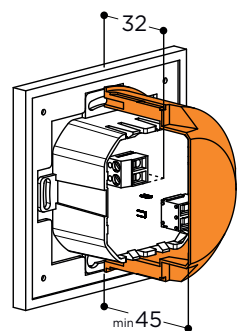
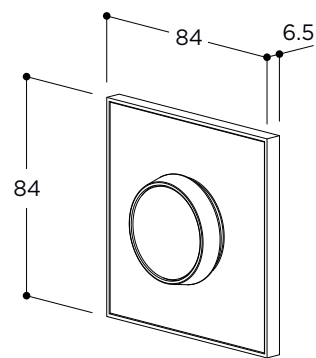


Name Dimmer 1-10V

Ref



Dm	OD				02
PRODUCT	MODULE (MAX 4 MODULES)				COLOR

EXAMPLE CODE DmOD01: Dimmer 1-10V Matt White RAL9010

Product	Code
Dimmer	Dm
Module	Code
1-10V	OD
Color	Code
Matt White RAL9010	02
Nickel	09
Textured Black	14
Bronze Antique	17
Stainless Steel + Textured Black	30
Matt White + Textured Black	31
Textured Black + Nickel Knurl	32
Brushed Brass + Textured Black	33
Cu29 + Textured Black	34
Textured Black + Brass	36
Brushed Brass + Brass Knurl	37
Stainless Steel + Nickel Knurl	38
Bronze Antique + Brass Knurl	39
Brass Antique	40
Gunpowder Black	41
Tin Antique	42
Nickel + Nickel Knurl	43

*2mm for Select, 0mm for Squares

NL Installatie- en onderhoudsrichtlijnen met betrekking tot de fabrieksgarantie

- De plaatsing, de aansluiting en het uittesten van dit toestel dient steeds te gebeuren door een erkend elektro-installateur.
- Dit toestel moet geïnstalleerd, verbonden en getest worden volgens de nationaal geldende reglementen op de elektrische installaties.
- Deze technische bijsluiter dient te worden beschouwd als een onderdeel van de algemene verkoopsvoorwaarden van Lithoss nv/sa.
- De elektro-installateur is verantwoordelijk voor het gebruik van compatibele apparaten die voldoen aan de geldende CE en IEC normen.
- Gebruik steeds de 'tool' voor het verwijderen van de 'Cover Plate' (afdekplaat).
- Reinig het toestel enkel met een zachte en licht vochtige doek zonder reinigingsmiddel.
- Leg altijd eerst de electriciteit af alvorens te plaatsen en installeren !

FR Instructions d'installations et d'entretien à respecter vis-à-vis de la garantie d'usine.

- Le placement, le raccordement et l'essai de cet appareil doivent toujours être effectués par un électricien / installateur agréé.
- Cet appareil doit être installé, branché et testé suivant le règlement national sur les installations électriques en vigueur.
- Ce manuel d'installation technique représente une partie des conditions générales de vente de Lithoss nv/sa.
- L'installateur est responsable pour l'usage des produits compatible, qui sont conformes aux normes CE et IEC en vigueur.
- Utilisez toujours le 'tool' pour l'écartement du 'Cover Plate' (plaque de couvercle).
- Nettoyez l'appareil uniquement avec un chiffon doux et légèrement humide sans détergent.
- Toujours débrancher l'électricité AVANT d'installer !

EN Installation and maintenance instructions associated to the manufacturer's warranty.

- The installation, connection and testing of this device should always be performed by a recognized electrician / installer.
- This device needs to be installed, connected and tested according to the official national instruction guide for electrical installations.
- This technical manual is to be considered as an additional term to the general sales conditions of Lithoss nv/sa.
- The installer is responsible for the use of compatible products which meet the CE and IEC rules.
- Always use the 'tool' for the removal of the 'Cover plate'.
- Clean the device only with a soft and slightly wet piece of cloth without any detergent.
- Always switch off the electricity BEFORE installation !

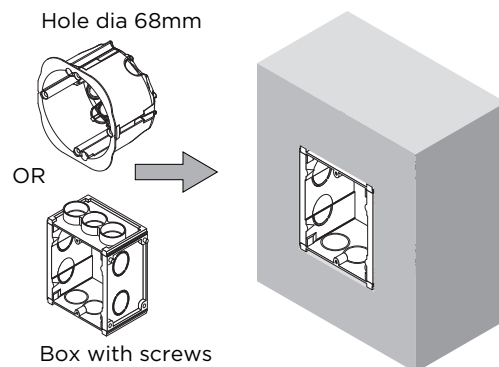
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- Die Montage, der Anschluß und das Austesten des Gerätes soll immer von einem zertifizierten electro-Installateur ausgeführt werden.
- Das Gerät muß installiert, angeschlossen und getestet werden nach der allgemeinen nationalen Richtlinien über die elektrische Installationen.
- Diese technische Gebrauchsanweisung gehört zu den allgemeinen Verkaufsbedingungen von Lithoss nv/sa.
- Der electro-Installateur is verantwortlich für das Verwenden von CE und IEC kompatible Produkte.
- Benutzen Sie immer das 'tool' für den Abbau der 'Cover Plate' (Deckplatte).
- Das Gerät nur reinigen mit einem zarten und leicht feuchten Lappen ohne Reinigungsmittel.
- Immer die Elektrizität ausschalten bevor Installation !

