' + 5' +   + SET

In the case of 2 opposite states the green LED denotes ON and red LED denotes OFF (except Presence / Absence).
When no function is selected all LED's are OFF.
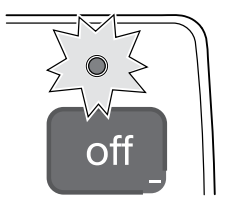
Settings available

Key	Meaning	Indication	Function
Presence	Presence	Green LED on	Presence on (automation mode)
	Absence	Red LED on	Absence on (semi automatic mode)
Power Up	Power Up	Green LED on	The light is automatically switched on for 30 seconds after power up
		Red LED on	During warm up phase, the light output is off
Reset	Reset	LED on	To return to factory settings (Lux = 400, time = 20 min, presence on, power up off and cell active)
Test	Test	LED on	To validate the detection area
Time	Time	LED on	To set the time. It is possible to add times together e.g. press 2' and 5' for a time value of 7'
Day level	Day level 1000 Lux	LED on	To set the value to 1000 Lux
Learn	Learn	LED on	To learn the current Lux level
Corridor	Corridor 200 Lux	LED on	To set the value to 200 Lux
Office	Office 400 Lux	LED on	To set the value to 400 Lux
+	Lux +	LED on	To increase the Lux level (+100)
–	Lux -	LED on	To decrease the Lux level (-100)
Active cell	Active cell	Green LED on	The light is continuously measured
	Passive cell	RED LED on	The sensor will not switch the light off even if the ambient luminosity is sufficient

Memo and set Key	Meaning	Indication	Function
Memo 1	Press	LED is on until a setting is changed	To load/unload Memo 1
	Long press	LED is on for 5s, then will blink until released. After release, the LED goes off in case of setting change	To save the current setting as Memo 1
Memo 2	Press	LED is on until a setting is changed	To load/unload Memo 2
	Long press	LED is on for 5s, then will blink until released. After release, the LED goes off in case of setting change	To save the current setting as Memo 2
SET	Short press (<5s)	LED flashes	To send an IR message of the current setting
	Long press (>5s but <10s) only available if no setting active	LED blinks until release press	To toggle automatic mode on DALI/DSI

:hager

LED
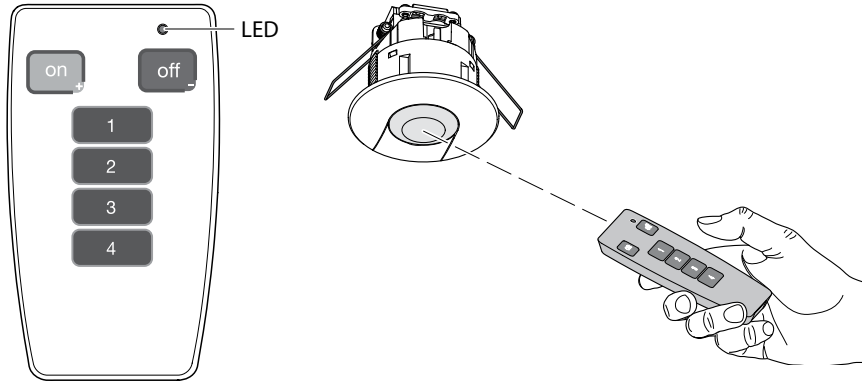
Use
The remote control allows the user to set or modify settings on the presence detectors **EEK513W** and **EEK510B**.

Each button corresponds to a command.

The acknowledgment LED blinks during the sending of the IR message.

