DINUY

General Catalogue

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Family owned company founded in 1950 starting to manufacture electrical and electromechanical equipment.

Our commitment to the protection of the environment leads us to develop saving and energy efficiency solutions.

Products such dimmers, movement detectors or timers, contribute to save energy in all type of installations and facilities.

In this new catalogue we include all the new devices covering most of the types of loads including the new LED lamps and strips.

Our developments in the field of the home and building automation are focused mainly in manufacturing devices under the KNX protocol, the worldwide STANDARD for all applications in home and building control. So in this new catalogue we also include a new family of products under this KNX technology.

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dimmers

LED Lamps

LED Strips

1/10V$_{DC}$ Ballasts or LED Drivers

DALI Ballasts or LED Drivers

KNX Control

Constant Light Controls

Compact-Fluorescent Lamps

Halogen and Incandescent Lamps

What can be controlled?

LED lamps.
•Must be dimmable LED lamps:
- 230V~ dimmable LED lamps.
- 12V~ dimmable LED lamps with electronic transformers.

LED strips.
•12-48 VDC one colour or RGB LED strips.

Compact fluorescent lamps (CFL) or Energy Saving Lamps (ESL).
•Must be dimmable CFL lamps.

Fluorescence or LED lighting fixtures.
•Must be connected to a 1/10VDC or DALI ballast or LED Driver.

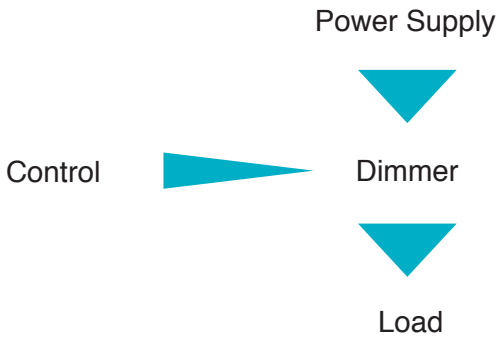
Low voltage halogen lamps.
•Very low voltage, 12~ or 24V~, halogen lamps should be controlled on:
- Ferromagnetic transformers (type L).
- Electronic transformers: leading (L) or trailing (C) edge.

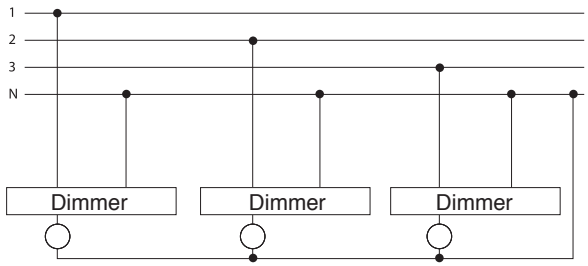
NOTE
When calculating the maximum load capacity of LV halogen lamps transformer power consumption must be taken into consideration. For example, the following could be installed with a dimmer of 400W:
- *7 halogen lamps of 50 watts with electronic transformers.*
- *5 halogen lamps of 50 watts with ferromagnetic transformers.*

Incandescent or 230V~ Halogen lamps.
•All standard incandescent or halogen lamps without restrictions.

How to choose your Dimmer?

This diagram leads us to answer to the following questions





Lamp type and Power rating?
•In order to determine necessary dimmer take inventory of the loads type and power: incandescent, low voltage halogen lamps (LV), 230V halogen lamps, fluorescent lamps, CFLs, LED lamps, etc.
•It is not recommended to install different types of lamps on the same dimmer. This is because neither the thresholds for turning on or turning off the lights nor their brightness variations are the same for different types of loads.
•For the same reasons, fluorescent tubes of different powers should not be grouped on the same dimmer.
•Additionally, when using certain technologies or lamps, specific dimmer models must be used (for example: 1-10VDC fluorescent, low voltage trailing edge electronic transformers, etc...).

Control?
•Wired: depending on the models, the DINUY dimmers can be activated by pushbutton switches, potentiometers, variable voltage supply between 0 and +10VDC or by a programmable system.
•Radio-frequency: the new modular controller for dimmers CO KNX 001 permits remote control via radio-frequency used in together with actuators.
•KNX Controls: The new modular controller for dimmers, CO KNT 001, links our devices with a Twisted-Pair KNX installation.

Power supply?
•The DINUY dimmers must be connected to single phase 230V ~ 50Hz (other voltage and frequency available upon request).
•To be used in a three phase network and to avoid creating imbalances, it is recommended to distribute the load across three phases.

Dimmers

Dimmers range

		REFERENCE	LOAD CAPACITY								CONTROL	MOUNTING
			R	L	C	LED1	LED2	PWM	CFL	1/10V	DALI	
LED LAMPS & STRIPS		RE PLE LE1	-	-	-	100W	6 transfo x 50W	-	-	-	-	Pushbutton	Universal box
		RE KNX LE1	250W	200W	250W	100W	5 transfo x 50W	-	-	-	-	Pushbutton or Wireless (RF-KNX)	Junction box
		RE EL1 LE1	400W	250W	400W	100W	6 transfo x 50W	-	200W	-	-	Pushbutton	DIN-rail
		RE EL5 LE1	-	-	-	1200W	-	-	-	-	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE KNT 000	1000W	800W	1000W	300W	18 transfo x 50W	-	400W	-	-	KNX Bus	DIN-rail
		RE PLA LE2	-	-	-	-	-	8A	-	-	-	Pushbutton	Universal box
		RE EL2 LE2	-	-	-	-	-	20A	-	-	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE KNX LE2	-	-	-	-	-	8A	-	-	-	Pushbutton or Wireless (RF-KNX)	Junction box
		RE KNX LE3	-	-	-	-	-	4A	-	-	-	Wireless (RF-KNX)	Universal box
		RE KNX RGB	-	-	-	-	-	3 x 5A	-	-	-	Wireless (RF-KNX)	Over Ceiling
		RE KNT RGB	-	-	-	-	-	4 x 16A	-	-	-	KNX Bus	DIN-rail
		AM PLA LE2	-	-	-	-	-	8A	-	-	-	-	Universal box
1/10VDC BALLASTS OR LED DRIVERS		RE PLA 010	-	-	-	-	-	-	-	100 ballasts	-	Pushbutton	Junction box
		RE KNX 010	-	-	-	-	-	-	-	100 ballasts	-	Pushbutton or Wireless (RF-KNX)	Junction box
		RE EL5 002	-	-	-	-	-	-	-	200 ballasts	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE KNT 110	-	-	-	-	-	-	-	200 ballasts	-	KNX Bus	DIN-rail
DALI BALLASTS OR LED DRIVERS		RE PLA DA1	-	-	-	-	-	-	-	-	64 ballasts	Pushbutton	Junction box
		RE KNX DA1	-	-	-	-	-	-	-	-	64 ballasts	Pushbutton or Wireless (RF-KNX)	Junction box
		RE EL5 DA1	-	-	-	-	-	-	-	-	64 ballasts	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE KNT DA1	-	-	-	-	-	-	-	-	64 ballasts	KNX Bus	DIN-raiwl
DAYLIGHT CONTROL	With Built-in Brightness sensor	RE DMS 001	-	-	-	-	-	-	-	80 ballasts	-	Light Sensor + Movement Detector	Flush-ceiling
		RE DMS 003	-	-	-	-	-	-	-	2 x 80 ballasts	-	Light Sensor + Movement Detector	Flush-ceiling
		RE DMS 004	-	-	-	-	-	-	-	80 ballasts	-	Light Sensor + Movement Detector	Surface-ceiling
		RE DMS DA1	-	-	-	-	-	-	-	-	64 ballasts	Light Sensor + Movement Detector	Flush-ceiling
		RE DMS DA4	-	-	-	-	-	-	-	-	64 ballasts	Light Sensor + Movement Detector	Surface-ceiling
	With Wireless Brightness sensor	RE KNX 102	-	-	-	-	-	-	-	80 ballasts	-	Daylight Controller	Over Ceiling
		RE KNX DA2	-	-	-	-	-	-	-	-	64 ballasts	Daylight Controller	Over Ceiling
		SE KNX 006	-	-	-	-	-	-	-	-	-	Light Sensor	Portable
		SE KNX 007	-	-	-	-	-	-	-	-	-	Light Sensor	Portable
	Accessories	DM SEN T03	Extra movement sensor for: RE DMS 001, RE MDS DA1, RE DMS 003, RE KNX 102 & RE KNX DA2										Flush-ceiling
		AC DMS 001	Manual control with Pushbutton/Switch for de: RE DMS 001, RE DMS DA1, RE DMS 003, RE KNX 102 & RE KNX DA2										Over Ceiling
		CO REG R05	IR Remote control for: RE DMS 001, RE DMS DA1, RE DMS 003, RE DMS 004 & RE DMS DA4										-
		CO REG R09	RF Remote control for: RE KNX 102 & RE KNX DA2										-
INCANDESCENCE & HALOGEN LAMPS		RE PLE 000	400W	250W	400W	-	-	-	-	-	-	Pushbutton	Universal box
		RE PLA 001	500W	350W	-	-	-	-	-	-	-	Pushbutton	Universal box
		RE EL2 E00	750W	750W	750W	-	-	-	-	-	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE EL5 E00	1.000W	1.000W	1.000W	-	-	-	-	-	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail
		RE EL5 E01	1.000W	1.000W	-	-	-	-	-	-	-	Pushbutton, Potentiometer or 0/10VDC signal	DIN-rail

Wireless & Wired Controls

	REFERENCE	DESCRIPTION	PAGE
WIRELESS CONTROLS (KNX-RF COMPATIBLE)	CO KNX 001	1-channel Wireless interface for modular Dimmers: RE EL1 LE1, RE EL2 LE2, RE EL5 LE1, RE EL5 002, RE EL5 DA1, RE EL2 000, RE EL2 001, RE EL5 000 & RE EL5 001	32
	RC KNX 001	5-channels Remote control. Compatible with: CO KNX 001, RE KNX LE1, RE KNX LE2, RE KNX LE3, RE KNX RGB, RE KNX 010 & RE KNX DA1	32
	EM KNX 002	1-channel Pushbutton Interface. Compatible with: CO KNX 001, RE KNX LE1, RE KNX LE2, RE KNX LE3, RE KNX RGB, RE KNX 010 & RE KNX DA1	32
	PU KNX 001	1-channel portable Pushbutton. Compatible with: CO KNX 001, RE KNX LE1, RE KNX LE2, RE KNX LE3, RE KNX RGB, RE KNX 010 & RE KNX DA1	33
	CO KNX 004	USB / RF Stick & Control Software	33
	AM KNX 001	RF-KNX signal Repeater	33
WIRED CONTROLS (KNX-Bus)	EM KNT 001	4-channels Pushbutton Interface	34
	EM KNT 002	4-channels Analog/Digital Interface	34
	CO KNT 001	1-channel interface for modular Dimmers: RE EL1 LE1, RE EL2 LE2, RE EL5 LE1, RE EL5 002, RE EL5 DA1, RE EL2 000, RE EL2 001, RE EL5 000 & RE EL5 001	34
	CO KNX 002	RF-KNX / KNX-Bus Media Coupler	35

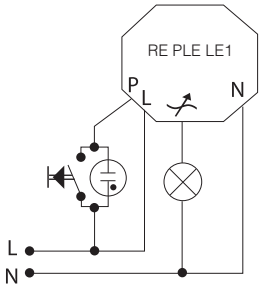
Load type and their symbols

LOAD	TYPE
230V~ Dimmable LED lamps (leading edge)	LED1
12V~ Dimmable LED lamps (trailing edge) 230V~ Dimmable LED lamps (trailing edge)	LED2
LED strips	PWM
Dimmable Compact Fluorescent lamps	CFL
Incandescent & 230V Halogen lamps	R
LV Halogen lamps with Electromagnetic transformer	L
LV Halogen lamps with Electronic transformer (leading edge)	L
LV Halogen lamps with Electronic transformer (trailing edge)	C
1/10V$_{DC}$ Ballast or LED Driver	1/10V
DALI Ballast or LED Driver	DALI

RE PLE LE1

- Very small size Universal switch box mounting Dimmer for LED lamps.
- IGBT technology: leading or trailing edge dimming, depending on the load. It must be selected by using the selector knob (LED1/LED2).
- Pushbutton control: brief press -> ON/OFF, Sustained press -> Dimming Up/Down
- The minimum brightness level can be adjusted by using the selector knob. It avoids flickers or malfunctions in the lamps.
- Memory function: by a brief press, the lamps can be switched on at previous level (memory) or at maximum (no memory).
- Protected against overloading, short circuits and overheating.
- Valid for different LED lamps:
  · LED1: Dimmable 230V LED lamps (leading edge)
  · LED2: Dimmable 230V LED lamps (trailing edge)
  Dimmable 12V LED lamps with electronic transformer (trailing edge)

Wiring Diagram



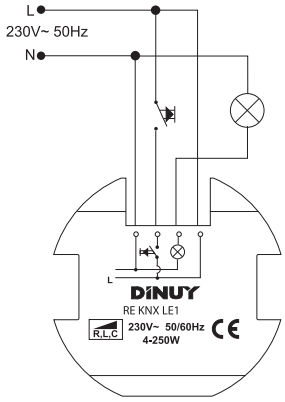
Technical Specifications

REFERENCE		RE PLE LE1
Power supply		230V-50Hz
Consumption		2VA
Load	230V dimmable LED	4W ~ 100W
	12V dimmable LED	1lamp/transf & max. 6 transfo (50W)
Control		Pushbutton. Up to 3 lighted pushbuttons
Dimensions		45 x 45 x 12mm
Working temperature		0ºC ~ +40ºC
Protection degree		IP20 according to EN20324
In accordance with Standard		EN60669-2-1

RE KNX LE1

- Junction box mounting Dimmer for LED lamps, incandescent or halogen lamps.
- IGBT technology: leading or trailing edge dimming, depending on the load. It must be selected by using the selector knob.
- Pushbutton or Wireless (RF-KNX) control:
  • Wired Pushbutton
  • Remote control: RC KNX 001
  • Transmitters: EM KNX 002 or PU KNX 001
  • Any other RF-KNX compatible transmitter
- The minimum brightness level can be adjusted by using the selector knob. It avoids flickers or malfunctions in the lamps.
- Memory function: by a brief press, the lamps can be switched on at previous level before being switched-off (memory) or at maximum (no memory).
- Wireless Master/Slave configuration: it is possible to enlarge the load capacity controlled by one wired pushbutton by using several dimmers.
- Protected against overloading, short circuits and overheating.

Wiring Diagram



Technical Specifications

REFERENCE		RE KNX LE1
Rated voltage		230V~ 50/60 Hz
Load	Incandescent or 230V halogen lamps	250W
	LV halogen lamps with electronic transformer	250W
	LV halogen lamps with inductive transformer	200W
	230V~ LED lamps	4W ~ 100W
	12V~ dimmable LED lamps (electronic transformer)	Up to 5 electronic transformers (50W) & 1lamp/transfo
Control		Wireless or/and wired pushbutton
Radiofrequency		868,4MHz
Compatible with		KNX-RF
Range		Up to 100m
Dimensions		55 x 53 x 34mm
Operating temperature		0ºC ~ 40ºC
Protection degree		IP20 according to EN60529
In accordance with Standard		EN60669-2-1

RE EL1 LE1

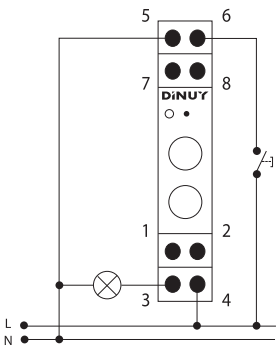
- DIN-rail mounting Dimmer for LED lamps, incandescent or halogen lamps.
- IGBT technology: leading or trailing edge dimming, depending on the load. It must be selected by using the selector knob.
- Pushbutton control:
  - Brief press › ON/OFF.
  - Sustained press › Dimming Up/Down.
- The minimum brightness level can be adjusted by using the selector knob. It avoids flickers or malfunctions in the lamps.
- Memory function: by a brief press, the lamps can be switched on at previous level before being switched-off (memory) or at maximum (no memory).
- Master/Slave configuration: it allows to increase the load capacity, controlled by only one pushbutton, by using several dimmers linked between them.
- Protected against overloading, short circuits and overheating.
- Valid for different LED lamps: Dimmable 230V LED lamps, Dimmable 12V LED lamps with electronic transformer, incandescent, halogen or compact-fluorescent lamps.