Installation

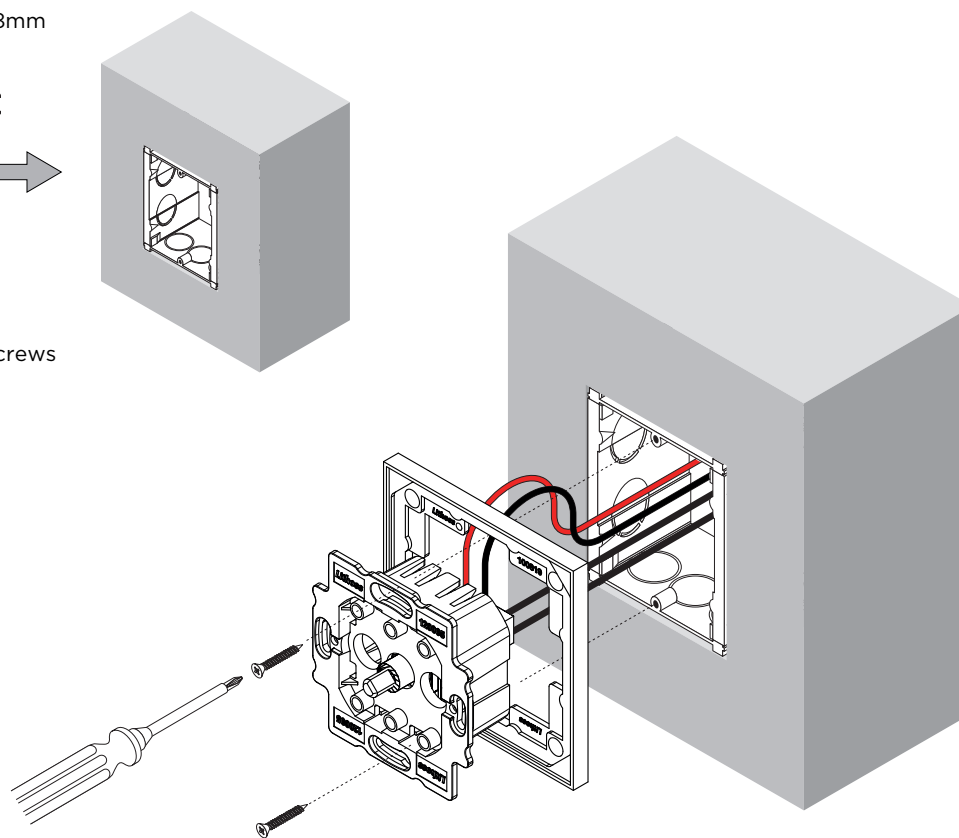
1

RECESSED WALL BOX INSTALLATION



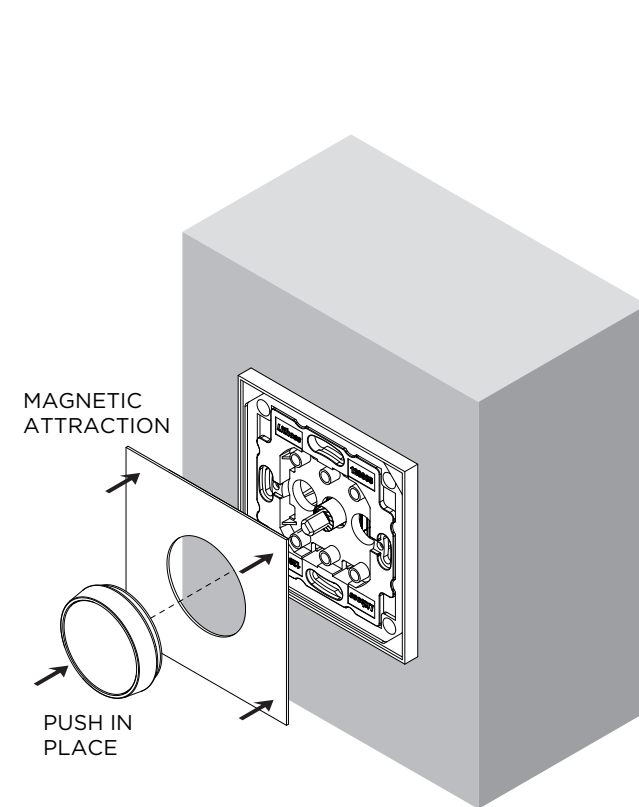
2

FIX FRAME TO WALL OR JUNCTION BOX WITH 2 SCREWS (USE HOLES ON VERTICAL AXIS)