Technical specification
Power supply: 1x 3V CR2032
Shelf life of battery: 3½ years
Protection index: IP 30

Settings available

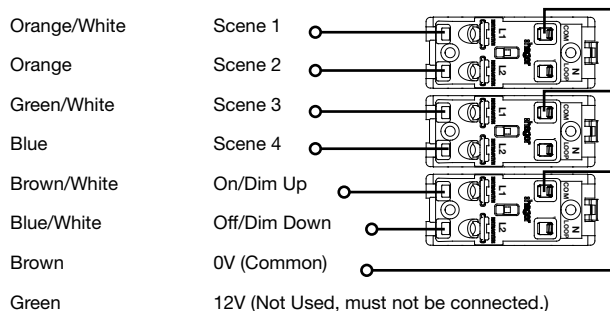| Key	Action	Function	Product Type
on +	Short Press (< 5s.)	On	**EEK513W / EEK510B**
	Long Press (> 5s.)	Dim up	**EEK513W / EEK510B**
off –	Short Press	Off	**EEK513W / EEK510B**
	Long Press (> 5s.)	Dim down	**EEK513W / EEK510B**
1	Short Press	To start scene 1	
2	Short Press	To start scene 2	
3	Short Press	To start scene 3	
4	Short Press	To start scene 4	

Fixing Methods
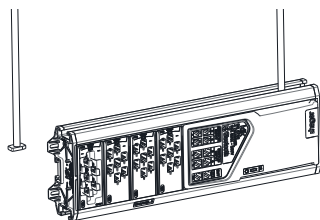
Drop Rods
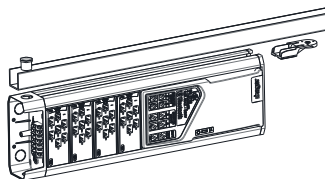
Trunking
(Not possible for plug-in **KLCM412P**)
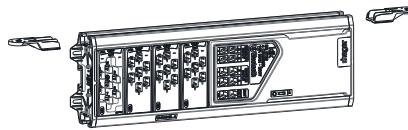
Direct: e.g. nail gun or screw fixing
(not possible for hard-wire **KLCM413W**)

**Switch inputs - 1 to 4 (retractive wall switch ref: WMGS13R)**

Orange/White	Scene 1
Orange	Scene 2
Green/White	Scene 3
Blue	Scene 4
Brown/White	On/Dim Up
Blue/White	Off/Dim Down
Brown	0V (Common)
Green	12V (Not Used, must not be connected.)

Emergency test in & out

Orange/White	Override - All Outputs On
Orange	Override - All Outputs Off
Green/White	Corridor Hold Line
Blue	Emergency Test (Timer 1)
Blue/White	Emergency Test (Timer 2)
Green	Emergency Test (Timer 3)
Brown	Common
Brown/White	Not Used.

Occupancy Sensor Technical Characteristics

Technical Characteristics	KLCM-OS	KLCM-1OS	KLCM-3OS	KLCM-5OS
Supply Voltage	12V DC	SELV (12VDC)	SELV (12VDC)	SELV (12VDC)
Detection Area	Motion area: diameter 6m (product installed at 2½m height) presence area: diameter 6m (product installed at 2½m height)	360º 10m	360º 5m to 15m	360º 15m
Receiver Class	2	2	2	2
Parasitic Power		.672mW	.672mW	1.044mW
Duration of lighting output operation	Via KlikLink App & LCM	Via KlikLink App & LCM	Via KlikLink App & LCM	Via KlikLink App & LCM
Luminocity threshold	Via KlikLink App & LCM	Via KlikLink App & LCM	Via KlikLink App & LCM	Via KlikLink App & LCM
Recommended installation height	2.5m	2.5m	2.5m	2.5m
Operating temperature	-20C to +60C	-20ºC to +50ºC	-20ºC to +50ºC	-20ºC to +50ºC
Storage temperature	-2-C to +70C	-35ºC to +70ºC	-35ºC to +70ºC	-35ºC to +70ºC
Insulation class	II	II	II	II
Protection rating	IP41	IP41	IP41	IP41
Standards	BS EN 55015:2013	BS EN55015:2013, BS EN61547:2009	BS EN55015:2013, BS EN61547:2009	BS EN55015:2013, BS EN61547:2009
Maximum installation altitude	2000m	2000m	2000m	2000m
Polution degree	2	2	2	2
Connection	RJ11	RJ11 6P4C	RJ11 6P4C	RJ11 6P4C
Dimensions		High: 70mm, Diameter: 101mm	High: 70mm, Diameter: 101mm	High: 70mm, Diameter: 101mm
Weight		110 grams	110 grams	110 grams
Mounting hole diameter		85mm	85mm	85mm