Technical Specifications

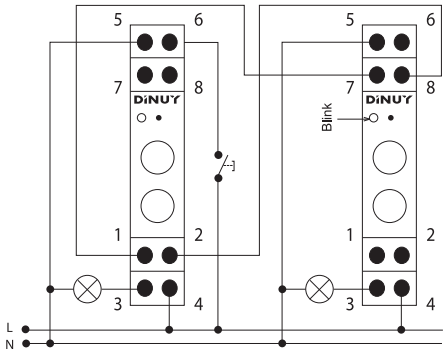
REFERENCE		RE EL1 LE1
Power supply		230V-50Hz
Consumption		3VA
Load	LED1: 230V dimmable LED lamps	4W ~ 100W
	LED2: 12V dimmable LED lamps	1 lamp/transfo & max. 6 transformers (50W)
	Incandescent & 230V Halogens	400W
	LV Halogens Electronic transformer	400W
	LV Halogens Electromagnetic transformer	250W
	Dimmable CFL	20W - 200W
Control		Pushbutton. Up to 3 lighted pushbuttons
Dimensions		One module (17,5mm width)
Weight		140g
Working temperature		0ºC ~ +40ºC
Storage temperature		-30ºC ~ +70ºC
Protection degree		IP20 according to EN20324
In accordance with Standard		EN60669-2-1

Wiring Diagram

Installation with a Pushbutton



Master/Slave installation



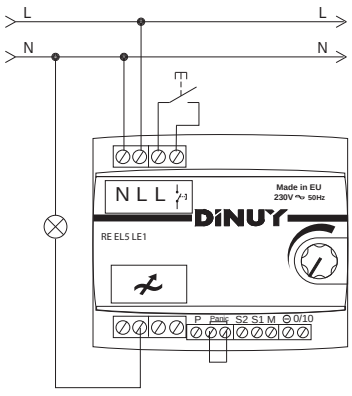
RE EL5 LE1

- DIN-rail mounting Dimmer for high capacity LED installations.
- TRIAC technology: leading edge dimming. Valid for 230V LED lamps.
- Control:
  - Pushbutton:
    - With Memory: the lamps are switched on at the previous level before being switched-off.
    - Without Memory: the lamps are switched on at maximum level.
    - Auto: the lamps are switched on at the previous level before being switched-off and the dimmer recovers the same situation if there is a cut-off of the mains.
  - Potentiometer, external or built-in one.
  - 0/10VDC signal.
- The minimum brightness level can be adjusted by using the selector knob. It avoids flickers or malfunctions in the lamps.
- Master/Slave configuration: it allows to increase the load capacity, controlled by only one pushbutton, by using several dimmers linked between them.
- Protected against overloading, short circuits and overheating.
- Anti-panic input for safety systems: in case of emergency, the lamps can be switched-on at maximum level without taking into account the control.

Technical Specifications

REFERENCE	RE EL5 LE1
Rated voltage	230V~ 50Hz
Consumption	3W
Load type	Dimmable 230V~ LED lamps (leading-edge)
Load capacity	1.200W
Dimming margin	1% ~ 100%
Output channels	1
Control	Pushbutton, Potentiometer or 0/10VDC Signal
External control Potentiometer value	10KΩ
Dimensions	5 modules wide (87,5mm)
Weight	420g
Operating temperature	0ºC ~ 40ºC
Protection degree	IP20 according to EN60529
Connection terminals	Wires of up to 6mm²
In accordance with Standard	EN60669-2-1

Wiring Diagram



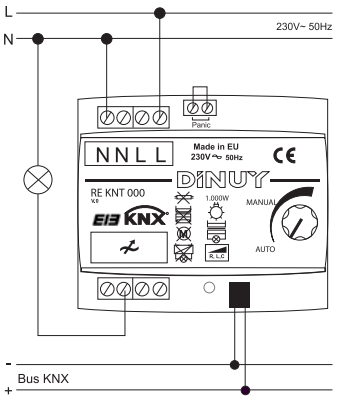
RE KNT 000

- DIN-rail mounting KNX Universal Dimmer.
- Admits any type of load (leading or trailing edge):
  - Incandescent or 230V Halogen lamps
  - LV Halogen lamps with Transformer
  - Compact-Fluorescent lamps
  - 230V LED lamps
  - 12V LED lamps (with Electronic transformer)
- One output channel.
- Protected against overloads, short-circuit or overheating.
- Built-in Potentiometer which allows testing the load without the KNX Bus.

Technical Specifications

REFERENCE		RE KNT 000
Power supply		230V~ 50Hz
Insulation Voltage		4kVAC (mains/bus)
Load	Incandescence & 230V Halogens	100 ~ 1.000W
	LV Halogens	100 ~ 800W
	230V LED lamps	7 ~ 300W
	LV LED lamps (electronic transfo)	18 transfo x 50W & 1lamp/transfo
	Compact-Fluorescent lamps	20 ~ 400W
Supply from the Bus		24VDC ~5mA
KNX Medium		TP1
Output channels		1
Dimensions		5 modules
Weight		260g
Working temperature		0ºC ~ +40ºC
Protection degree		IP20
According to the Standard		Safety Directive 73/23/EEC EMC 204/108/EC KNX Standard 2.0 EN60669-1, 2-1 & 2-3

Wiring Diagram



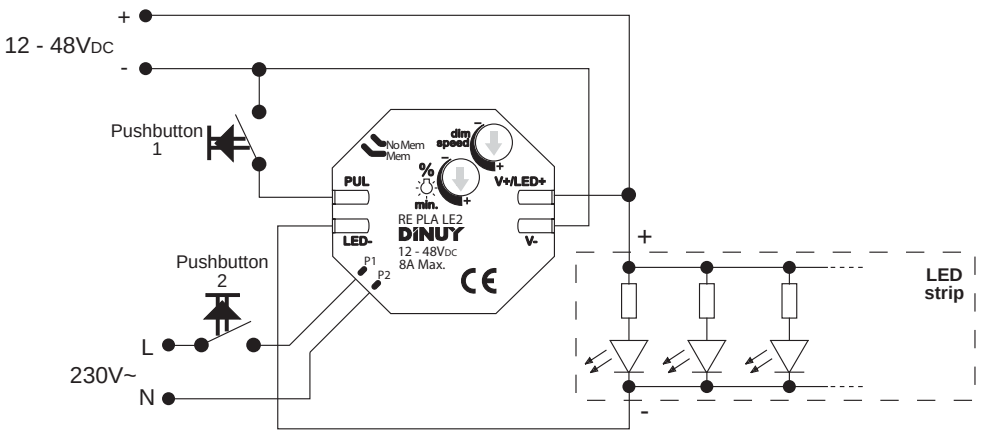
RE PLA LE2

- Dimmer for 12VDC ~ 48VDC LED strips.
- Pulse Width Modulation (PWM) dimming technology.
- Extra-thin dimmer, only 12mm width, for installing into universal boxes, behind the pushbutton.
- Control by pushbutton:
  - With Memory: the lamps are switched on at the previous level before being switched-off.
  - Without Memory: the lamps are switched on at maximum level.
- It is possible to use one or several buttons 0V-related or/and one or several buttons 230V-related.
- Two built-in control knobs:
  - Minimum dimming value.
  - Dimming speed.
- Protected against overloads and short-circuits.

Technical Specifications

REFERENCE	RE PLA LE2
Rated voltage	12VDC ~ 48VDC
Consumption	<12mA
Load type	One color LED strips
Load capacity	8A
Minimum level	1% ~ 60%
Dimming speed	0% --> 100%: 3sec ~ 10sec
Control	Pushbutton
Dimensions	45 x 45 x 12mm
Weight	23g
Operating temperature	0ºC ~ 40ºC
Protection degree	IP20 according to EN60529
In accordance with Standard	EN60669-2-1

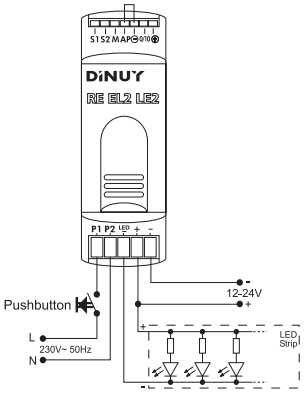
Wiring Diagram



RE EL2 LE2

- 1-channel modular dimmer for 12~24VDC LED Strips, up to a maximum of 20A
- Pulse Width Modulation (PWM) dimming technology
- DIN-rail mounting. 2-modules wide
- Control modes: Pushbutton, Potentiometer or 0/10V Signal
- Resettable protection against overloads, short-circuits and over-heating
- Different working modes using pushbutton: Memory, No Memory and Auto
- Master/Slave configuration: allows to increase the load capacity

Wiring Diagram



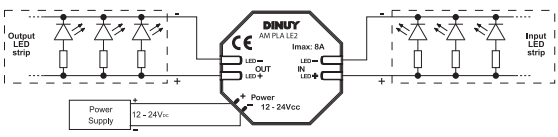
Technical Specifications

REFERENCE	RE EL2 LE2
Power supply	12-24VDC
Consumption	<12mA
Load	LED Strips 12-24VDC
Maximum load	20A
Control	Pushbutton, Potentiometer or 0/10V Signal
Dimensions	2 modules wide (35mm)
Weight	140g
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

AM PLA LE2

- 1-channel amplifier for 12~24VDC LED Strips, up to a maximum of 8A
- Pulse Width Modulation (PWM) amplifying technology
- It allows to increase the meters of LED strips using an only dimmer
- Resettable protection against overloads and short-circuits

Wiring Diagram



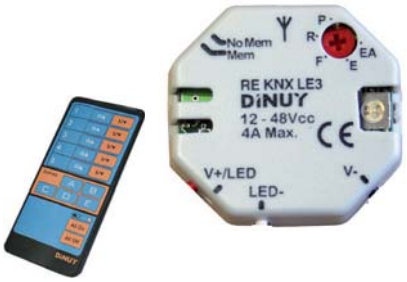
Technical Specifications

REFERENCE	AM PLA LE2
Power supply	12-24VDC
Consumption	<12mA
Load	LED Strips 12-24VDC
Maximum load	8A
Dimensions	2 modules wide (35mm)
Weight	45 x 45 x 12mm
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

RE KNX LE2

- Dimmer for 12VDC ~ 48VDC LED strips.
- Pulse Width Modulation (PWM) dimming technology.
- Control:
  - Pushbutton (wired):
    - With Memory: the lamps are switched on at the previous level before being switched-off.
    - Without Memory: the lamps are switched on at maximum level.
  - Wireless (KNX-RF):
    - Remote control: RC KNX 001.
    - Transmitter for pushbutton: EM KNX 002.
    - Any other compatible KNX-RF transmitter.
- Installation into junction box.
- Wireless Master/Slave configuration: it is possible to enlarge the load capacity with one wired pushbutton and several dimmers RE KNX LE2.
- Protected against overloads and short-circuits.

RE KNX LE3



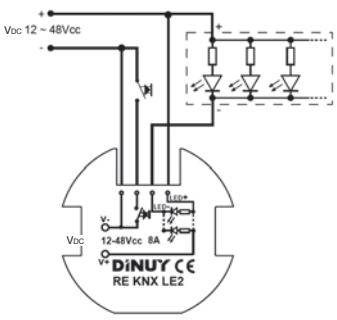
- Dimmer for 12VDC ~ 48VDC LED strips.
- Pulse Width Modulation (PWM) dimming technology.
- Control:
  - Wireless (KNX-RF):
    - Remote control: RC KNX 001.
    - Transmitter for pushbutton: EM KNX 002.
    - Any other compatible KNX-RF transmitter.
- Installation into universal box.
- Protected against overloads and short-circuits.

Technical Specifications

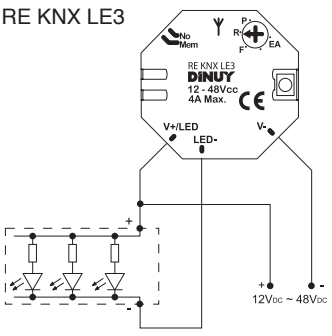
REFERENCE	RE KNX LE2	RE KNX LE3
Rated voltage	12VDC ~ 48VDC	
Consumption	<12mA	
Load type	One color LED strips	
Load capacity	8A	4A
Output channels	1 Channel	
Control	Wireless or/and wired pushbutton	Wireless
Radiofrequency	868,4MHz	
Compatible with	KNX-RF	
Range	Up to 100m	
Dimensions	55 x 53 x 34mm	45 x 45 x 12mm
Operating temperature	0ºC ~ 40ºC	
Protection degree	IP20 according to EN60529	
In accordance with Standard	EN60669-2-1	

Wiring Diagrams

RE KNX LE2



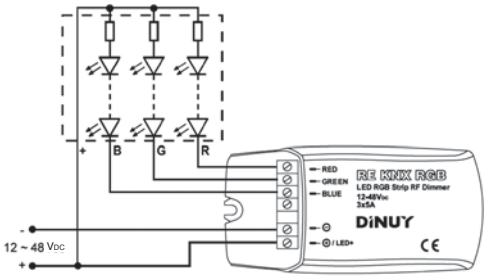
RE KNX LE3



RE KNX RGB

- Dimmer for 12VDC ~ 48VDC RGB LED strips.
- Pulse Width Modulation (PWM) dimming technology.
- 3 Output channels: R, G & B.
- 4 Working channels: R, G, B & RGB.
- Wireless control (compatible with KNX-RF).
- Protected against overloads and short-circuits.

Wiring Diagram



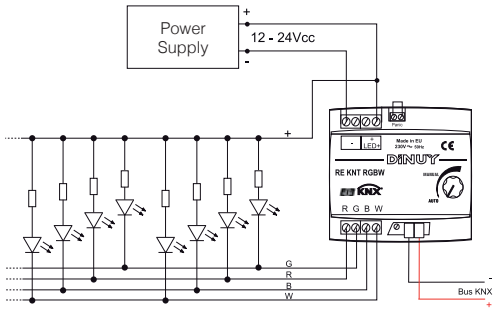
Technical Specifications

REFERENCE	RE KNX RGB
Rated voltage	12VDC ~ 48VDC
Consumption	<12mA
Load type	One color LED strips
Load capacity	5A per channel
Output channels	3 (R, G & B)
Working channels	4 (R, G, B & RGB)
Control	Wireless
Radiofrequency	868,4MHz
Compatible with	KNX-RF
Range	Up to 100m
Operating temperature	0ºC ~ 40ºC
Protection degree	IP20 according to EN60529
In accordance with Standard	EN60669-2-1

RE KNT RGB

- DIN-rail mounting KNX RGBW Dimmer.
- 4 output channels (RGBW) with 16A per channel and 32A maximum.
- Protected against overload, short-circuits and overheating.
- Modular housing for DIN rail mounting.
- Supplied by 12V or 24V.

Wiring Diagram



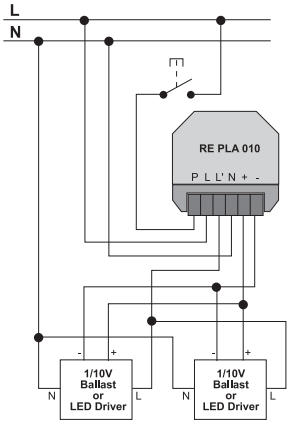
Technical Specifications

REFERENCE	RE KNT RGB
Power supply	12VDC ~ 24VDC
Load type	RGBW LED Strips
Supply from the Bus	21VDC ~ 32VDC
KNX Medium	TP1
Output	4channels x 16A (up to 32A)
Dimensions	5 modules
Weight	260g
Working temperature	0ºC ~ +40ºC
Protection degree	IP20
According to the Standard	Safety Directive 73/23/EEC EMC 204/108/EC KNX Standard 2.0 EN60669-1, 2-1 & 2-3

RE PLA 010

- Small dimmer for 1/10VDC Ballast or LED Driver, for example, Fluorescence or LED lighting fixtures
- Can control up to a maximum of 100 equipments
- Junction-box mounting
- Control by Pushbutton, with or without Memory
- Resettable protection against overloads, short-circuits and over-heating
- Built-in selector switch which allows to set the minimum dimming level

Wiring Diagram



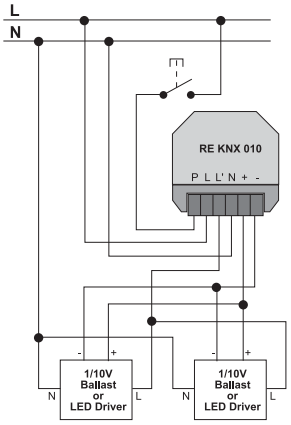
Technical Specifications

REFERENCE	RE PLA 010
Power supply	230V~ 50Hz
Consumption	2,7W
Load	1/10V Ballast or LED Driver
Maximum load	100 Ballast or LED Driver
Maximum Input Current 1/10V	250mA
Maximum Output Current 1/10V	50mA
Control	Pushbutton
Dimensions	55 x 53 x 34mm
Weight	80g
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

RE KNX 010

- Wireless dimmer for 1/10VDC Ballast or LED Driver, for example, Fluorescence or LED lighting fixtures
- Can control up to a maximum of 100 equipments
- Junction-box mounting
- Control by RF-KNX transmitter (remote control, pushbutton,…) or wired Pushbutton
- Resettable protection against overloads, short-circuits and over-heating
- Built-in selector switch which allows to set the minimum dimming level

Wiring Diagram



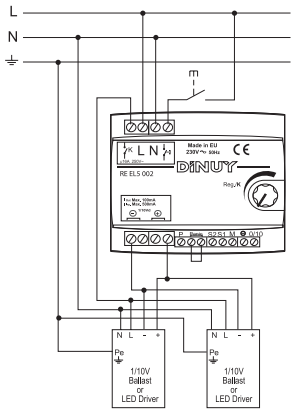
Technical Specifications

REFERENCE	RE KNX 010
Power supply	230V~ 50Hz
Consumption	2,7W
Load	1/10V Ballast or LED Driver
Maximum load	100 Ballast or LED Driver
Maximum Input Current 1/10V	250mA
Maximum Output Current 1/10V	50mA
Control	Wireless (RF-KNX) or wired Pushbutton
Dimensions	55 x 53 x 34mm
Weight	80g
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

RE EL5 002

- Dimmer for 1/10VDC Ballast or LED Driver.
- Control:
  - Pushbutton:
    - With Memory: the lamps are switched on at the previous level before being switched-off.
    - Without Memory: the lamps are switched on at maximum level.
    - Auto: the lamps are switched on at the previous level before being switched-off and the dimmer recovers the same situation if there is a cut-off of the mains.
  - Potentiometer, external or built-in one.
  - 0/10VDC signal.
- Modular housing, with a width of 5 modules (87,5mm). Mounting in DIN rail.
- Anti-panic input for safety systems: in case of emergency the lamps can be switched on at maximum level without taking into account the dimming control.
- Master/Slave configuration, allowing increasing the load capacity from only one control, dividing the load in different dimmers.