3

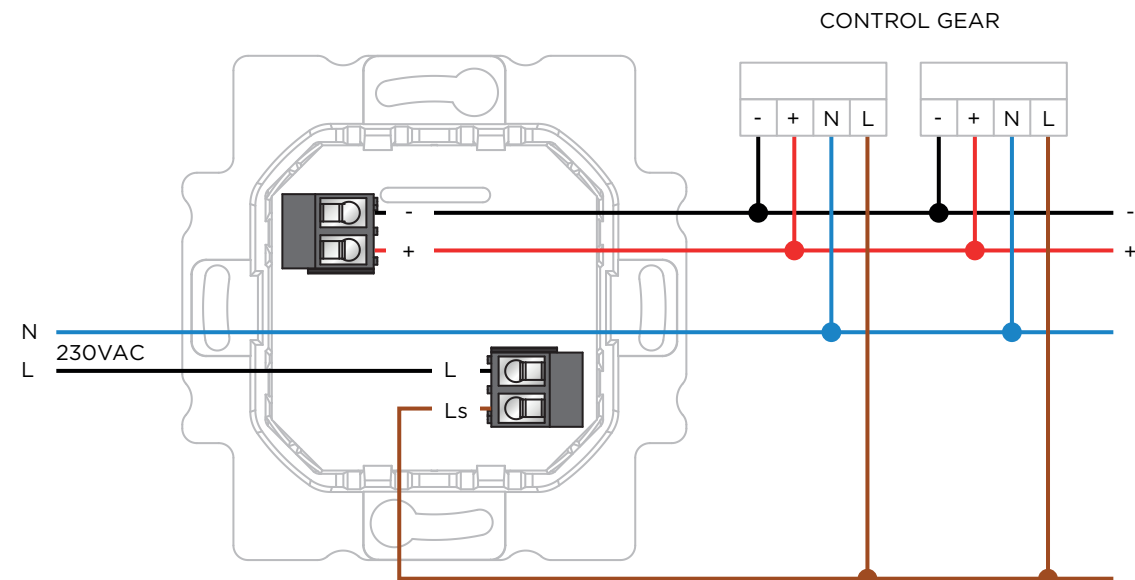
PUT COVERPLATE AND DIMMER INTO PLACE PAY ATTENTION TO POSITION DIMMER



Specifications

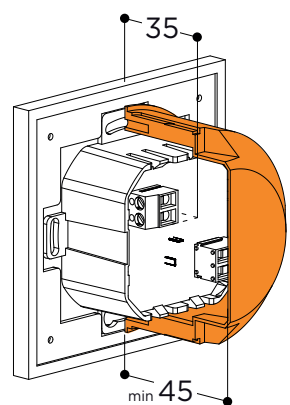
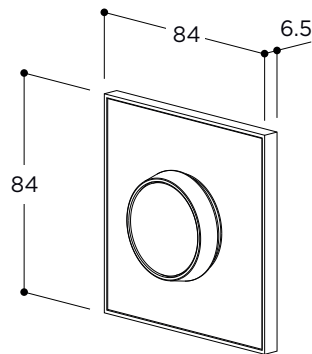
Switching capacity	2A
Dimmer type	Rotary switch
Operating temperature	-25°C/+85°C
Dim curve	Linear
Switch function	OFF/ON

Wiring diagram



Name Dimmer KNX

Ref



Dm OK 02

PRODUCT MODULE COLOR

Product	Code
Dimmer	Dm
Module	Code
KNX	OK
Color	Code
Stainless Steel	01
Matt White RAL9010	02
Brushed Brass	06
Nickel + Texture Black	09
Textured Black	14
Tin Antique	19
Brass Antique	20
Copper	29
Textured Black + Nickel	32
Matt White + Textured Black	35
Brushed Brass + Brass Knurl	37
Stainless Steel + Nickel Knurl	38
Bronze Antique + Brass Knurl	39
Gunpowder Black (Fusain)	41
Nickel + Nickel Knurl	43
Texture Black + Brass Knurl	46