:hager
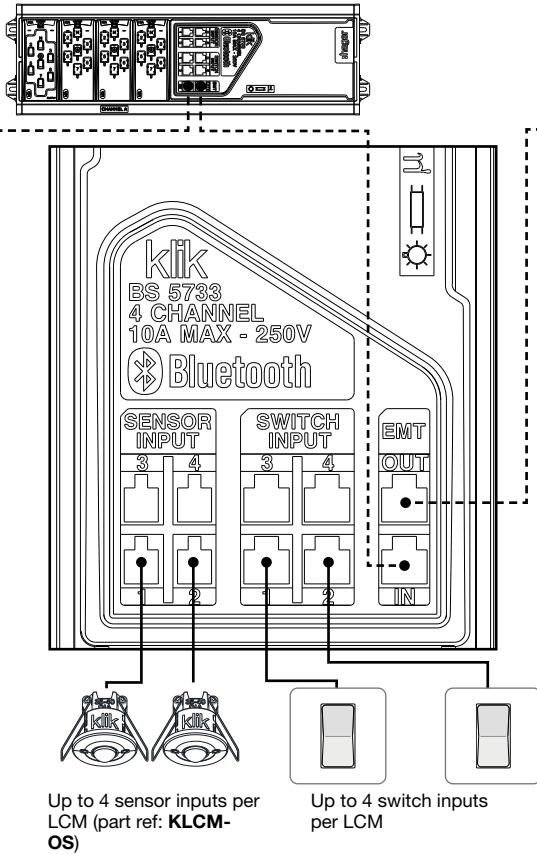
- Plug-in sensor and switch control
- Any port can be configured via the KlikLink App.
- Grouping LCMs via RJ45 leads for corridor hold and groups for emergency test
- Programmed via the KlikLink app. Download from the App Store.

Up to 4 sensor inputs per LCM (part ref: **KLCM-OS**)

Up to 4 switch inputs per LCM

Wiring accessories from the Sollysta Grid range

| Centre off retractive switch module	**WMGS13R**
White moulded Grid Plates	**WMGPx** (1,2,3,4,6 & 8) G
Grid Frames	**WMGFx** (1,2 & 3/4) G

Technical Characteristics

Number of channels	4
Number of outputs per channel	3 (hard wired LCM has 4 outputs on channel A)
Number of sensor inputs	4 (**KLCM-OS 1OS / 3OS / 5OS**)
Number of switch inputs	4
Supply Voltage	230V AC 50Hz
Rated current	10A (total load)
Rated current each connector	10A
Complies with	BS 5733:2010, BS EN 60669-2-5 BS EN 61535:2009 - (Excluding clauses 10.1 and 10.3 due to Aluminium enclosure)
IP protection	IP20
Connection for programming	Bluetooth Smart (Bluetooth 4) (only available on Apple iPad)
Dimensions	Height 145mm	Width 440mm	Depth 58mm	Weight 1.9kg

Supply input connection

Hard wired

Neutral
Line
CPC
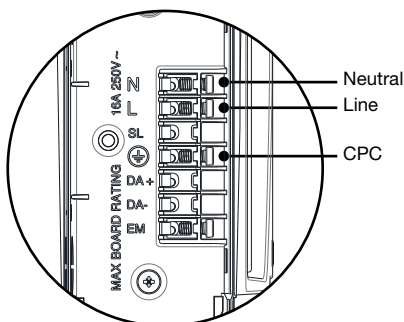
Pluggable
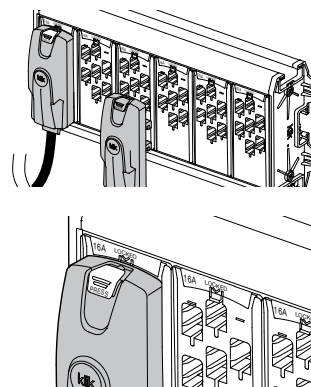
- Connecting the supply lead: plug in and push down
- Disconnecting the supply lead: press button and push up.