Wiring Diagrams



If the current rating is higher than 16A, a contactor must be incorporated into the K output.

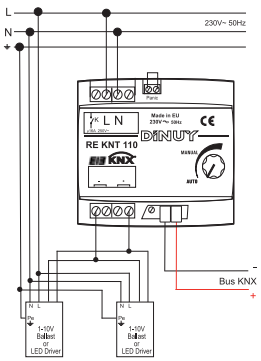
Technical Specifications

REFERENCE	RE EL5 002
Power supply	230V~ 50Hz
Consumption	2,7W cosφ= 0,73
Load type	1/10VDC Ballast or LED Driver
Maximum numbert of ballasts	200 Ballast or LED Driver
Switching capacity	250V / 16A
Control	Pushbutton, Potentiometer or 0/10VDC signal
Value of control potentiometer	10KΩ
Dimensions	Five modules (87,5mm)
Weight	420g
Operating temperature	0ºC ~ +40ºC
Protection degree	IP 20 according to EN 60529
Connection terminals	Accept wires of up to 6 mm² cross section
According to the Standard	EN 60669-2-1

RE KNT 110

- DIN-rail mounting KNX 1/10VDC Dimmer.
- Valid for Fluorescence or LED lighting fixtures with 1/10VDC Ballast or LED Driver.
- One output channel.
- Up to 200 ballasts can be connected.
- Protected against overloads, short-circuit or overheating.
- Built-in Potentiometer which allows testing the load without the KNX Bus.

Wiring Diagram



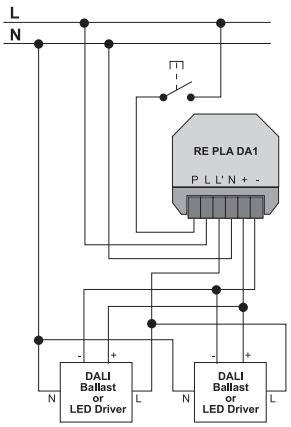
Technical Specifications

REFERENCE	RE KNT 010
Power supply	230V~ 50Hz
Insulation Voltage	4kVAC (mains/bus)
Load type	1/10VDC Ballast or LED Driver
Maximum load	Up to 200 Ballast or LED Driver
Supply from the Bus	24VDC ~5mA
KNX Medium	TP1
Output channels	1
Dimensions	5 modules
Weight	260g
Working temperature	0ºC ~ +40ºC
Protection degree	IP20
According to the Standard	Safety Directive 73/23/EEC EMC 204/108/EC KNX Standard 2.0 EN60669-1, 2-1 & 2-3

RE PLA DA1

- Small dimmer for DALI Ballast or LED Driver, for example, Fluorescence or LED lighting fixtures
- Can control up to a maximum of 64 equipments
- Junction-box mounting
- Control by Pushbutton, with or without Memory
- Resettable protection against overloads, short-circuits and over-heating
- Built-in selector switch which allows to set the minimum dimming level

Wiring Diagram



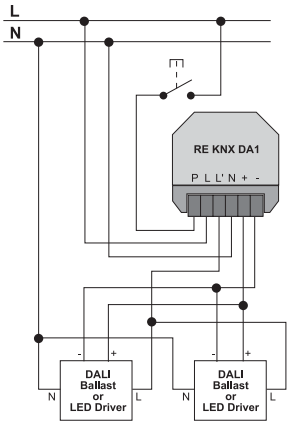
Technical Specifications

REFERENCE	RE PLA DA1
Power supply	230V~ 50Hz
Consumption	3W
Load	DALI Ballast or LED Driver
Maximum load	64 Ballast or LED Driver
Control	Pushbutton
Dimensions	55 x 53 x 34mm
Weight	80g
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

RE KNX DA1

- Wireless dimmer for DALI Ballast or LED Driver, for example, Fluorescence or LED lighting fixtures
- Can control up to a maximum of 64 equipments
- Junction-box mounting
- Control by a Wireless RF-KNX transmitter (remote control, pushbutton,…) or wired Pushbutton
- Resettable protection against overloads, short-circuits and over-heating
- Built-in selector switch which allows to set the minimum dimming level

Wiring Diagram



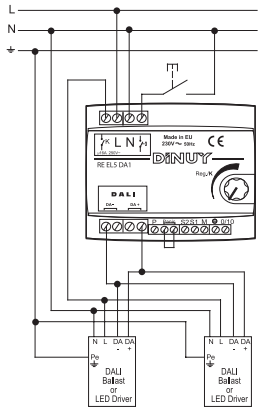
Technical Specifications

REFERENCE	RE KNX DA1
Power supply	230V~ 50Hz
Consumption	3W
Load	DALI Ballast or LED Driver
Maximum load	64 Ballast or LED Driver
Control	Wireless (RF-KNX) or wired Pushbutton
Dimensions	55 x 53 x 34mm
Weight	80g
Working temperature	0° ~ +40°C
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1
Protection degree	IP20 according to EN60529
According to the Standard	EN 60669-2-1

RE EL5 DA1

- Dimmer for DALI Ballast or LED Driver.
- Uni-directional and Broadcasting communication (only 1 group). It is not addressable.
- Control:
  - Pushbutton:
    - With Memory: the lamps are switched on at the previous level before being switched-off.
    - Without Memory: the lamps are switched on at maximum level.
    - Auto: the lamps are switched on at the previous level before being switched-off and the dimmer recovers the same situation if there is a cut-off of the mains.
  - Potentiometer, external or built-in one.
  - 0/10Vdc signal.
- Modular housing, with a width of 5 modules (87,5mm). Mounting in DIN rail.
- Anti-panic input for safety systems: in case of emergency the lamps can be switched on at maximum level without taking into account the dimming control.
- Master/Slave configuration, allowing increasing the load capacity from only one control, dividing the load in different dimmers.

Wiring Diagram



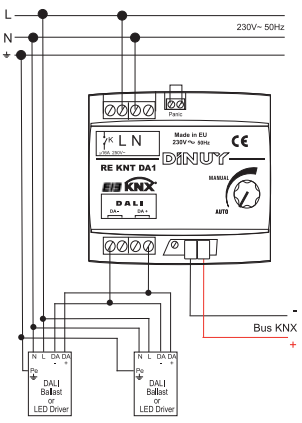
Technical Specifications

REFERENCE	RE EL5 DA1
Power supply	230V~ 50Hz
Consumption	3W
Load type	DALI Ballast or LED Driver
Maximum numbert of ballasts	64
Switching capacity	250V / 16A
Control	Pushbutton, Potentiometer or 0/10VDC signal
Value of control potentiometer	10KΩ
Dimensions	Five modules (87,5mm)
Weight	420g
Operating temperature	0ºC ~ +40ºC
Protection degree	IP 20 according to EN 60529
Connection terminals	Accept wires of up to 6 mm² cross section
According to the Standard	EN 60669-2-1

RE KNT DA1

- DIN-rail mounting KNX DALI Dimmer.
- Valid for Fluorescence or LED lighting fixtures with DALI Ballast or LED Driver..
- One output channel.
- Communication Unidirectional (no information about the tubes) and Broadcasting (only 1 group)
- Up to 64 ballasts can be connected.
- Protected against overloads, short-circuit or overheating.
- Built-in Potentiometer which allows testing the load without the KNX Bus.

Wiring Diagram



Technical Specifications

REFERENCE	RE KNT DA1
Power supply	230V~ 50Hz
Load	Up to 64 DALI Ballast or LED Driver
DALI signal	16V synchronized (Manchester code)
Supply from the Bus	21 ~32VDC
KNX Medium	TP1
Output channels	1
Dimensions	5 modules
Weight	260g
Working temperature	0ºC ~ +40ºC
Protection degree	IP20
According to the Standard	Safety Directive 73/23/EEC EMC 204/108/EC EN 60669-2-1 KNX Standard 2.0 EN60669-1, 2-1 & 2-3

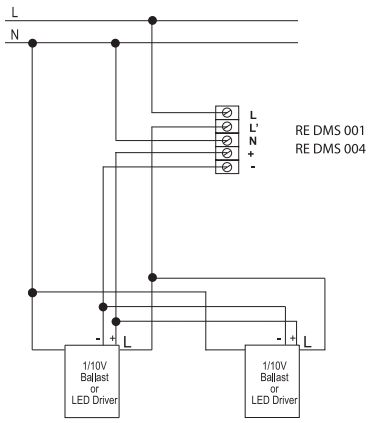
RE DMS 001, RE DMS 003 & RE DMS 004: Constant light control for 1/10V Ballast or LED Driver

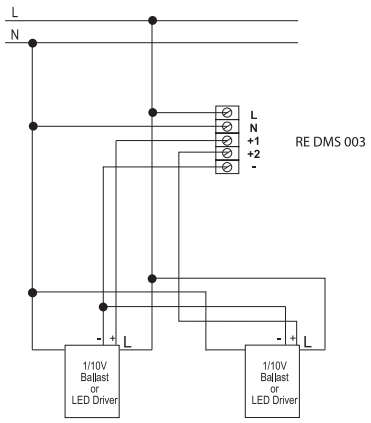
- The user selects the desired brightness level and the system dims the lamps in order to maintain it. If the measured level is higher than the selected, the light level of the lamps will be decreased until they are off if the daylight is enough. If the daylight level is lower than the selected one, the brightness level of the lamps will be increased.
- The system can work with or without motion detection function. If motion is detected, the system will be on and it will continue working until the delay time elapses. If motion detection function is not selected, the system will always work whenever it is supplied from the mains.
- The system is comprised of two devices:
  - Sensor: flush ceiling mounting. It incorporates a light and a motion sensor. The device is connected to the control via a RJ11 jack.
  - Control: with a 1/10VDC output. Incorporates a relay to disconnect physically the ballasts in case that they are regulated to the minimum lighting level.
- It is possible to increase the number of motion detectors in order to enlarge the coverage area (DM SEN T03).

Technical Specifications

REFERENCE	RE DMS 001	RE DMS 003	RE DMS 004
Power supply	230V~ 50Hz		
Load type	1/10VDC ballasts or LED Drivers		
Maximum Load	80 ballasts or LED Drivers	2 x 80 ballasts or LED Drivers	80 ballasts or LED Drivers
Channels	1	2	1
Breaking capacity	16A / 250V	-	16A / 250V
Output current by 1/10V output	40mA		
Input current by 1/10V output	100mA		
Mounting	Flush-ceiling	Flush-ceiling	Surface-ceiling
Extra Motion Detectors	Up to 15 x DM SEN T03	Up to 15 x DM SEN T03	-
Motion Detection Area	Ø7m at 2,5m high		
Lux setting	100 ~ 1000Lux		
Time delay setting	10min ~ 30min		
Working temperature	0ºC ~ +40ºC		
Protection degree	IP20		

Wiring Diagram

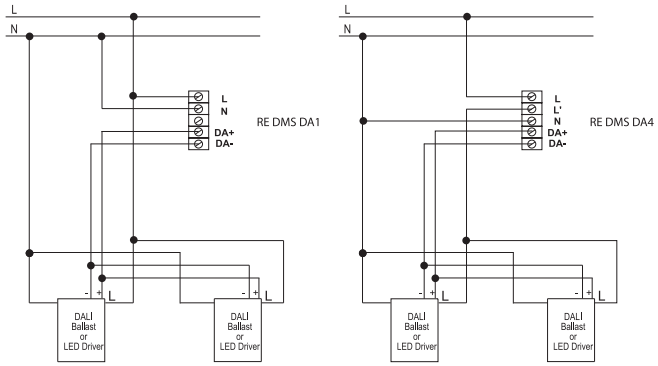




RE DMS DA1& RE DMS DA4: Constant light control for DALI Ballast or LED Driver

- The user selects the desired brightness level and the system dims the lamps in order to maintain it. If the measured level is higher than the selected, the light level of the lamps will be decreased until they are off if the daylight is enough. If the daylight level is lower than the selected one, the brightness level of the lamps will be increased.
- The system can work with or without motion detection function. If motion is detected, the system will be on and it will continue working until the delay time elapses. If motion detection function is not selected, the system will always work whenever it is supplied from the mains.
- The system is comprised of two devices:
  - Sensor: flush ceiling mounting. It incorporates a light and a motion sensor. The device is connected to the control via a RJ11 jack.
  - Control: with a DALI output. Incorporates a relay to disconnect physically the ballasts in case that they are regulated to the minimum lighting level.
- It is possible to increase the number of motion detectors in order to enlarge the coverage area (DM SEN T03).
- It can be manually controlled by a pushbutton or switch through the accessory AC DMS 001. It allows switching On/Off and dimming the lamps.

Wiring Diagram



Technical Specifications

REFERENCE	RE DMS DA1	RE DMS DA4
Power supply	230V~ 50Hz	
Load type	DALI Ballast or LED Driver	
Maximum Load	80 Ballast or LED Driver	
Channels	1	
Breaking capacity	-	16A / 250V
Communication	Unidirectional and Broadcasting	
Mounting	Flush-ceiling	Flush-ceiling
Extra Motion Detectors	Up to 15 x DM SEN T03	-
Motion Detection Area	Ø7m at 2,5m high	
Lux setting	100 ~ 1000Lux	
Time delay setting	10min ~ 30min	
Working temperature	0°C ~ +40°C	
Protection degree	IP20	

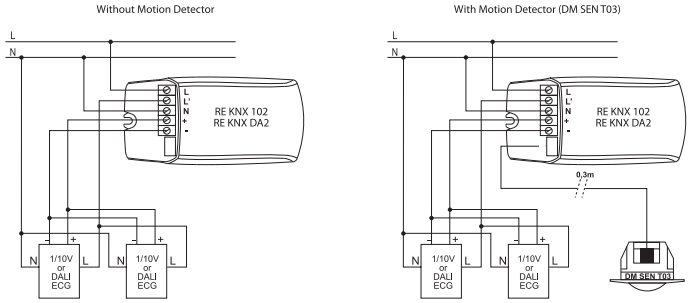
CO REG R05

- IR remote control for: RE DMS 001, RE DMS 003, RE DMS 004, RE DMS DA1 and RE DMS DA4.
- Two working modes:
  - Manual: switch On/Off and Dimming.
  - Automatic: Adjusts the desired brightness level

RE KNX 102 & RE KNX DA2

- The user selects the desired brightness level and the system dims the lighting in order to maintain it. If the measured level is higher than the selected one, the light level from the lamps will be de-creased until they are switched off if the daylight is enough. If the daylight is lower than the selected one, the brightness level of the lamps will be increased.
- The great advantage of this device is that the light sensor is wireless (SE KNX 006, SE KNX 007 or via KNX Bus using the CO KNX 002), so it can be fixed on the site (desktop) where is desired to be measured the brightness. This allows optimal results.
- The brightness threshold can be set by wireless sensor (SE KNX 007), remote control (CO REG R09) or by the KNX Bus using the CO KNX 002.
- The system can work with or without motion detection function (wired: DM SEN T03 / wireless: DM KNX 001 or DM KNX 002). As soon as any movement is detected, the lighting fixtures will be on if the daylight is under the set one. As soon as the time delay from the motion detection function elapses the lamps will be off.

Wiring Diagram



Technical Specifications

REFERENCE	RE KNX 102	RE KNX DA2
Power supply	230V~ 50Hz	
Load type	1/10V$_{DC}$ Ballast or LED Driver	DALI Ballast or LED Driver
Maximum Load	80 Ballast or LED Driver	64 Ballast or LED Driver
Channels	1	
Mounting	Flush-ceiling	
Extra Motion Detectors	Up to 15 x DM SEN T03	
Motion Detection Area	Ø7m at 2,5m high	
Lux setting	100 ~ 1000Lux	
Protection degree	IP20	

SE KNX 006 & SE KNX 007

SE KNX 006 SE KNX 007

- RF-KNX Brightness sensor for daylight control (with RE KNX 102 or RE KNX DA2)
- Its utility is to send the existing Lux value to the receiver
- Battery-operated, with a useful life higher than 8 years
- The SE KNX 007 can also control manually the lighting

CO REG R09

- RF Remote control for daylight control actuators (RE KNX 102 or RE KNX DA2)
- Its utility is to fix the desired Lux level on the desktop.

RE PLE 000

- Leading and trailing edge dimmer for Incandescent and Halogen lamps (R, L, C):
  - Incandescent and 230V Halogen lamps.
  - LV Halogen lamps with ferromagnetic transformer.
  - LV Halogen lamps with electronic transformer (L or C).
- Protected against overloading, short circuits and overheating.
- Admits up to 3 lighted pushbuttons.

RE PLA 001

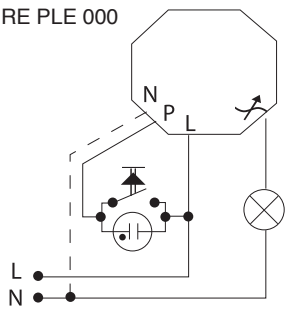
- Leading edge dimmer for Incandescent and Halogen lamps (R, L):
  - Incandescent and 230V Halogen lamps.
  - LV Halogen lamps with ferromagnetic transformer.
  - LV Halogen lamps with electronic transformer (L).
- Protected against overheating.
- Admits up to 3 lighted pushbuttons.