Plug colour coding
White: Luminaire Lead
Red: Luminaire & Emergency
Black: Link Lead

Klik 4

Technical characteristics	+ 3m Lead, Flush Mount	Wireable, Flush Mount	Klik 4 Direct Plug-In	Wireable, Surface Mount	Wireable, Flush Mount
	EEK513W	**EEK510B/EE815B**	**KLOS6LR**	**EE804A**	**EE805A**
Supply voltage	230V~ 50Hz	230V~ 50Hz	230V - 50Hz	230V - 50Hz	230V - 50Hz
Detection type	Presence	Presence	Presence	Motion / Presence	Motion / Presence
Parasitic power	270mW	270mW	-	0.3W	0.3W
Detection (Length)	7m	7m	25m	6m	6m
Detection (Width)	7m	7m	-	6m	6m
Detection angle	360°	360°	6-18°	360°	360°
Detection frequency	-	-	-	-	-
Receiver class	-	-	-	-	-
Standby consumption	2.4VA/270mW	2.4VA/270mW	-	-	-
Duration of lighting output operation (S1)	1min to 1hour	1min to 1hour	10 Secs to 40 Mins	5s - 30min	5s - 30min
Duration of time delay (S2)	-	-	-	-	-
Luminosity threshold	5 to 1000 Lux	5 to 1000 Lux	30 Lux	5 - 1000	5 - 1000
Recommended installation height	2.5m	2.5m	2.5m	2.5m	2.5m
Operating temperature	-10°C to +45°C	-10°C to +45°C	-	-5 - +45	-5 - +45
Storage temperature	-20°C to +60°C	-20°C to +60°C	-	-25 - +70	-25 - +70
Insulation class	II	II	-	11	11
Protection rating	IP41	IP41	IP20	IP21	IP21
Standards	BS EN 60669-1 BS EN 60669-2-1	BS EN 60669-1 BS EN 60669-2-1	-		
Pollution degree	2	2	-		
Connection stranded	0.5mm^2 to 1.5mm^2	0.5mm^2 to 1.5mm^2	-	1mm - 2.5mm	1mm - 2.5mm
Connection solid	0.5mm^2 to 1.5mm^2	0.5mm^2 to 1.5mm^2	-	1mm - 2.5mm	1mm - 2.5mm
Switching channel	1	1	1	1	1
Lighting loads 230V~ AC1	16A	16A	6A	10A	10A
Switching capacity (Incandescent)	2300W	2300W	1500W	2300W	2300W
Halogen lamps LV	-	-	-		
Halogen ELV (12 or 24V) via ferromagnetic or electronic transformer	1500W	1500W	-	2300W	2300W
Compact fluorescent	23 X 23W	23 X 23W	1500W Max	20 x 20W	20 x 20W
LED	20 X20W	20 X20W	500W Max	20 x 20W	20 x 20W
Parallel compensated fluorescent tubes	1000W	1000W	500W Max	1000W	1000W
Fluorescent tubes non-compensated	1000W	1000W	-	1000W	1000W
Electronic ballast	-	-	750W-	1000W	1000W
DSI/DALI ballast	-	-	-	-	-
Remote programming	EEK001	EEK001	-	-	-
Remote control	EEK002	EEK002	-	-	-
Adjustable shutters (supplied)	✗	✗	✗	✗	✗
Dimensions (L*W*H)	80 x 80 x 70mm	80 x 80 x 70mm	80 x 80 x 50mm	ø 100 x 50mm	ø 90 x 61mm

Klik 7 / Special Applications

| Klik 7			Special Applications		
On / Off, Plug-In Flush, 3m / 5m	Digital, Plug-In Flush, 3m / 5m	Digital, Wireable, Flush	Wireable, Surface Mount, Corridor	Wireable, Surface Mount, Hyper Frequency	Wireable, Semi-Recessed, 1 / 2 Channel
EEK513P EEK515P	**EEK523P EEK525P**	**EEK520B**	**EE880**	**EE883**	**EE810 / EE811**
230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Presence	Presence	Presence	Motion	Motion	Presence
60mW	60mW	60mW	1W	1W	1.2W
7m	7m	7m	20m	1m to 8m	15.5m
7m	7m	7m	4m	1m to 8m	8m
360°	360°	360°	360°	360°	360°
-	-	-	-	5.8 Ghz ± 0.075 Ghz	-
-	-	-	-	2	-
60mW	60mW	60mW	1W	1W	1.2W
1min to 1hour	1min to 1hour	1min to 1hour	5sec to 15 min	5sec to 15 min	1min to 30min
-	-	-	-	-	30sec to 60min
5 to 1000 Lux	5 to 1000 Lux	5 to 1000 Lux	2 to 2000 lux	2… 2000 lux	5 to 1200Lux
2.5m	2.5m	2.5m	3 m	2.5 m	3 m
-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	20°C to +50°C	20°C to +50°C	0°C to +45°C
-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	35°C to +70°C	35°C to +70°C	10°C to +60°C
II	II	II	II	II	II
IP41	IP41	IP41	IP54	IP54	IP41
BS EN 60669-1 BS EN 60669-2-1	BS EN 60669-1 BS EN 60669-2-1	BS EN 60669-1 BS EN 60669-2-1	BS EN 60669-1 BS EN 60669-2-1	BS EN 60669-2-1 EN 300 440-1 V1.3.1	BS EN 60669-1 BS EN 60669-2-1
2	2	2	2	2	2
0.5mm² to 1.5mm²	0.5mm² to 1.5mm²	0.5mm² to 1.5mm²	Max 1.5mm²	Max 1.5mm²	1mm² to 4mm²
0.5mm² to 1.5mm²	0.5mm² to 1.5mm²	0.5mm² to 1.5mm²	Max 1.5mm²	Max 1.5mm²	1mm² to 4mm²
1	1	1	1	1	1 · 2
-	-	-	10A	10A	16A · 2A
-	-	-	2300W	2300W	2300W
-	-	-	2300W	2300W	-
-	-	-	1500VA	1500VA	1500W
-	-	-	20 x 20W	20 x 20W	20 X 18W
-	-	-	20 x 20W	20 x 20W	20 X 18W
-	-	-	1000W/C=110µf	1000W/C=110µf	290W/C=32µf
-	-	-	1200W	1200W	-
-	-	-	580W	580W	1000W
Yes (24)	Yes (24)	Yes (24)	-	-	-
EEK001	EEK001	EEK001	✗	✗	✗
EEK002	EEK002	EEK002	✗	✗	✗
✗	✗	✗	✗	✗	✗
80 x 80 x 70mm	80 x 80 x 70mm	80 x 80 x 70mm	125 x 125 x 60mm		110 x 110 x 70mm