Technical Specifications

REFERENCE		RE PLE 000	RE PLA 001
Power supply		230V-50Hz	
Consumption		3VA	
Load	Incandescent & 230V Halogens	15W - 400W	40W - 500W
	LV Halogens Electronic transformer (L type)	20W - 250W	40W - 350W
	LV Halogens Electronic transformer (C type)	20W - 250W	-
	LV Halogens Electromagnetic transformer	15W - 400W	40W - 500W
Control		Up to 3 lighted pushbuttons	
Dimensions		45 x 45 x 12mm	40 x 50,5 x 15,5mm
Weight		23g	40g
Working temperature		0ºC ~ +40ºC	
Storage temperature		-30ºC ~ +70ºC	
Protection degree		IP20 according to EN20324	
In accordance with Standard		EN60669-2-1	

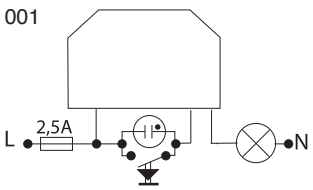
Wiring Diagrams

RE PLE 000



N-wire necessary for very inductive loads (toroidals)

RE PLA 001



RE EL2 E00

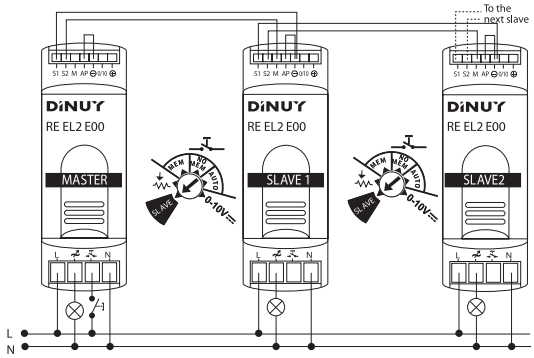
- Leading and trailing edge dimmer, depending on the load (R, L, C):
  - Incandescent and 230V~ Halogen lamps.
  - LV Halogen lamps with electromagnetic transformer.
  - LV Halogen lamps with electronic transformer (L or C).
- Mounting in DIN 46277 rail.
- Manufactured according to the EN 60669-2-1 standard.
- Controls:
  - Pushbutton with or without Memory.
  - Potentiometer.
  - 0/10V$_{DC}$ signal.
- Protected against overload, short-circuit and overheat.
- Anti-panic input for safety systems.
- Master/Slave configuration; allowing to increase the load, distributing it in different dimmers with a single control.

Technical Specifications

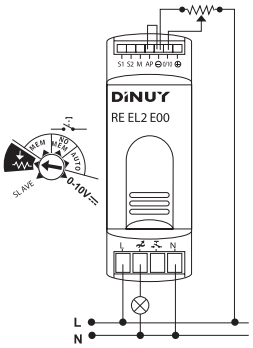
REFERENCE		RE EL2 E00
Power supply		230V-50Hz
Consumption		2,5VA
Load	Incandescent & 230V Halogens	25W - 750W
	LV Halogens Electronic transformer	35W - 750W
	LV Halogens Electromagnetic transformer	20W - 750W
Control		Pushbutton (non-lighted), Potentiometer or 0/10V$_{DC}$ Signal
Dimensions		Two modules (35mm width)
Weight		140g
Working temperature		0ºC ~ +40ºC
Storage temperature		-30ºC ~ +70ºC
Protection degree		IP20 according to EN20324
In accordance with Standard		EN60669-2-1

Wiring Diagram

•Example nº1:
With pushbutton and expanded with slaves



•Example nº2:
With potentiometer



- Mounting in DIN 46277 rail.
- Controls:
  - Pushbutton with or without Memory.
  - Potentiometer (external or by built-in one).
  - 0/10VDC signal.
- Protected against overload, short-circuit and overheat.
- Anti-panic input for safety systems.
- Master/Slave configuration; allowing to increase the load, distributing it in different dimmers with a single control.

RE EL5 E00

- Leading and trailing edge dimmer, depending on the load (R, L, C):
  - Incandescent and 230V~ Halogen lamps.
  - LV Halogen lamps with electromagnetic transformer.
  - LV Halogen lamps with electronic transformer (L or C).

RE EL5 E01

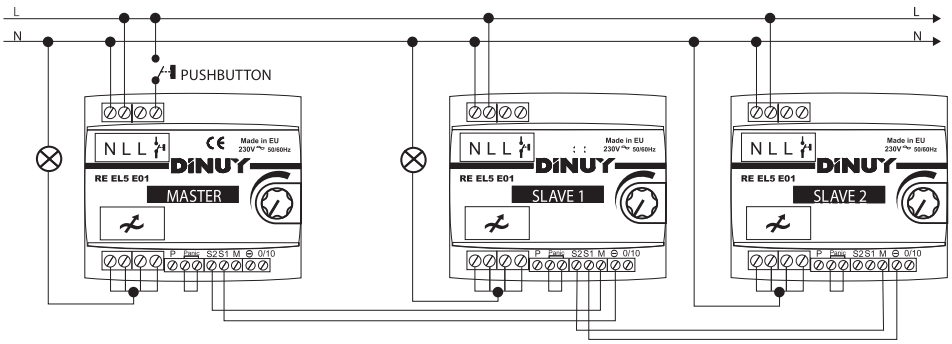
- Leading edge dimmer (R, L):
  - Incandescent and 230V~ Halogen lamps.
  - LV Halogen lamps with electromagnetic transformer.
  - LV Halogen lamps with electronic transformer (L).

Technical Specifications

REFERENCE		RE EL5 E00	RE EL5 E01
Power supply		230V-50Hz	
Consumption		5VA	
Load	Incandescent & 230V Halogens	100W - 1000W	100W - 1000W
	LV Halogens Electronic transformer (L type)	100W - 1000W	100W - 1000W
	LV Halogens Electronic transformer (C type)	100W - 1000W	-
	LV Halogens Electromagnetic transformer	100W - 1000W	100W - 1000W
Control		Pushbutton (non-lighted), Potentiometer or 0/10VDC Signal	
Dimensions		Five modules (87,5mm width)	
Weight		260g	400g
Working temperature		0ºC ~ +55ºC	
Protection degree		IP20 according to EN20324	
In accordance with Standard		EN60669-2-1	

Wiring Diagram

•Example: Master/slave installation with Pushbutton control



CO KNX 001: DINUY/RF Interface

- Communication Interface between DINUY dimmers and wireless compatible sensors.
- At the moment that receives a RF signal from a sensor it transmits the order to the dimmers, being possible to regulate any type of load, thanks to the wide range of available dimmers.
- Includes the signal repeater function.
- Technical specifications:
  - Installation: DIN-rail
  - Power supply: 230V~ 50Hz
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 1 module wide
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002
  - Compatible Dimmers: RE EL2 E00, RE EL5 E00, RE EL5 E01, RE EL5 002, RE EL1 LE1, RE EL5 LE1 & RE EL5 DA1

RC KNX 001: 5-channels Remote Control

- Remote control for lighting and shutters/blinds control.
- Five different channels and five different scenes.
- Allows the following functions:
  - Switches ON/OFF and Dims the lighting.
  - Moves Up/Down shutters and blinds.
  - Saves and Recovers Scenes.
- Technical specifications:
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Channels: 5
  - Scenes: 5
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 105 x 50 x 12mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1, RE KNX LE2 & RE KNX RGB

EM KNX 002: 1-channel Interface for Pushbutton

- One-channel interface for 2-fold pushbutton. It allows:
  - Switch ON/OFF: Connects or disconnects the linked actuator. ON or OFF is sent depending on which of the two buttons is pressed.
  - Dimmer: Connects, disconnects or dims the linked actuator. It sends ON/OFF or Dimming_Up/Dimming_Down depending on which of the two buttons is pressed the duration of the action.
  - Blinds/Shutters: Controls a linked blind actuator. It sends Step_Up/Step_Down or Move_Up/Move_Down depending on which of the two buttons is pressed and the duration of the action.
  - Scenes: Saves and recovers two different scenes (one scene in each button). It sends Scene_Save or Scene_Load depending on the duration of the action.
- Technical specifications:
  - Installation: Standard mechanism box, behind pushbutton
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 45 x 45 x 12mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1 & RE KNX LE2

PU KNX 001: 1-channel Pushbutton

- One-channel portable pushbutton. It allows:
  - Switch ON/OFF & Toggle: Connects, disconnects or switches the linked actuator. It sends ON/OFF/Toggle depending on the configuration.
  - Dimmer: Connects, disconnects or dims the linked actuator. It sends ON/OFF/Toggle or Dimming_Up/Dimming_Down depending on the configuration.
  - Blinds/Shutters: Controls a linked blind actuator. It sends Step_Up/Step_Down or Move_Up/Move_Down depending on the configuration.
  - Scenes: Saves and recovers one scene (0...4) depending on the configuration.
- Technical specifications:
  - Installation: Portable or wall fix mounted
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1 & RE KNX LE2

CO KNX 004: USB/RF Interface Stick + Software

- KNX-RF USB Interface Stick with Visualization and Control Software (Virtual Remote Control).
- Establishes a bidirectional communication between a PC and the KNX-RF installation and allows the control of lighting, HVAC or blinds/shutters without wires.
- Up to 16-channels and 8 scenes.

AM KNX 001: RF-signals Repeater

- RF signals repeater. It enlarges the range between transmitters and actuators.
- Up to 3 consecutive units can be used in the same installation.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 45 x 45 x 12mm
  - Compatible with: any KNX-RF signal

EM KNT 001: 4-channels Universal Interface

- Four-channels universal interface for pushbuttons.
- Each channel can be used as Input/Output depending on the setting by the ETS. Each channel can be used as Pushbutton/Switch interface (binary input reading) or outputs (visualization with LED).
- Each channel can work as:
  - Switch: to turn the lighting ON and OFF.
  - Switch + Dimmer: to turn ON/OFF and dim the lighting.
  - Blinds control: to move the blinds/shutters.
  - Scenes control: to save and recover a light scene.
  - Values sending: to send different measures or values, for example, the brightness level, temperature,...
  - Impulse counter: to count the number of operations.
  - LED activation: to inform about an operation.

EM KNT 002: 4-channels Analog/Digital Sensor

- Analog/digital sensor which offers a large variety of features. Its 4 multi-function inputs can be configured as digital inputs for sensors and potential-free pushbuttons as temperature probes.
- Four inputs can be configured as followed:
  - Binary inputs (switch, pushbutton):
  - Switch: to turn the lighting ON and OFF.
  - Switch + Dimmer: ON/OFF/Dimming the lighting.
  - Blinds control: to move the blinds/shutters.
  - Scenes control: to save and recover a light scene.
  - Values sending: sends different measures or values, for example, the brightness level...
  - Impulse counter: counts the number of operations.
  - Temperature sensor: A temperature probe can be connected to measure the temperature of the room.
- Can be mounted within universal mechanism boxes or junction boxes.
- No external supply required different from Bus. KNX BCU integrated.
- Small size: 38 x 42 x 15mm.

CO KNT 001: DINUY Dimmers / KNX Interface

- Communication interface between DINUY dimmers and any KNX-TP compatible device.
- At the moment that receives a signal from a sensor transmits the order to the dimmer, being possible to control almost any type of load.
- Compatible with all DINUY modular dimmers. Unidirectional communication.
- It allows switching ON/OFF, Dim and save or recall up to 8 lighting scenes.
- Commissioning by ETS4.
- Technical specifications:
  - Power supply: BUS KNX 24V_{DC}
  - Installation: DIN-rail
  - Compatible Dimmers: RE EL2 E00, RE EL5 E00, RE EL5 E01, RE EL5 002, RE EL1 LE1, RE EL5 LE1 & RE EL5 DA1
  - Dimensions: 1 module width

CO KNX 002: KNX-RF / KNX-TP Media Coupler

- RF-KNX / TP-KNX media coupler.
- Interface between wireless and twisted-pair devices.
- It allows the transmission of telegrams from the radio modules to KNX Bus devices and vice versa (bidirectional communication).
- Can be used together with devices to control lighting, HVAC, blinds/shutters and main purpose devices.
- Up to 16 bidirectional RF or TP independent channels.
- Commissioning by ETS4.
- Technical specifications:
  - Power supply: BUS KNX 24V_{DC}
  - Range: up to 100m (in the free fiel)
  - Frequency: 868,4MHz
  - Dimensions: 78 x 28 x 23mm
  - Channels: 16 bidirectional channels

motion detectors

Ceiling mounted

Wall mounted

Universal box mounted

With Stand-by brightness setting

High-Frequency (Radar)

Ceiling LED lights with HF detector

KNX

Wireless

Infrareds Detectors

REFERENCE	MOUNTING	LOAD CAPACITY						FREE-VOLTAGE CONTACT	COVERAGE	IP
		Inc/Hal	Ferrom.	Electron.	CFL	Fluo	LED			
Ceiling										
DM TEC 000	Mini-detector. Flush-ceiling. 1-channel	2000W	1000VA	1000VA	400W	900VA (100µF)	400W	NO	360° / Ø6m	IP40
DM TEC 001	Surface	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	360° / Ø7m	IP40
DM TEC 002	Flush-ceiling. 2-channels	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	YES	360° / Ø6m	IP40
DM TEC 003	Flush-ceiling. 1-channel	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	360° / Ø7m	IP40
DM TEC 004	Flush-ceiling. 1-channel. With Slaves	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	360° / Ø7m	IP40
DM SEN T03	Extra movement sensor for DM TEC 004								360° / Ø7m	IP40
DM TEC PA1	Specially-designed for Corridors. Flush-ceiling	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	22m x 4m	IP40
DM TEC 010	High Bay (up to 10m). Surface	2000W	600W	900W	400W	900VA (100µF)	400W	NO	360° / Ø16 (H: 10m)	IP54
DM TEC 300	High Coverage. Flush-ceiling or Surface	2000W	600W	900W	400W	900VA (100µF)	400W	NO	360° / Ø30m	IP40/ IP44
Wall										
DM BRA 000	Wall or Ceiling	2000W	1000VA	1000VA	400W	900VA (100µF)	900W	YES	180° / 12m	IP55
DM SUP 000	Wall	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	180° / 12m	IP44
DM SUP 002	Wall or Corner	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	240° / 12m	IP54
Universal Box										
DM CAM 001	Universal box - 3 wires	3000W	2400W	3000W	YES**	1300W (130µF)	900W	NO	200° / 8m	IP40
DM CAM 002	Universal box - 2 wires	40W ~ 500W	35W ~ 400W	35W ~ 400W	-	-	-	NO	200° / 8m	IP40
DM CAM 003	Universal box - 2 wires	3W ~ 200W	3W ~ 150W	3W ~ 100W	5W ~ 100W	5W ~ 100W (10µF)	3W ~ 100W	NO	200° / 8m	IP40
Other Voltages										
DM TEC 241	24VDC/24VAC. Surface-ceiling	1500W	1000W	1500W	400W	900VA (100µF)	400W	YES	360° / Ø7m	IP40
DM TEC 243	24VDC/24VAC. Flush-ceiling	1500W	1000W	1500W	400W	900VA (100µF)	400W	YES	360° / Ø7m	IP40
With Stand-by level adjustment for 1/10VDC or DALI ballasts										
DM TE1 001	Surface-ceiling	Up to 80 1/10V Ballasts or LED Drivers							360° / Ø7m	IP40
DM TE1 DA1	Surface-ceiling	Up to 64 DALI Ballasts or LED Drivers							360° / Ø7m	IP40
DM TE1 002	Flush-ceiling	Up to 80 1/10V Ballasts or LED Drivers							360° / Ø7m	IP40
DM TE1 DA2	Flush-ceiling	Up to 64 DALI Ballasts or LED Drivers							360° / Ø7m	IP40
DM SEN T03	Extra movement sensor for DM TE1 002 and DM TE1 DA2								360° / Ø7m	IP40
Accesories										
EM MAN DM0	IR Remote Control for: DM TEC 001, DM TEC 003, DM TEC 004, DM SEN T03, DM TEC PA1, DM SUP 000, DM SUP 002, DM TEC 241, DM TEC 243, DM KNT 001 & DM KNT 002									
EM MAN DM1	IR Remote Control for: DM TEC 300									
EM MAN DM2	IR Remote Control for: DM TEC 010									
AC DM- 002	RC filter for movement detectors									

High Frequency Detectors

REFERENCE	MOUNTING	LOAD CAPACITY						FREE-VOLTAGE CONTACT	COVERAGE	IP
		Inc/Hal	Ferrom.	Electron.	CFL	Fluo	LED			
High-frequency										
DM HF1 000	Concealed	1200W	800W	1200W	400W	800VA	400W	NO	360º / Ø12m	IP20
Light with High-frequency detector										
DM HF1 PL1	Surface-ceiling	LED light with integrated HF movement detector. 11W, 871Lm, 4000K							360º / Ø10m	IP43
DM HF1 PL2	Surface-ceiling	LED light with integrated HF movement detector. 18W, 1541Lm, 4000K							360º / Ø10m	IP43

KNX Detectors

REFERENCE	MOUNTING	DESCRIPTION	COVERAGE	IP
DM KNT 001	Flush-ceiling	KNX Bus control	360º / Ø7m	IP40
DM KNT 002	Wall	KNX Bus control	180º / 10m	IP40
DM KNT 003	Universal box	KNX Bus control	200º / 8m	IP40
DM KNX 001	Flush-ceiling	RF-KNX control	360º / Ø7m	IP40
DM KNX 002	Wall	RF-KNX control	180º / 10m	IP40