Mounting Methods
- Hanging from ceiling suspension system with Caddy Clips™
- Direct fixing to lighting trunking
- Direct fixing to ceiling or wall with No. 8 screws
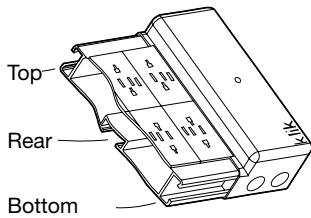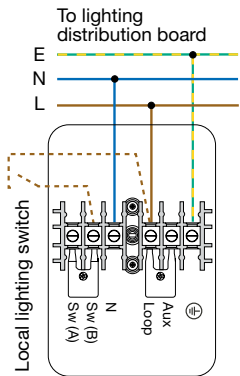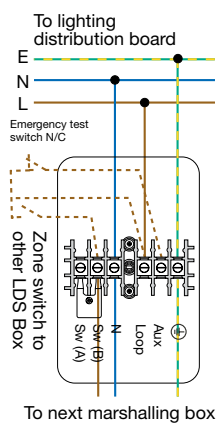
Drop rods on sides
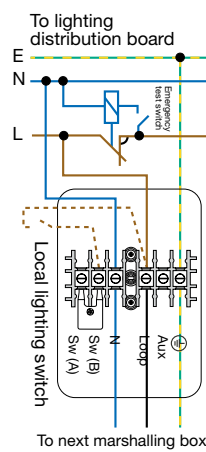
Screw to surface

Drop rods on rear

Top

Rear

Bottom

Local Lighting Switch Control
Permanent emergency feed

To lighting distribution board

E
N
L

Local lighting switch

N
Sw (B)
Sw (A)
Aux
Loop

Local Lighting Switch Control
Centralised emergency test via key switch

To lighting distribution board

E
N
L

Emergency test switch N/C

Zone switch to other LDS Box

Sw (B)
Sw (A)
N
Aux
Loop

To next marshalling box

Zone Lighting Control
Local emergency test control

To lighting distribution board

E
N
L

Emergency test switch

Local lighting switch

Sw (B)
Sw (A)
N
Aux
Loop

To next marshalling box

All ways switched by a single Hager EEK513W occupancy sensor

Circuit B

Normally open retractive wall switch

SW(A)
SW(B)
N
LOOP
AUX

Copper Link (1)
Copper Link (2)

Terminal block wall switch (grey)

LOOP
NEUTRAL
SWITCH RETURN

Circuit A

LOOP (brown)
NEUTRAL (blue)
Sw B (black)
Sw A (black)

EEK513W

Switch wire to be connected as required.
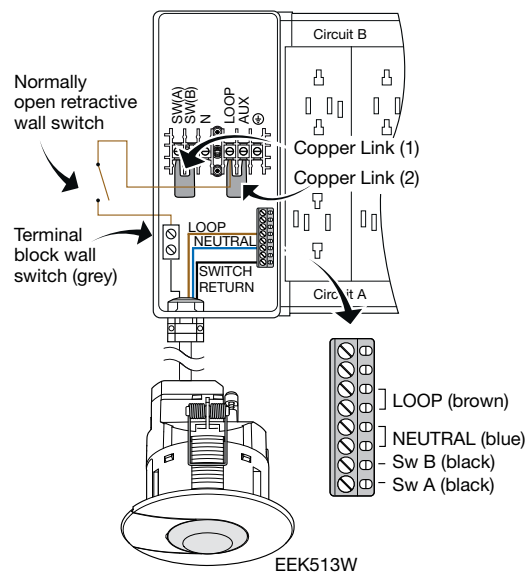
Connected directly to a single luminaire

Normally open retractive wall switch

E
N
L
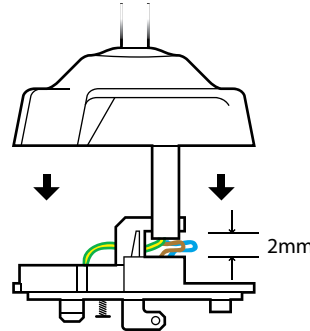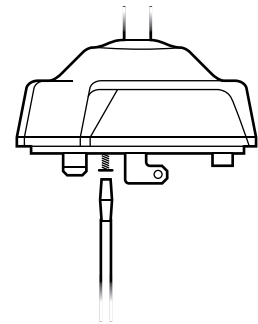
NEUTRAL
LINE
SWITCHED LINE

5mm
40mm

5mm
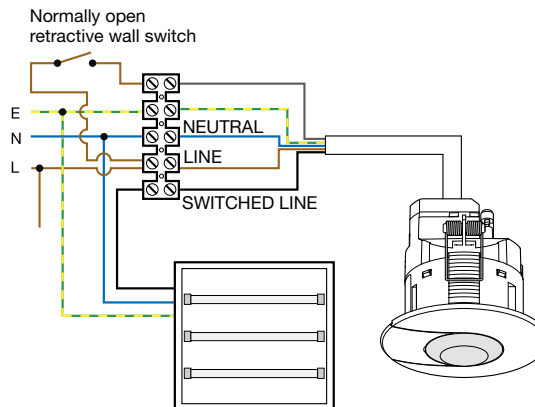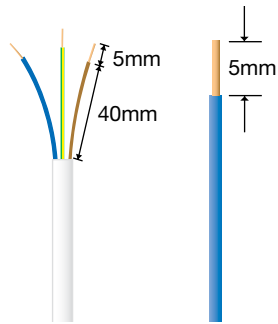
1. Strip cable as above -
Note: Trim cable tails to double over for better terminal contact.

2mm
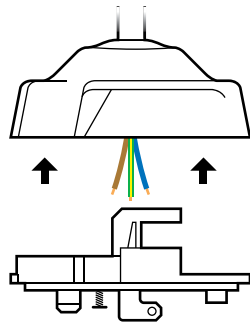
2. Remove plug cover.

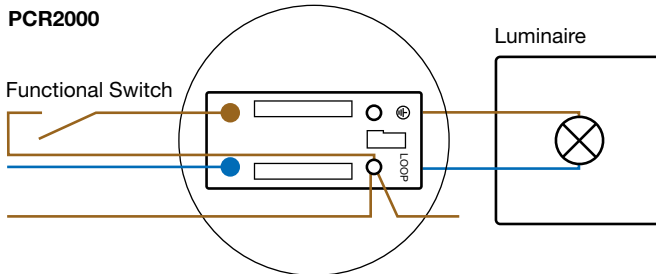3. Pass cable through plug cover centre hole.

4. Terminate conductors into terminals.

5. Push outer sheath of cable firmly into jaws of sheath grip, making sure that at least 2mm of sheath protrudes below the grip.
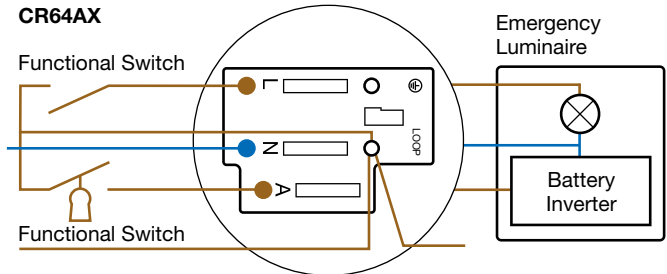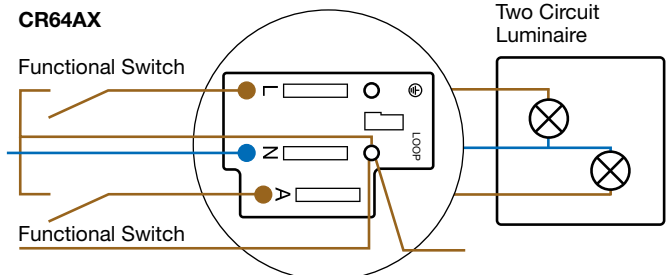
6. Refit cover.

PCR2000

Functional Switch

Luminaire

Note: earth connections omitted for clarity

CR64AX

Functional Switch

Functional Switch

LOOP

Emergency Luminaire

Battery Inverter

CR64AX

Functional Switch

Functional Switch

LOOP

Two Circuit Luminaire

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