Wireless

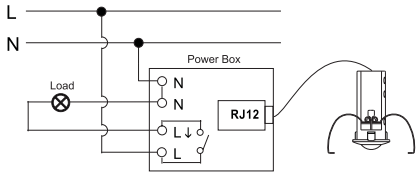
REFERENCE	MOUNTING	LOAD CAPACITY						FREE-VOLTAGE CONTACT	COVERAGE	IP
		Inc/Hal	Ferrom.	Electron.	CFL	Fluo	LED			
Detectors										
DM SEN R01	Flush-ceiling. Battery-operated								360º / Ø6m	IP20
DM SEN R02	Wall mounting. Battery-operated								120º / 6m	IP20
DM SEN R03	Wall or Ceiling mounting. Battery-operated								180º / 10m	IP40
DM SEN R04	Flush-ceiling. 230V-operated								360º / Ø6m	IP20
Receivers										
MI PLA R01	Timer or Impulse relay	3000W	2400W	3000W	YES**	1300W (130µF)	1300W	NO	-	-
MI ACC R01	Time switch Actuator (Imp: 5sec)	3A 250V cosφ=1						YES	-	-
Accesories										
EM MIN 001	Battery-operated transmitter for conventional pushbutton									
EM PUL 002	Battery-operated portable pushbutton									
EM AMP 001	RF signal Amplifier									

**PL: 18x7W, 12x11W, 10x15W, 10x20W, 10x23W

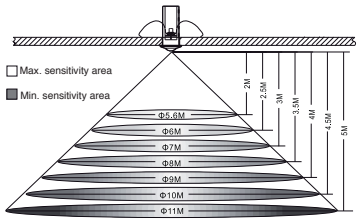
DM TEC 000 – Mini-detector

- Very small motion detector for flush-ceiling mounting.
- With the design of housing body Ø38mm it makes the detector slight and easy installation.
- Omni-directional quad element detector integrated with the unique lens provides “no dead spot” zones and superior sensitivity for every spot zone in its 360º detection range. The detection beams are distributed and well-concentrated over the detection range, which leads to a smallest movement can be detected.
- Precise TIME adjustment: 6 adjustments for time delay setting, test mode and short impulse mode selection.
- Precise LUX adjustment: 6 scales can be chosen freely from 10Lux on. With the given standard values a specified light level threshold can be set for turning loads on.
- High performance single relay for controlling all type of lighting devices.
- Application examples: halls, offices, corridors, bathrooms…

Wiring Diagram



Coverage



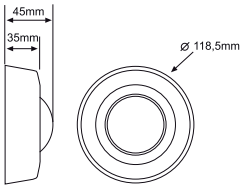
Technical Specifications

REFERENCE		DM TEC 000
Power supply		230V~ 50Hz
Load Capacity	LED lamps	500VA/400W
	Incandescent lamps	2.000W
	230V halogen lamps	1.000W
	LV halogen lamps	1.000VA/600W
	Fluorescent lamps	900VA (100µF)
	CFL	600VA/400W
Range of coverage		360° / Ø6m at 2,5m high
Time settings		Test, 1sec ~ 15min
Light sensor		10Lux ~ 1000Lux
Sensitivity		Adjustable
Working temperature		0ºC ~ 45ºC
Power consumption		<1W
Degree of protection		IP20

DM TEC 001 – Ceiling mounted motion detector

- Surface mounted motion detector for inside use.
- Very high performance single relay for controlling all type of lighting devices.
- Controllable by an I.R. remote control (EM MAN DM0).
- Application examples: garages, halls, offices, corridors, bathrooms…

Dimensions



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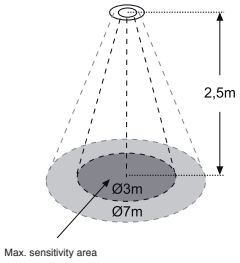
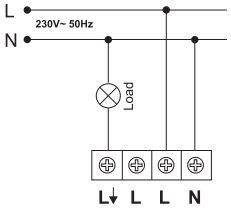


Wiring Diagram



Technical Specifications

REFERENCE		DM TEC 001
Power supply		230V~ 50Hz
Load Capacity	LED lamps	1.300W
	Incandescent lamps	3.000W
	230V halogen lamps	3.000W
	LV halogen lamps with electronic transfo	3.000W
	LV halogen lamps with inductive transfo	2.400W
	Fluorescent lamps	1.300W (130µF)
	CFL	18x7W 12x11W 10x15W 10x20W 10x23W
Range of coverage		360° / Ø7m at 2,5m high
Time settings		6sec ~ 12min
Light sensor		3Lux ~ 100Lux
Sensitivity		Adjustable by remote control (EM MAN DM0)
Working temperature		-10ºC ~ 45ºC
Power consumption		<1W
Degree of protection		IP40

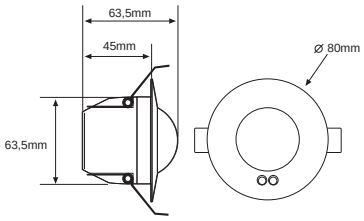
DM TEC 002, DM TEC 003, DM TEC 004 & DM SEN T03 – Flush-ceiling mounted motion detectors

DM TEC 003

- Flush-ceiling mounted motion detectors for inside use.
- Very high performance single relay for controlling all type of lighting devices.
- Controllable by an I.R. remote control (EM MAN DM0): DM TEC 003, DM TEC 004 & DM SEN T03.
- Application examples: halls, offices, corridors, bathrooms…

Dimensions

DM TEC 002
DM TEC 004

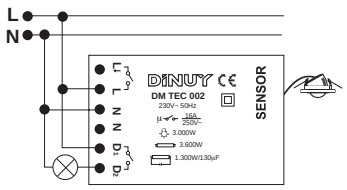


Technical Specifications

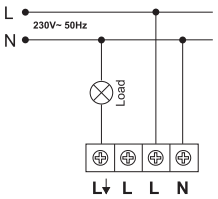
REFERENCE		DM TEC 002	DM TEC 003	DM TEC 004	DM SEN T03
Model		2-channels detector	1-channel detector	1-channel detector with Slaves	Slave sensor for DM TEC 004
Power supply		230V~ 50Hz			-
Load Capacity	LED lamps	1.300W			-
	Incandescent lamps	3.000W			-
	230V halogen lamps	3.000W			-
	LV halogen lamps with electronic transfo	3.000W			-
	LV halogen lamps with inductive transfo	2.400W			-
	Fluorescent lamps	1.300W (130µF)			-
	CFL	18x7W 12x11W 10x15W 10x20W 10x23W			-
Range of coverage		360° / Ø6m at 2,5m high	360° / Ø7m at 2,5m high	360° / Ø7m at 2,5m high	360° / Ø7m at 2,5m high
Time settings		6sec ~ 12min / 10sec ~ 30min	6sec ~ 12min	6sec ~ 12min	6sec ~ 12min
Light sensor		3Lux ~ 100Lux			
Sensitivity		-	Adjustable by remote control (EM MAN DM0)		
Output channels		2	1	1	-
Number of Slaves		0	0	14	-
Working temperature		-10°C ~ 45°C			
Power consumption		<1W			
Degree of protection		IP40			

Wiring Diagram

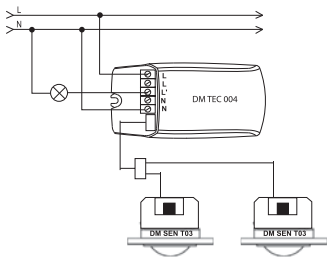
DM TEC 002



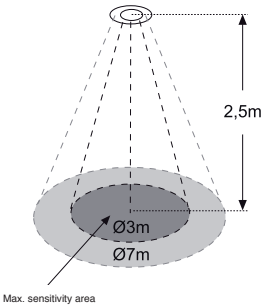
DM TEC 003



DM TEC 004



Coverage



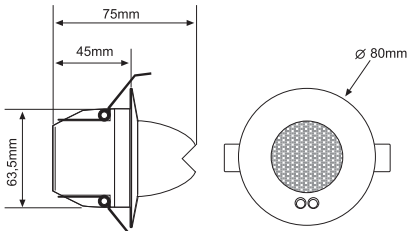
DM TEC PA1 - Specially designed for corridors

- Flush-ceiling mounted motion detector with narrow detection area ideal for corridors
- Time delay and brightness level adjustable by control knobs or remote control (EM MAN DM0)
- Coverage: 360º and 13m (max.) at 2.5m high
- 1-channel to switch the lighting
- Switching for all types of light fixtures by high performance relay
- Typical applications: monitoring of long corridors

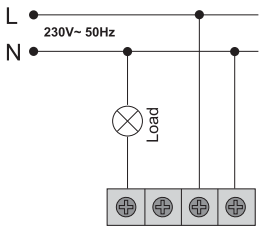
Technical Specifications

REFERENCE		DM TEC PA1
Detector type		Flush-ceiling mounting
Power supply		220 - 240V ~50Hz
Load Capacity	Incandescence	3.000W
	230V Halogens	230V 3.000W
	Halogens 12V (ferromagnetic)	2.400W
	Halogens 12V (electronic)	3.000W
	Fluorescent lamps	1.300W (130µF)
	CFL lamps	18x7W 12x11W 10x15W 10x20W 10x23W
Contact		Non-potential free 16A relay
Range (H: 2.5m & 18ºC)		Walking towards: 13m Walking across: 22m
Time delay		6sec - 12min
Brightness		3 - 100 Lux
Sensibility		Adjustable
Working temperature		-10ºC - +45ºC
Protection degree		IP40

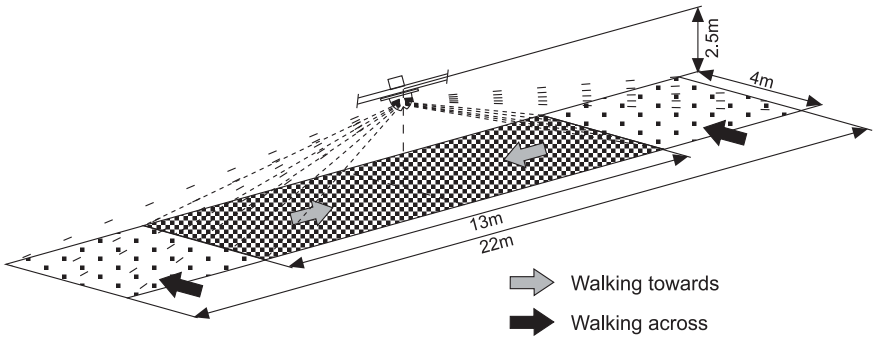
Dimensions



Wiring Diagram



Coverage



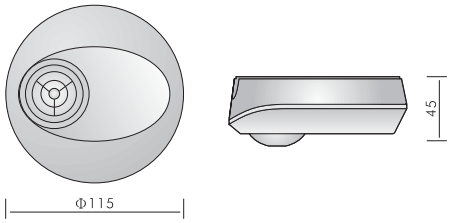
DM TEC 010 - High Bay Motion Detector

- IR movement detector specially-designed for it installation at great height, forexample: industrial buildings, warehouses, sports centers...
- Powerful relay and advanced technology are used to enable controlling all kinds of lighting loads.
- IR remote control is available for easy and quick setting: EM MAN DM2.
- Manually switch on the load by wire connected to an external N.C. type pushbutton switch when the ambient light level exceeds the pre-set lux value.
- The ambient Lux value can be learned as the threshold for switching on/off the loads by the control knobs or remote control if the provided Lux values do not match user's requirement.

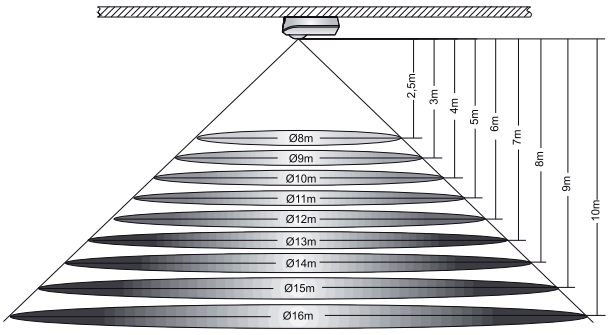
Technical Specifications

REFERENCE		DM TEC 010
	Power supply	230V~ ±10% 50/60Hz
Load Capacity	Incandescence	2,000W
	230V Halogen	1,000W
	LV Halogen (ferromagnetic)	600W
	LV Halogen (electronic)	900W
	Fluorescence	900VA (100μF)
	LED lamps	400W
	CFL	400W
	Coverage	360°, Ø16m at 10m high
	Recommended height	2,5m ~ 10m
	Time delay	Pulse, 5sec ~ 10min
	Brightness	10Lux ~ 2.000Lux
	Sensitivity	Ø2m ~ Ø16m (H: 10m)
	Working temperature	0°C ~ +45°C
	Dimensions	Ø115m x 45mm
	Protection degree	IP54

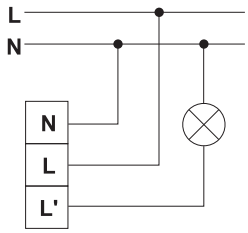
Dimensions



Coverage



Wiring Diagram



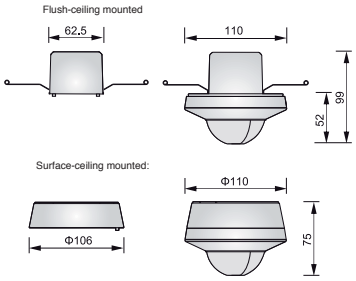
DM TEC 300 – High-range ceiling mounted motion detector

- Surface or flush-ceiling mounted motion detector for monitoring large areas.
- High performance single relay for controlling all type of lighting devices.
- Controllable by an I.R. remote control (EM MAN DM1).
- Application examples: garages, gyms, warehouses…

Technical Specifications

REFERENCE		DM TEC 300
Power supply:		230V~ 50Hz
Load Capacity	LED lamps	400W
	Incandescent lamps	2.000W
	230V halogen lamps	1.000W
	LV halogen lamps with electronic transfo	900W
	LV halogen lamps with inductive transfo	600W
	Fluorescent lamps	900W (100µF)
	CFL	400W
Range of coverage		360° / Ø30m at 2,5m high
Time settings		10sec ~ 30min & impulse
Light sensor		10Lux ~ 2.000Lux
Sensitivity		Adjustable
Working temperature		-20°C ~ +45°C
Power consumption		<1W
Degree of protection		IP40 (flush-mounted) / IP44 (surface mounted)

Dimensions



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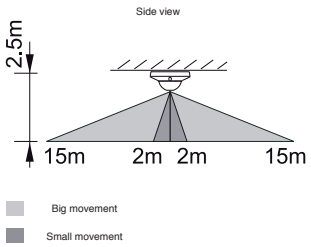
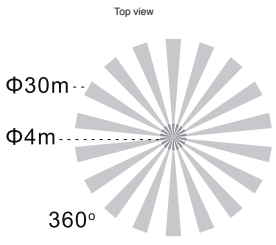
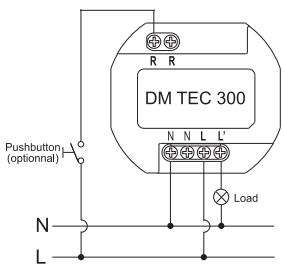




Wiring Diagram



DM TEC 241 & DM TEC 243 – 24V Ceiling mounted motion detector

DM TEC 241

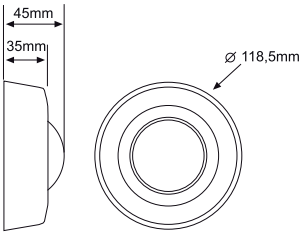
DM TEC 243

- 24VDC / 24VAC Motion Detectors for inside use.
- Surface or Flush-ceiling mounting.
- Time delay and brightness level adjustable by control knobs or remote control (EM MAN DM0).
- Coverage: 360º and Ø7m (max.) at 2.5m high.
- One output channel for lighting.
- High performance relay which allows switching all type of light fixtures.

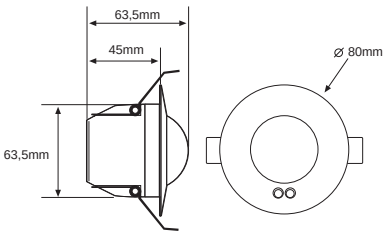
Technical Specifications

REFERENCE		DM TEC 241	DM TEC 243
Power supply		24VDC / 24VAC	
Mounting		Surface-ceiling	Flush-ceiling
Load Capacity	Incandescent lamps	1500W	
	230V Halogen lamps	1500W	
	LV Halogen lamps (Electronic transfo)	1500W	
	LV Halogen lamps (Ferromagnetic transfo)	1000W	
Coverage		360° / Ø7m at 2,5m high	
Time settings		6sec ~ 12min	
Light sensor		3Lux ~ 100Lux	
Sensitivity		Adjustable by remote control (EM MAN DM0)	
Working temperature		-10°C ~ 45°C	
Protection degree		IP40	

Dimensions

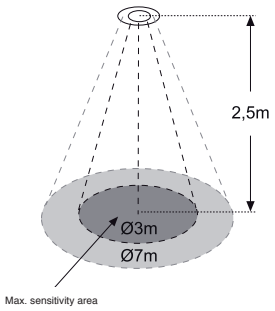


DM TEC 241



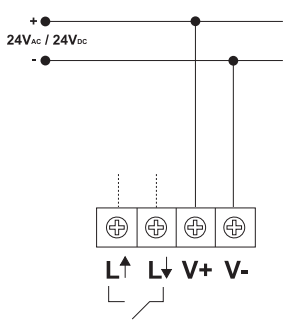
DM TEC 243

Coverage



Wiring Diagram

DM TEC 241
DM TEC 243



DM TE1 001, DM TE1 DA1, DM TE1 002 & DM TE1 DA2
Ceiling mounted motion detectors with Stand-by level setting

DM TE1 001
DM TE1 DA1

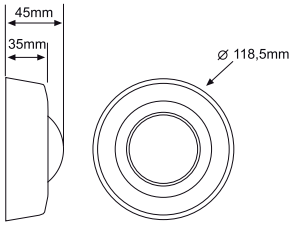
DM TE1 002
DM TE1 DA2

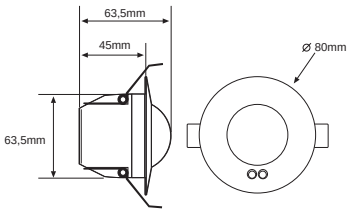
- Ceiling mounted motion detectors with minimum level setting. It allows keeping always a certain light level.
- Ceiling mounting:
  - DM TE1 001 & DM TE1 DA1: surface mounted motion detector.
  - DM TE1 002 & DM TE1 DA2: flush-ceiling mounted motion detector.
- Valid for 1/10VDC / DALI Ballasts or LED Drivers.
- Controllable by an I.R. remote control (EM MAN DM0).

Technical Specifications

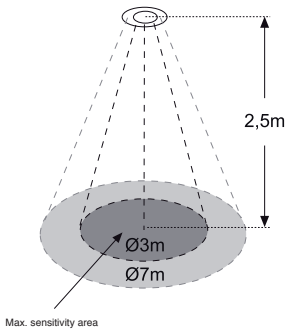
REFERENCE	DM TE1 001	DM TE1 DA1	DM TE1 002	DM TE1 DA2
Power supply	24VDC / 24VAC			
Load Capacity	80 x 1/10VDC Ballast or LED Drivers	64 x DALI Ballast or LED Drivers	80 x 1/10VDC Ballast or LED Drivers	64 x DALI Ballast or LED Drivers
Time settings	6sec ~ 12min			
Light sensor	3Lux ~ 100Lux			
Working temperature	-10ºC ~ 45ºC			
Power consumption	<1W			
Degree of protection	IP40			

Dimensions

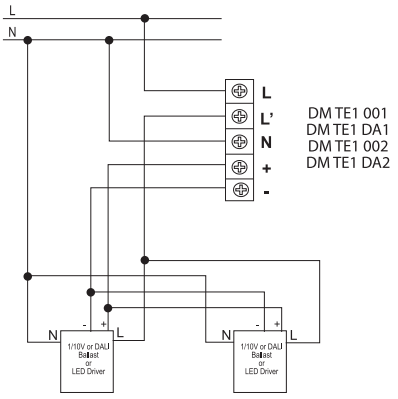




Coverage



Wiring Diagram



If the current rating is higher than 16A,
a contactor must be incorporated into the L' output.

DM BRA 000 – 180° Wall-mounted motion detector

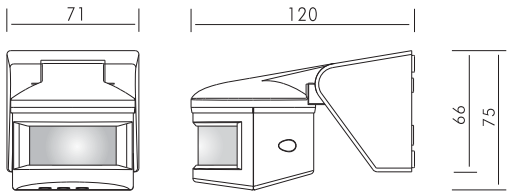
- Wall and ceiling mountable waterproof PIR motion detector.
- A photocell is built-in to allow automatically switching on/off the light as per the preset Lux value.
- Low standby power consumption.
- The user friendly Lux, Time and Meter adjusting functions are designed for user to set the control conditions of motion detector according to their requirements conveniently.
- High performance single relay for controlling all type of lighting devices.
- Can be used to control lighting or HVAC device (free-voltage contact).
- Application examples: garages, corridors, warehouses…

Technical Specifications

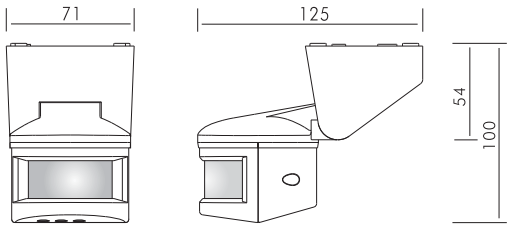
REFERENCE		DM BRA 000
Power supply		230V~ 50Hz
Load Capacity	LED lamps	400W
	Incandescent lamps	2.000W
	230V halogen lamps	1.000W
	LV halogen lamps with electronic transfo	600W
	LV halogen lamps with inductive transfo	600W
	Fluorescent lamps	900VA (100µF)
	CFL	400W
Range of coverage		180° / 12m at 2m high
Time settings		5sec ~ 30min, Test & impulse
Light sensor		5Lux ~ 500Lux
Sensitivity		Adjustable
Working temperature		-20°C ~ +50°C
Power consumption		<1W
Degree of protection		IP55

Dimensions

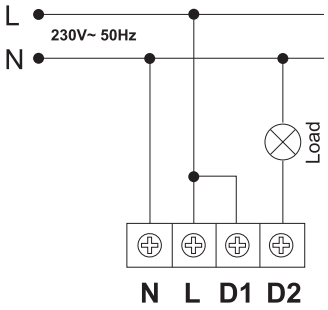
· Wall mount:



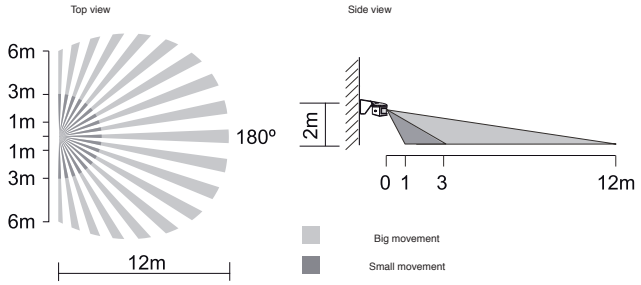
· Ceiling mount:



Wiring Diagram



Coverage



DM SUP 000 – 180º Wall-mounted motion detector

- Surface-mounted motion detector.
- A photocell is built-in to allow automatically switching on/off the light as per the preset Lux value.
- Very high performance single relay for controlling all type of lighting devices.
- Can be used to control lighting or HVAC device.
- Controllable by an I.R. remote control (EM MAN DM0).
- Application examples: garages, corridors, warehouses…

DM SUP 002 – 240º Wall or Corner-mounted motion detector

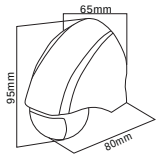
- Surface or corner-mounted motion detector.
- A photocell is built-in to allow automatically switching on/off the light as per the preset Lux value.
- Very high performance single relay for controlling all type of lighting devices.
- Can be used to control lighting or HVAC device.
- Controllable by an I.R. remote control (EM MAN DM0).
- Application examples: garages, corridors, warehouses…

Technical Specifications

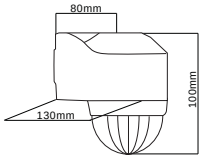
REFERENCE		DM SUP 000	DM SUP 002
Power supply		230V~ 50Hz	
Load Capacity	LED lamps	1300W	
	Incandescent lamps	3000W	
	230V halogen lamps	3000W	
	LV halogen lamps with electronic transfo	3000W	
	LV halogen lamps with inductive transfo	2400W	
	Fluorescent lamps	1300W (130uF)	
	CFL	18 x 7W, 12 x 11W, 10 x 15W, 10 x 20W, 10 x 23W	
Range of coverage		180° / 12m at 2m high	240° / 12m at 2m high
Time settings		5sec ~ 10min	
Light sensor		3Lux ~ 100Lux	
Sensitivity		Adjustable	
Working temperature		-20ºC ~ +40ºC	
Power consumption		<1W	
Degree of protection		IP44	IP54

Dimensions

DM SUP 000

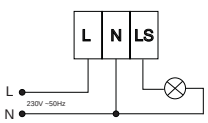


DM SUP 002

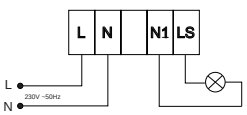


Wiring Diagram

DM SUP 000

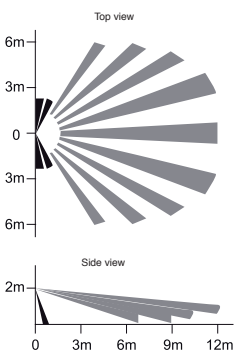


DM SUP 002

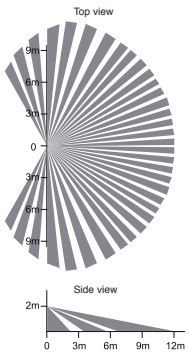


Coverage

DM SUP 000



DM SUP 002



DM CAM 0001, DM CAM 0002 & DM CAM 003 – Universal box-mounted motion detector

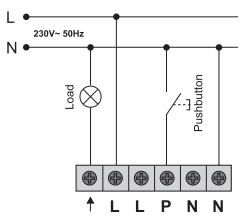
- Indoor Motion Detectors for universal mechanism box mounting
- 2-wires (not required Neutral-wire) or 3-wires installation
- The 2-wires models allow direct replacement of a switch or a pushbutton with staircase time switch
- DM CAM 001 and DM CAM 003 are valid for all types of loads, including LED lamps
- Includes 2 PIR sensors highly sensitive, allowing the detection of the slightest movement
- Built-in light sensor, which can limit its operation to the level of existing daylight
- Time delay and brightness level adjustable by potentiometers or remote control EM MAN DM0 (DM CAM 0001 & DM CAM 002)
- Coverage: 200º in 8m (max.) at 1.2 - 1.5m high
- Settings in the rear of the sensor, which hinders undesired manipulation
- It can be activated manually with external pushbuttons
- The “Pulse” function (DM CAM 003) allows, in the communities of neighbors with staircase time switch, replacing pushbuttons without changing existing installation
- Application examples: corridors, staircases, bathrooms...

Technical Specifications

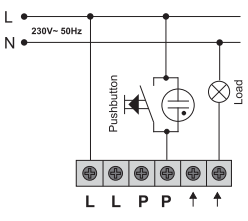
REFERENCE		DM CAM 001	DM CAM 002	DM CAM 003
Installation		3-wire	2-wire	2-wire
Power supply		230V~ 50Hz		
Load	Incandescence	3000W	40W~500W	3W~200W
	230V Halogens	3000W	40W~400W	3W~200W
	LV Halogens (ferromagnetic)	2400W	35W~400W	3W~150W
	LV Halogens (electronic)	3000W	35W~400W	3W~100W (tipo LC)
	Fluorescence	1300W (130µF)	-	5W~100W (10µF)
	PL lamps	18x7W 12x11W 10x15W 10x20W 10x23W	-	5W~100W (up to 8 lamps)
	230V LED lamps	900W	-	3W~100W (up to 16 lamps)
	Contactor	Yes	-	With excitation current > 16mA
	Staircase time switch	Yes	-	With leakage current by the pushbutton > 30mA (DINUY ref.: MI EL3 003 or MI EL3 004)
Coverage		200º in 8m (max.) at 1,2m~1,5m high		
External Pushbuttons		Only non-luminous pushbuttons	Up to a maximum of 3 luminous pushbuttons	Only non-luminous pushbuttons
Timing		30sec ~ 10min		30sec ~ 10min or Pulse (4sec ON / 30sec OFF)
Lux setting		3Lux ~ 100Lux		
Sensitivity		Adjustable by remote control (EM MAN DM0)		-
Protection degree		IP40, Class II		

Wiring Diagram

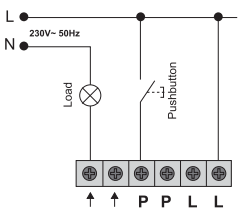
DM CAM 001



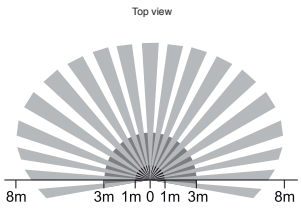
DM CAM 002

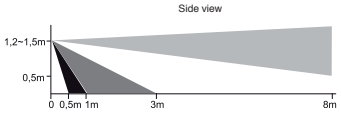


DM CAM 003

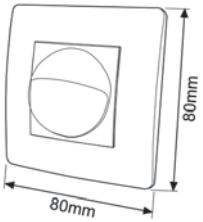


Coverage





Dimensions



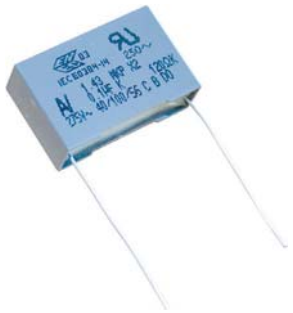
EM MAN DM0, EM MAN DM1 & EM MAN DM2– I.R. Remote controls for motion detectors

- Infrared remote controls for the adjustment of the settings of different motion detectors.
- All settings can be made comfortably without having the annoyance of going up the ladders.
- After setting a detector with the remote control, the knobs are canceled, thus preventing unwanted manipulations.

Technical Specifications

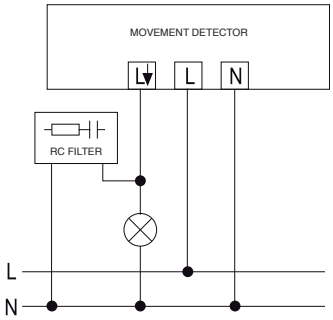
REFERENCE	EM MAN DM0	EM MAN DM1	EM MAN DM2
Power supply	1 battery 3V type CR2032 (included)		
Compatible with	DM SUP 000, DM SUP 002, DM TEC 001, DM TEC 003, DM TEC 004 & DM SEN T03	DM TEC 300	DM TEC 010
Dimensions	105 x 50 x 12mm		
Working temperature	0°C ~ 45°C		
Degree of protection	IP51		

AC DM 002



- RC filter for suppression of interferences generated by the switching of inductive loads, such as relays, contactors, fluorescent lamps, transformers...

Wiring Diagram



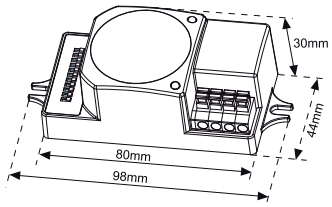
DM HF1 000 – High-frequency motion detector

- High-frequency motion detector for invisible light switching.
- Turns on the light on detection of moving objects, and turns off after a pre-selected hold-time when there is no motion detected.
- A daylight sensor is also built-in to switch off the light when there is sufficient natural light.
- In many cases, several sensors are connected together to control the same fixture. The sudden on/off of ballasts/drivers or relays causes huge magnetic pulse, which may miss-trigger the sensor. This sensor has very advanced software to ignore that interference.
- Designed in the software, the sensor switches on/off the load right on the zero-cross point, to ensure the minimum current passing through the relay contact point, and enable the maximum load and life-time of the relay.
- Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

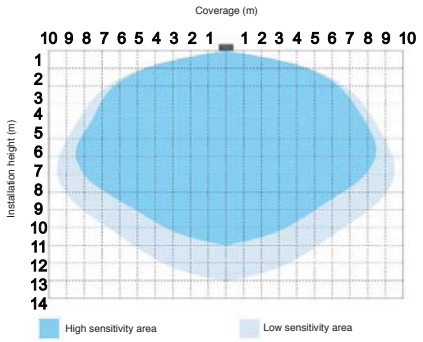
Technical Specifications

REFERENCE		DM HF1 000
	Power supply	230V~ 50Hz
Load Capacity	LED lamps	400W
	Incandescent lamps	1.200W
	230V halogen lamps	1.200W
	LV halogen lamps with electronic transfo	1.200W
	LV halogen lamps with inductive transfo	400W
	Fluorescent lamps	400W
	CFL	400W
	Detection angle	30° ~ 150°
	Range of coverage	Ø12m ~ Ø14m (depending on the height)
	Time settings	5sec ~ 30min
	Light sensor	2Lux ~ 50Lux
	Sensitivity	Adjustable
	Frequency	5.8GHz ±75MHz
	Power transmission	<0.2mW
	Working temperature	-35°C ~ +70°C
	Power consumption	<0,5W
	Degree of protection	IP20

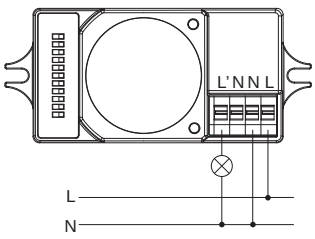
Dimensions



Coverage



Wiring Diagram



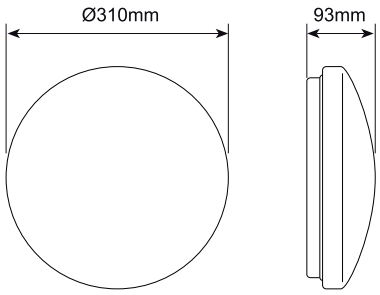
DM HF1 PL1 & DM HF1 PL2 - LED lights with High-Frequency detector

- Wall and ceiling indoor LED light with integrated high-frequency motion detector for invisible light switching
- Ceiling or wall mounting
- Power: 11W or 18W.
- Number of LEDs: 30 or 50. Luminous flux: 871lm or 1541lm
- HF technology (5.8 GHz) which reacts to the smallest motion, independently of temperature
- Range, brightness value and delay time can be set with DIPs
- Application examples: corridors, halls, staircases, storage rooms, cellars, toilets, etc

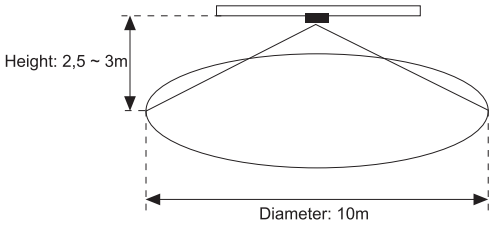
Technical Specifications

REFERENCIA	DM HF1 PL1	DM HF1 PL2
Power Supply	230V~ 50Hz	
Number of LEDs	30	50
Power	11W	18W
Luminous Flux	871lm	1541lm
Motion Detector Type	High-Frequency	
Motion Detector Range	Ø10m at 2,5m high	
Time Delay	5sec ~ 30min	
Brightness	2Lux ~ 50Lux	
Range Adjustment	10% ~ 100%	
Mounting	Ceiling or Wall	
Colour Temperature	4000K	
Material	Globe: Poly Methyl-methacrylate Base: Aluminium	
Working Temperature	-20ºC ~ +50ºC	
Protection Degree	IP43	
According to the Standard	EN60598/CEM2001/108/CE	

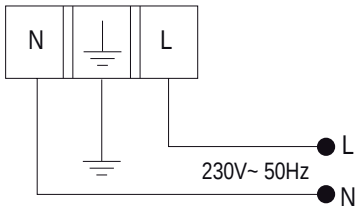
Dimensions



Coverage



Wiring Diagram



DM KNT 001, DM KNT 002 & DM KNT 003 - KNX-TP Movement Detectors

DM KNT 001

DM KNT 002

DM KNT 003

- KNX motion detectors.
- Different working modes:
  - Movement detector
  - Daylight control
  - Twilight switch
  - Signal monitoring
  - Brightness sensor
  - Temperature sensor
- Possibility of adjusting the delay time and Lux setting by ETS, via control knobs or by remote control (EM MAN DM0).
- Built-in programming key/LED and KNX connector.

Technical Specifications

REFERENCE	DM KNT 001	DM KNT 002	DM KNT 003
Power supply	21Vcc~32Vcc (by the Bus)		
Programming by	ETS3 or ETS4		
Mounting	Flush-ceiling	Wall-mounting	Universal box
Coverage	Ø7m at 2,5m high	180° and 10m at 2m high	200° and 8m
KNX Medium	TP1		
Output channels	1		
Light sensor	5Lux ~ 1000Lux		
Time delay	0,1sec ~ 85min		
Working temperature	0°C ~ +40°C		
Protection degree	IP20		
According to the Standard	KNX Standard 2.0		

DM KNX 001 & DM KNX 002 - KNX-RF Compatible Movement Detectors

DM KNX 001

DM KNX 002

- Wireless Motion sensors which detects small temperature changes (PIR) in its coverage area.
- Built-in brightness sensor which permits to limit the detection to the daylight.
- Battery-operated with a very long useful life.
- Built-in LED which indicates motion has been detected.

Technical Specifications

REFERENCE	DM KNX 001	DM KNX 002
Power supply	Battery-operated	
Useful life	> 4 years (50det/day)	> 15 years (360det/day)
Mounting	Flush-ceiling	Wall-mounting
Coverage	Ø7m at 2,5m high	180° and 10m at 2m high
Light sensor	3Lux ~ 100Lux	
Compatible with	IT KNX 001 & MI KNX 001	
Working temperature	0°C ~ +45°C	
Protection degree	IP20	

Wireless detectors (transmitters)

- This family of wireless devices is composed of sensors (transmitters) and receivers, which need to work together.
- Is possible to combine up to 30 transmitters with a single receiver, and an unlimited number of receivers with each emitter.
- Allow controlling lights or other electrical appliances.
- Codified transmission in 868,4MHz. Range of up to 200m in the free field.

DM SEN R01 & DM SEN R04

- Flush-ceiling mounted wireless motion detector.
- Battery (DM SEN R01) or 230V (DM SEN R04) operated.

DM SEN R02

- Surface mounted wireless motion detector.
- Battery operated.

DM SEN R03

- Surface or ceiling mounted wireless motion detector.
- Battery operated.

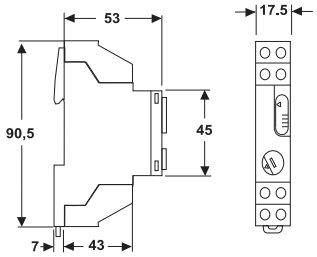
Technical Specifications

REFERENCE	DM SEN R01	DM SEN R02	DM SEN R03	DM SEN R04
Power supply	1 x Lithium battery. Useful life: > 4 years (50 det/day and 25ºC)	3 x LR03 batteries. Useful life: > 4 years (50 det/day and 25ºC)	3 x LR03 batteries. Useful life: > 4 years (50 det/day and 25ºC)	230V ~ 50 Hz
Radiofrequency	868,4MHz. Up to 200m in the free field			
Light sensor	3Lux ~ 100Lux			
Range of coverage	360º / 6m at Ø3m high	120º / 6m	180º / 10m	360º / 6m at Ø3m high
Working temperature	-10ºC ~ +40ºC			
Degree of protection	IP 20			

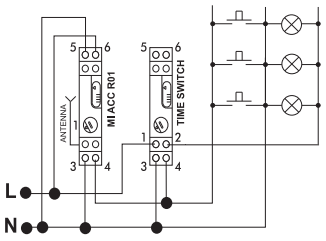
MI ACC R01 – Wireless Staircase lighting switch Actuator

- Important savings in installations. Just install the actuator together with the existing staircase lighting switch according to the wiring diagram.
- Hereinafter, every time a motion detector is triggered, it will send a signal to the actuator via radio frequency, which will connect the time switch.
- No works because it keeps the original installation being fully operational.

Dimensions



Wiring Diagram



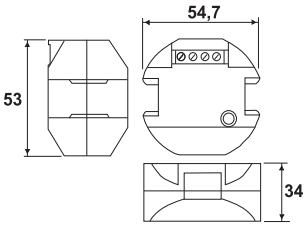
Technical Specifications

REFERENCE	MI ACC R01
Power supply:	230V~ 50Hz
Switching capacity:	3A 250V cosφ=1
Power consumption:	35mA
Time delay:	5sec
Frequency:	868,4MHz

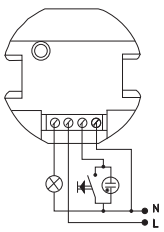
MI PLA R01 – Wireless Timer or Switch

- Important savings in installations.
- By not requiring the installation with cables, you can install as many detectors as you want and in places are really needed.
- Very high performance single relay for controlling all type of lighting devices.
- Specially indicated to make independent the lighting by landings.

Dimensions



Wiring Diagram



The installation of the pushbutton is optional.

Technical Specifications

REFERENCE		MI PLA R01
Power supply		230V ~ 50Hz
Load Capacity	LED lamps	1.300W
	Incandescent lamps	3.000W
	230V halogen lamps	3.000W
	LV halogen lamps with electronic transfo	3.000W
	LV halogen lamps with inductive transfo	2.400W
	Fluorescent lamps	1.300W (130µF)
	CFL	18x7W 12x11W 10x15W 10x20W 10x23W
Switching capacity		16A 250V cosφ=1
Power consumption:		40mA
Time delay:		30sec ~ 10min
Frequency:		868,4MHz

MOTION DETECTORS (TRANSMITTERS)

DM SEN R01/R04

DM SEN R02

200 m

DM SEN R03

RECEIVERS

MI ACC R01

Wireless Staircase lighting switch Actuator

Convert an old staircase installation with pushbutton into an effective detection system without additional wiring works or keeping the previous installation.

MI PLA R01

Wireless Timer or Switch

Use a stand-alone movement detector with a high capacity wireless timer.

ACCESSORIES (OPTIONAL)

EM MIN 001

Transmitter for conventional pushbutton

EM PUL 002

Wireless pushbutton

EM AMP 001

Signal repeater

With these two transmitters, receivers can be activated manually from where desired.

Functions: resettable timer or Impulse relay (with MI PLA R01).

Amplifies the RF signal in installations where there are problems of range.

It does not amplify impulse relay signal, only timer function.

Dinulink KNX

Twisted Pair Devices (KNX-TP)

· System Devices

· Transmitters/Sensors

· Receivers/Actuators

· Communication

Radio-frequency Devices (KNX-RF Compatible)

· Transmitters/Sensors

· Receivers/Actuators

· Communication

· Accesories

	REFERENCE	DESCRIPTION
SYSTEM DEVICES	FA KNT 001	Power supply 640mA
TRANSMITTERS SENSORS	EM KNT 001	4-channels Digital Interface
	EM KNT 002	4-channels Analog/Digital Interface
	DM KNT 001	Flush-ceiling mounted Motion Detector and Daylight control
	DM KNT 002	Wall mounted Motion Detector and Daylight control
	DM KNT 003	Universal box mounted Motion Detector and Daylight control
RECEIVERS ACTUATORS	RE KNT 000	1-channel and 1000W RLC & LED Dimmer
	RE KNT DA1	1-channel DALI Dimmer
	RE KNT 110	1-channel 1/10V Dimmer
	RE KNT RGB	4-channels RGBW LED-strips Dimmer
	IT KNT 001	1-channel Blinds actuator or 2-channels Switch actuator
	IT KNT 004	4-channels Switch actuator
	IT KNT 012	12-channels Switch actuator
COMMUNICATION	CO KNX 002	KNX-RF/KNX Bus Media Coupler
	CO KNT 001	KNX/DINUY Dimmers Interface
	CO KNT 002	USB/KNX Interface Stick
ACCESSORIES	ST KNT 001	Temperature Probe for EM KNT 002. Ø7mm
	ST KNT 002	Temperature Probe for EM KNT 002. Ø5mm

SYSTEM DEVICES

FA KNT 001 - Power Supply 640mA

- EIB/KNX power supply produces and monitors EIB/KNX system voltage. The bus line is decoupled from the power supply with the integrated choke.
- A 30VDC auxiliary voltage is made available via an additional connection terminal.
- This voltage can be used to supply a further bus line (in connection with a separate choke).
- The power supply is connected to the bus line with a bus connection terminal.
- A reset is triggered by pressing the reset push button and lasts 22 seconds (regardless of the duration of the push button action). The bus line disconnected from the power supply and the devices connected to this bus line are returned to their initial state.
- Modular installation device. DIN-rail mounting.
- Some technical features:
  - Power supply: 95VAC ~ 255VAC / 47Hz ~ 63Hz
  - EIB/KNX Voltage: 30VDC +1/-2V SELV
  - Auxiliary Voltage: 30VDC +1/-1V SELV
  - Nominal Current: IBUS + IAUX = 640mA
  - Dimensions: 108 x 90 x 60mm

TRANSMITTERS / SENSORS

EM KNT 001: 4-channels Universal Interface

- Four-channels universal interface for pushbuttons.
- Each channel can be used as Input/Output depending on the setting by the ETS. Each channel can be used as Pushbutton/Switch interface (binary input reading) or outputs (visualization with LED).
- Each channel can work as:
  - Switch: to turn the lighting ON and OFF.
  - Switch + Dimmer: to turn ON/OFF and dim the lighting.
  - Blinds control: to move the blinds/shutters.
  - Scenes control: to save and recover a light scene.
  - Values sending: to send different measures or values, for example, the brightness level, temperature,...
  - Impulse counter: to count the number of operations.
  - LED activation: to inform about an operation.

TRANSMITTERS / SENSORS

EM KNT 002: 4-channels Analog/Digital Sensor

- Analog/digital sensor which offers a large variety of features. Its 4 multi-function inputs can be configured as digital inputs for sensors and potential-free pushbuttons as temperature probes.
- Four inputs can be configured as followed:
  - Binary inputs (switch, pushbutton):
  - Switch: to turn the lighting ON and OFF.
  - Switch + Dimmer: ON/OFF/Dimming the lighting.
  - Blinds control: to move the blinds/shutters.
  - Scenes control: to save and recover a light scene.
  - Values sending: sends different measures or values, for example, the brightness level...
  - Impulse counter: counts the number of operations.
  - Temperature sensor: A temperature probe can be connected to measure the temperature of the room.
- Can be mounted within universal mechanism boxes or junction boxes.
- No external supply required different from Bus. KNX BCU integrated.
- Small size: 38 x 42 x 15mm.

DM KNT 001: Flush-ceiling mounted Motion Detector

- Flush-ceiling mounting KNX motion detector.
- Coverage of 360º and maximum Ø7m at 2.5m high.
- Possibility to adjust the time delay and the brightness setting by ETS or via potentiometers in the device.
- It incorporates as main function the Motion Detection. In addition it is possible to enable these functions:
  - Twilight switch: to switch ON/OFF the lighting depending on the daylight.
  - Constant light control: to switch ON/OFF and Dim the lighting depending on the daylight.
  - Signal monitoring: motion detection without brightness sensor.
  - Brightness sensor: sends the brightness value.
  - Temperature sensor: sends the temperature value.

DM KNT 002: Wall-mounted Motion Detector

- Wall mounted KNX motion detector.
- Coverage of 180º and maximum 10m at 2m high.
- Possibility to adjust the time delay and the brightness setting by ETS or via potentiometers in the device.
- It incorporates as main function the Motion Detection. In addition it is possible to enable these functions:
  - Twilight switch: to switch ON/OFF the lighting depending on the daylight.
  - Constant light control: to switch ON/OFF and Dim the lighting depending on the daylight.
  - Signal monitoring: motion detection without brightness sensor.
  - Brightness sensor: sends the brightness value.
  - Temperature sensor: sends the temperature value.

DM KNT 003: Universal box mounted KNX motion detector.

- Conceived for internal use and mounted onto an universal mechanism box.
- Coverage of 200º and maximum 8m.
- The Lux level and Time delay can be set with the potentiometers, by using the IR remote control (EM MAN DM0) or via ETS3 or later.
- Two PIR sensors and a high resolution lens can detect the smallest movement.
- The built-in light sensor measures the brightness on a continuous basis and compares it to the level preset on the potentiometer (or by means of the remote control EM MAN DM0 or by ETS parameter).
- Depending on the parameterization by ETS, this detector can work as:
  - Motion detection: depending on the movement and the daylight.
  - Twilight switch: Teach-in brightness threshold for daylight-dependent switching.
  - Constant light control: with dimming telegrams.
  - Signal monitoring: motion detection without brightness sensor.
  - Brightness sensor: light sensor without motiondetection.
  - Temperature sensor: sends the temperature value.

> RECEIVERS / ACTUATORS

RE KNT 000: Universal RLC Dimmer

- Universal modular dimming actuator. Leading or trailing edge dimming (R, L or C).
- 1-channel with a maximum load capacity of 1.000W.
- Protected against overloads and short-circuits. Built-in heating protection.
- Anti-panic input for safety systems.
- Programming and commissioning by ETS3 or ETS4.
- Valid for:
  - Incandescence and 230V Halogen lamps.
  - LV Halogen lamps with ferromagnetic transformer.
  - LV Halogen lamps with electronic transformer.
  - Dimmable Compact Fluorescent lamps.
  - Dimmable 230V LED lamps.
  - Dimmable 12V~ LED lamps (electronic transformer).

RE KNT DA1: DALI Dimmer

- One-channel modular DALI dimming actuator (up to 64 equipments).
- Protected against overloads and short-circuits. Built-in heating protection.
- Anti-panic input for safety systems.
- Programming and commissioning by ETS3 or ETS4.

RE KNT 110: 1/10V$_{DC}$ Dimmer

- One-channel modular 1-10V$_{DC}$ dimming actuator (up to 200 equipments).
- Protected against overloads and short-circuits. Built-in heating protection.
- Anti-panic input for safety systems.
- Programming and commissioning by ETS3 or ETS4.

RE KNT RGB: RGBW Dimmer

4-channel modular RGBW dimming actuator.
Up to 16A per channel and 32A maximum.
Modular installation device. DIN-rail mounting. 5-modules wide.
Protected against overload, short-circuits and overheating.
Supplied by 12V or 24V.

IT KNT 001: 1-channel Blinds Actuator or 2-channels Switch

- One-channel blinds/shutters actuator or two-channels switching actuator.
- Up to 16A switching capacity per channel.
- Supplied by the Bus.
- Possibility of manual operation from the device.
- DIN-rain installation. One module width.
- Programmation and commissioning by ET3 or ETS4.

RECEIVERS / ACTUATORS

IT KNT 004 & IT KNT 012


IT KNT 004


IT KNT 012

- Modular switch actuators with 4 or 12 output channels for EIB/KNX Bus installations.
- Programming and commissioning by ETS3 or later.
- It is able to switch 4 or 12 independent electrical AC loads or three-phase loads by the switch actuators with maximum output of 16A per output
- Manual operation on device by Potentiometer (even without bus connection).
- There are same following programming functions for each output:
  - Time function: on/off delay.
  - Staircase function with the warning and adjustable staircase lighting time.
  - Scene, preset control: 8bit/1bit.
  - Logic operation: AND, OR, XOR, gate function.
  - Status response.
  - Forced operation and safe function.
  - Threshold function setup.
  - Control of electro thermal valve function.
  - Selection of preferred status after bus voltage failure and recovery.

COMMUNICATION

CO KNX 002: KNX-RF / KNX-TP Media Coupler

- KNX-RF / KNX-TP media coupler.
- Interface between wireless and twisted-pair devices.
- It allows the transmission of telegrams from the radio modules to KNX Bus devices and vice versa (bidirectional communication).
- Can be used together with devices to control lighting, HVAC, blinds/shutters and main purpose devices.
- Up to 16 bidirectional RF or TP independent channels.
- Commissioning by ETS4.
- Technical specifications:
  - Power supply: BUS KNX 24V$_{DC}$
  - Range: up to 100m (in the free fiel)
  - Frequency: 868,4MHz
  - Dimensions: 78 x 28 x 23mm
  - Channels: 16 bidirectional channels

CO KNT 001: DINUY Dimmers / KNX Interface

- Communication interface between DINUY dimmers and any KNX-TP compatible device.
- At the moment that receives a signal from a sensor transmits the order to the dimmer, being possible to control almost any type of load.
- Compatible with all DINUY modular dimmers. Unidirectional communication.
- It allows switching ON/OFF, Dim and save or recall up to 8 lighting scenes.
- Commissioning by ETS4.
- Technical specifications:
  - Power supply: BUS KNX 24V$_{DC}$
  - Installation: DIN-rail
  - Compatible Dimmers: RE EL2 E00, RE EL5 E00, RE EL5 E01, RE EL5 002, RE EL1 LE1, RE EL5 LE1 & RE EL5 DA1
  - Dimensions: 1 module width

CO KNT 002: USB / KNX Interface Stick

- KNX USB Interface Stick.
- Establishes a bidirectional connection between a PC and the KNX installation bus.
- Galvanic separation from the KNX bus.
- Both ETS versions ETS3 or later and some Visualization tools supports this interface.

ST KNT 001 & ST KNT 002


SE KNT 001


SE KNT 002

- NTC Epoxy Temperature probes that can be connected to the analog/digital inputs of the EM KNT 002 when it is configured as temperature sensor.
- Its function is to measure the temperature of the room.
- High accuracy and stability over a wide temperature range.
- A cable of 3m (ST KNT 001) or 0.5m (ST KNT 002) length is included.

	REFERENCE	DESCRIPTION
TRANSMITTERS SENSORS	EM KNX 002	1-channel Interface por Pushbutton
	PU KNX 001	1-channel Portable Pushbutton
	RC KNX 001	5-channels Remote Control
	SE KNX 001	Temperature sensor
	SE KNX 002	Light sensor for Sun Protection
	SE KNX 003	Door/Window contact
	SE KNX 004	Temperature sensor with Setting Knob
	SE KNX 005	Temperature sensor with Probe
	SE KNX 006	Light sensor
	SE KNX 007	Light sensor with Setting Knob
	DM KNX 001	Flush-ceiling Motion Detector
	DM KNX 002	Wall-mounted Motion Detector
	DP KNX 001	Flush-ceiling Prensence Detector
	AM KNX 001	RF-signals Repeater
RECEIVERS ACTUATORS	IT KNX 001	1-channel Switch or Timer
	MI KNX 001	1-channel Switch or Timer
	PE KNX 001	1-channel Blinds actuator or 2-channels Switch
	TM KNX 001	1-channel Thermostat
	RE KNX LE1	1-channel Dimmer for LED lamps
	RE KNX LE2	1-channel Dimmer for LED strips
	RE KNX LE3	1-channel Dimmer for LED strips
	RE KNX RGB	3-channels Dimmer for RGB LED strips
	RE KNX 010	1-channel Dimmer for 1/10V equipments
	RE KNX DA1	1-channel Dimmer for DALI equipments
	RE KNX 102	Daylight control for 1/10V equipments with Wireless Interface
	RE KNX DA2	Daylight control for DALI equipments with Wireless Interface
COMMUNICATION	CO KNX 001	KNX-RF/DINUY Dimmers Interface
	CO KNX 004	USB/RF Interface Stick & Software
ACCESSORIES	CO REG R09	Remote Control for the adjustment and control of: RE KNX 102 & RE KNX DA2

TRANSMITTERS / SENSORS

EM KNX 002: 1-channel Interface for Pushbutton

- One-channel interface for 2-fold pushbutton. It allows:
  - Switch ON/OFF: Connects or disconnects the linked actuator. ON or OFF is sent depending on which of the two buttons is pressed.
  - Dimmer: Connects, disconnects or dims the linked actuator. It sends ON/OFF or Dimming_Up/Dimming_Down depending on which of the two buttons is pressed the duration of the action.
  - Blinds/Shutters: Controls a linked blind actuator. It sends Step_Up/Step_Down or Move_Up/Move_Down depending on which of the two buttons is pressed and the duration of the action.
  - Scenes: Saves and recovers two different scenes (one scene in each button). It sends Scene_Save or Scene_Load depending on the duration of the action.
- Technical specifications:
  - Installation: Standard mechanism box, behind pushbutton
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 45 x 45 x 12mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1 & RE KNX LE2

TRANSMITTERS / SENSORS

PU KNX 001: 1-channel Pushbutton

- One-channel portable pushbutton. It allows:
  - Switch ON/OFF & Toggle: Connects, disconnects or switches the linked actuator. It sends ON/OFF/ Toggle depending on the configuration.
  - Dimmer: Connects, disconnects or dims the linked actuator. It sends ON/OFF/Toggle or Dimming_ Up/Dimming_Down depending on the configuration.
  - Blinds/Shutters: Controls a linked blind actuator. It sends Step_Up/Step_Down or Move_Up/Move_ Down depending on the configuration.
  - Scenes: Saves and recovers one scene (0...4) depending on the configuration.
- Technical specifications:
  - Installation: Portable or wall fix mounted
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1 & RE KNX LE2

RC KNX 001: 5-channels Remote Control

- Remote control for lighting and shutters/blinds control.
- Five different channels and five different scenes.
- Allows the following functions:
  - Switches ON/OFF and Dims the lighting.
  - Moves Up/Down shutters and blinds.
  - Saves and Recovers Scenes.
- Technical specifications:
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Channels: 5
  - Scenes: 5
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 105 x 50 x 12mm
  - Compatible with: CO KNX 001, IT KNX 001, CO KNX 002, PE KNX 001, MI KNX 001, RE KNX DMS, RE KNX LE1, RE KNX LE2 & RE KNX RGB

SE KNX 001: Temperature Sensor

- Wireless temperature sensor.
- Sends the temperature value in the place where it is installed.
- The temperature value is transmitted whenever one of these three situations happens:
  - Temperature change higher than ±0,5ºC.
  - 15 minutes after the last transmission.
  - Pressing the internal link key.
- Technical specifications:
  - Installation: Portable or wall fix mounted
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: TM KNX 001 & CO KNX 002

TRANSMITTERS / SENSORS

SE KNX 002: Brightness Sensor

- Wireless brightness sensor for heat protection function in windows.
- Sends the Lux value measured across the window.
- Its utility is to send the existing Lux value to the actuators which manage interior shutters.
- It measures the brightness every 2 minutes and behaves differently depending on the value.
- Technical specifications:
  - Installation: Stuck on the window
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: PE KNX 001 & CO KNX 002

SE KNX 003: Door/Window Contact

- Wireless Door/Window contact.
- Detects when a door or window has been opened or closed and sends a telegram.
- Each telegram is sent twice ensuring a highest security in the transmission.
- Technical specifications:
  - Installation: In the frame of a door or window
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: TM KNX 001, IT KNX 001, MI KNX 001 & CO KNX 002

SE KNX 004: Temperature Sensor with Setting Knob

- Wireless temperature sensor with desired temperature control knob.
- Incorporates a wheel to set the desired temperature in the room.
- This sensor sends the following variables:
  - Measured temperature value in this moment.
  - Value set in the sensor.
  - State (Standby or Auto).
- Technical specifications:
  - Installation: Wall fix mounted
  - Power supply: 1x3V battery CR2450. Useful life: >8 years
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 78 x 28 x 23mm
  - Compatible with: TM KNX 001 & CO KNX 002

SE KNX 005: Temperature Sensor with Probe

- Wireless temperature sensor with Probe.
- Sends the temperature value in the place where the probe is installed.
- Specially indicated for underfloor heating installations.
- The temperature is sent every minute.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 45 x 45 x 12mm
  - Compatible with: TM KNX 001 & CO KNX 002

TRANSMITTERS / SENSORS

SE KNX 006: Luminosity Sensor

Wireless Luminosity sensor transmitter for daylight control.
It is designed for the automatic control of lighting. According to the measured luminosity, it controls the light level.
Its utility is to send the existing Lux value to the lighting actuator.
Battery-operated: 2 x 3V Lithium Battery CR2032.
Useful life higher than 8 years.
Compatible with: RE KNX 102, RE KNX DA2 & CO KNX 002.
Dimensions: 78 x 28 x 23mm.

SE KNX 007: Luminosity Sensor with Setting Knob

Wireless Luminosity sensor transmitter with threshold temperature value for daylight control.
It is designed for the automatic control of lighting. According to the measured luminosity and the value set by the control knob, it controls the light level.
Its utility is to send the existing Lux value to the lighting actuator.
Battery-operated: 2 x 3V Lithium Battery CR2032.
Useful life higher than 8 years.
Compatible with: RE KNX 102, RE KNX DA2 & CO KNX 002.
Dimensions: 78 x 28 x 23mm.

DM KNX 001: Flush-ceiling Motion Detector

- Battery-operated wireless PIR motion detector.
- It has brightness sensor, allowing the operation of the detector to daylight.
- As soon as it detects movement, the sensor sends the signal to the linked receiver and its contact keeps closed for the time set in the receiver itself.
- With each motion detection, the device sends a signal to the associated actuator and the time is restarted.
- Technical specifications:
  - Installation: Flush ceiling mounting
  - Power supply: 1x3V Lithium battery. Useful life: >8 years
  - Coverage: Ø6m at 2,4m high
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Compatible with: IT KNX 001, MI KNX 001 & CO KNX 002

DM KNX 002: Surface Motion Detector

- Battery-operated wireless PIR motion detector.
- It has brightness sensor, allowing the operation of the detector to daylight.
- As soon as it detects movement, the sensor sends the signal to the linked receiver and its contact keeps closed for the time set in the receiver itself.
- With each motion detection, the device sends a signal to the associated actuator and the time is restarted.
- Technical specifications:
  - Installation: Wall or ceiling mounting
  - Power supply: 3x1.5V batteries LR03. Useful life: >8 years
  - Coverage: 180º & 10m at 2m high
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Compatible with: IT KNX 001, MI KNX 001 & CO KNX 002

TRANSMITTERS / SENSORS

DP KNX 001: Presence Detector

- Battery-operated wireless PIR presence detector.
- Specially designed for HVAC applications, for the control of the heating or air conditioning.
- The sensor sends two telegrams:
  - 1st “Presence”: With each presence detection, the device sends the telegram to the linked actuator and resets the time. Since last detection the time delay are 15 minutes.
  - 2nd “Not Presence”: When no presence is detected, the detector sends the telegram to the linked actuator every 15 minutes. If still not present after 15 minutes, it repeats sending the telegram. If during these 15 minutes the sensor detects presence sends the “Presence” telegram, triggering the linked actuator.
- Technical specifications:
  - Installation: Flush ceiling mounting
  - Power supply: 1x3V battery CR2032. Useful life: >8 years
  - Coverage: Ø6m at 2,4m high
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Compatible with: TM KNX 001 & CO KNX 002

AM KNX 001: RF-signals Repeater

- RF signals repeater. It enlarges the range between transmitters and actuators.
- Up to 3 consecutive units can be used in the same installation.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 45 x 45 x 12mm
  - Compatible with: any KNX-RF signal

RECEIVERS / ACTUATORS

IT KNX 001: 1-channel Switch

- Wireless one-channel general purpose switch.
- Can be switched receiving RF telegrams or through a wired pushbutton.
- Functions: Switch ON/OFF or Timer.
- Includes the signal repeater function.
- Technical specifications:
  - Installation: DIN-rail
  - Power supply: 230V~ 50Hz
  - Switching capacity: 16A
  - Time delay: 3 seconds ~ 10 minutes
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 1 module width
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001, SE KNX 003, DM KNX 001 & CO KNX 002

MI KNX 001: 1-channel Switch

- One-channel switch actuator.
- It can work as a switch (ON / OFF) or timer, depending on the function selected at the device.
- It can be activated by a wireless sensor.
- Includes the signal repeater function.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Switching capacity: 16A (free-voltage contact)
  - Time delay: 3 seconds ~ 10 minutes
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 55 x 53 x 34mm
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001, SE KNX 003, DM KNX 001 & CO KNX 002

RECEIVERS / ACTUATORS

PE KNX 001: 1-channel Blinds Actuator or 2-channels Switch

- One-channel blinds/shutters actuator or two-channel switch actuator.
- Two auxiliary inputs which allow controlling by wired pushbuttons.
- It can be activated by a wireless sensor or by two wired pushbuttons.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Switching capacity: 16A per channel
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 107 x 53 x 34mm
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002

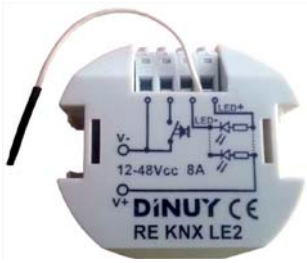
TM KNX 001: 1-channel Thermostat

- Wireless one-channel Thermostat for HVAC control.
- Must be linked to any RF temperature sensor.
- The desired temperature can be set on the thermostat through a control knob.
- Every time it receives a signal of temperature from the sensor it will be compared with the already set in the thermostat and will act accordingly on its relay.
- It also can receive telegrams from door/window contacts or presence detectors.
- Technical specifications:
  - Installation: DIN-rail
  - Power supply: 230V~ 50Hz
  - Switching capacity: 16A
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 1 module width
  - Compatible with: SE KNX 001, SE KNX 003, SE KNX 004, DP KNX 001 & CO KNX 002

RE KNX LE1: 1-channel Dimmer for LED Lamps

- 1-channel wireless IGBT Universal Dimmer.
- Leading or Trailing edge dimming technology: Incandescent and 230V Halogen lamps, 12V Halogen lamps with inductive or electronic transformer, 230V and 12V LED lamps.
- It can be controlled by wired pushbuttons and/or remote control.
- Includes the signal repeater function.
- Technical specifications:
  - Power supply: 230V~ 50Hz
  - Load capacity: Up to 100W with 230V LED lamps
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 55 x 53 x 34mm
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002

RE KNX LE2: 1-channel Dimmer for LED Strips



- 1-channel wireless Dimmer for LED Strips.
- Pulse Width Modulation (PWM) dimming technology.
- It can be controlled by wired pushbuttons and/or remote control.
- Includes the signal repeater function.
- Technical specifications:
  - Power supply: 12VDC ~ 48VDC
  - Load capacity: 8A
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 55 x 53 x 34mm
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002

RECEIVERS / ACTUATORS

RE KNX LE3: 1-channel Dimmer for LED Strips

- Dimmer for 12VDC ~ 48VDC LED strips.
- Pulse Width Modulation (PWM) dimming technology.
- Control:
  - Wireless (KNX-RF):
    - Remote control: RC KNX 001.
    - Transmitter for pushbutton: EM KNX 002.
    - Any other compatible KNX-RF transmitter.
- Load capacity: 4A
- Installation into universal box.
- Protected against overloads and short-circuits.

RE KNX RGB: 3-channels Dimmer for RGB LED Strips

- 3-channels wireless Dimmer for RGB LED Strips.
- Pulse Width Modulation (PWM) dimming technology.
- It can be controlled by remote control.
- Includes the signal repeater function.
- Technical specifications:
  - Power supply: 12VDC ~ 48VDC
  - Switching capacity: 5A per channel
  - 3 Output channels: R, G & B.
  - 4 Working channels: R, G, B & RGB.
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 107 x 53 x 34mm
  - Compatible with: RC KNX 001 & CO KNX 002

RE KNX 010 & RE KNX DA1: 1/10VDC or DALI Wireless Dimmers

RE KNX 010

- 230V-operated 1-channel Dimmer for 1/10V Ballasts.
- Up to 100 Ballasts or LED Drivers can be controlled by only one dimmer.
- It can be controlled by wired pushbuttons and/or wireless transmitter.
- In addition, the dimmer can act as RF retransmitter.
- Junction box mounting. Dimensions: 55 x 53 x 34mm.
- Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002.

RE KNX DA1

- 230V-operated 1-channel Dimmer for DALI Ballasts.
- Up to 64 Ballasts or LED Drivers can be controlled by only one dimmer.
- It can be controlled by wired pushbuttons and/or wireless transmitter.
- In addition, the dimmer can act as RF retransmitter.
- Junction box mounting. Dimensions: 55 x 53 x 34mm.
- Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002.

RE KNX 102 & RE KNX DA2: 1/10VDC / DALI Wireless Daylight Controls

- The user selects the desired brightness level and the system dims the lighting in order to maintain it. If the measured level is higher than the selected one, the light level from the lamps will be decreased until they are switched off if the daylight is enough. If the daylight is lower than the selected one, the brightness level of the lamps will be increased.
- The great advantage of this device is that the light sensor is wireless (SE KNX 006, SE KNX 007 or via KNX Bus using the CO KNX 002), so it can be fixed on the site (desktop) where is desired to be measured the brightness. This allows optimal results.
- The brightness threshold can be set by wireless sensor (SE KNX 007), remote control (CO REG R09) or by the KNX Bus using the CO KNX 002.
- The system can work with or without motion detection function (wired: DM SEN T03 / wireless: DM KNX 001 or DM KNX 002). As soon as any movement is detected, the lighting fixtures will be on if the daylight is under the set one. As soon as the time delay from the motion detection function elapses the lamps will be off.

COMMUNICATION

CO KNX 001: DINUY/RF Interface

- Communication Interface between DINUY dimmers and wireless compatible sensors.
- At the moment that receives a RF signal from a sensor it transmits the order to the dimmers, being possible to regulate any type of load, thanks to the wide range of available dimmers.
- Includes the signal repeater function.
- Technical specifications:
  - Installation: DIN-rail
  - Power supply: 230V~ 50Hz
  - Radiofrequency: 868,4MHz
  - Range: Up to 100m (in the free field)
  - Dimensions: 1 module wide
  - Compatible with: EM KNX 002, PU KNX 001, RC KNX 001 & CO KNX 002
  - Compatible Dimmers: RE EL2 E00, RE EL5 E00, RE EL5 E01, RE EL5 002, RE EL1 LE1, RE EL5 LE1 & RE EL5 DA1

CO KNX 004: USB/RF Interface Stick + Software

- KNX-RF USB Interface Stick with Visualization and Control Software (Virtual Remote Control).
- Establishes a bidirectional communication between a PC and the KNX-RF installation and allows the control of lighting, HVAC or blinds/ shutters without wires.
- Up to 16-channels and 8 scenes.

ACCESORIES

CO REG R09: RF Remote Control

- RF Remote control for daylight control actuators (RE KNX 102 or RE KNX DA2)
- Its utility is to fix the desired Lux level on the desktop

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