NL Installatie- en onderhoudsrichtlijnen met betrekking tot de fabrieksgarantie

- De plaatsing, de aansluiting en het uittesten van dit toestel dient steeds te gebeuren door een erkend elektro-installateur.
- Dit toestel moet geïnstalleerd, verbonden en getest worden volgens de nationaal geldende reglementen op de elektrische installaties.
- Deze technische bijsluiter dient te worden beschouwd als een onderdeel van de algemene verkoopvoorwaarden van Lithoss nv/sa.
- De elektro-installateur is verantwoordelijk voor het gebruik van compatibele apparaten die voldoen aan de geldende CE en IEC normen.
- Gebruik steeds de 'tool' voor het verwijderen van de 'Cover Plate' (afdekplaat).
- Reinig het toestel enkel met een zachte en licht vochtige doek zonder reinigingsmiddel.
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- Utilisez toujours le 'tool' pour l'écartement du 'Cover Plate' (plaque de couvercle).
- Nettoyez l'appareil uniquement avec un chiffon doux et légèrement humide sans détergent.
- Toujours débrancher l'électricité AVANT d'installer!

EN Installation and maintenance instructions associated to the manufacturer's warranty.

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- Always use the 'tool' for the removal of the 'Cover plate'.
- Clean the device only with a soft and slightly wet piece of cloth without any detergent.
- Always switch off the electricity BEFORE installation!

DE Montage und Unterhal Instruktionen zu beachten mit Bezug auf der Fabrikgarantie.

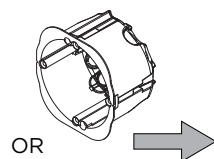
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- Diese technische Gebrauchsanweisung gehört zu den allgemeinen Verkaufsbedingungen von Lithoss nv/sa.
- Der electro-Installateur ist verantwortlich für das Verwenden von CE und IEC kompatible Produkte.
- Benutzen Sie immer das 'tool' für den Abbau der 'Cover Plate' (Deckplatte).
- Das Gerät nur reinigen mit einem zarten und leicht feuchten Lappen ohne Reinigungsmittel.
- Immer die Elektrizität ausschalten bevor Installation!

Installation

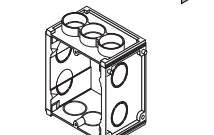
1

RECESSED WALL BOX INSTALLATION

Hole dia 68mm



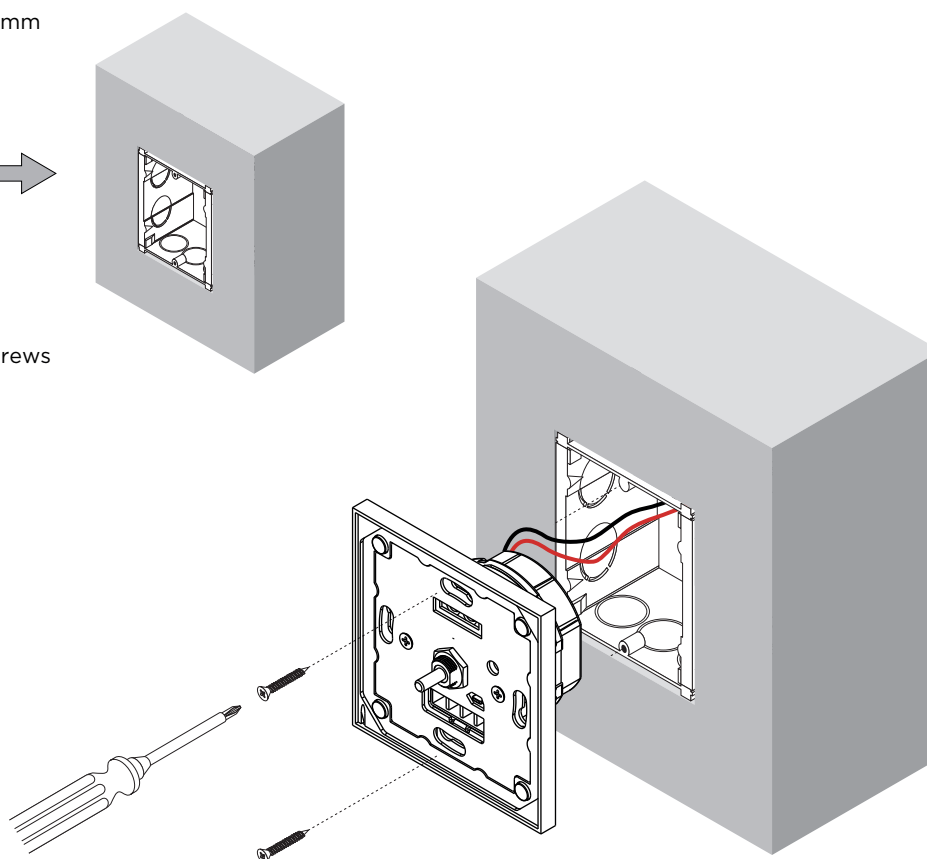
OR



Box with screws

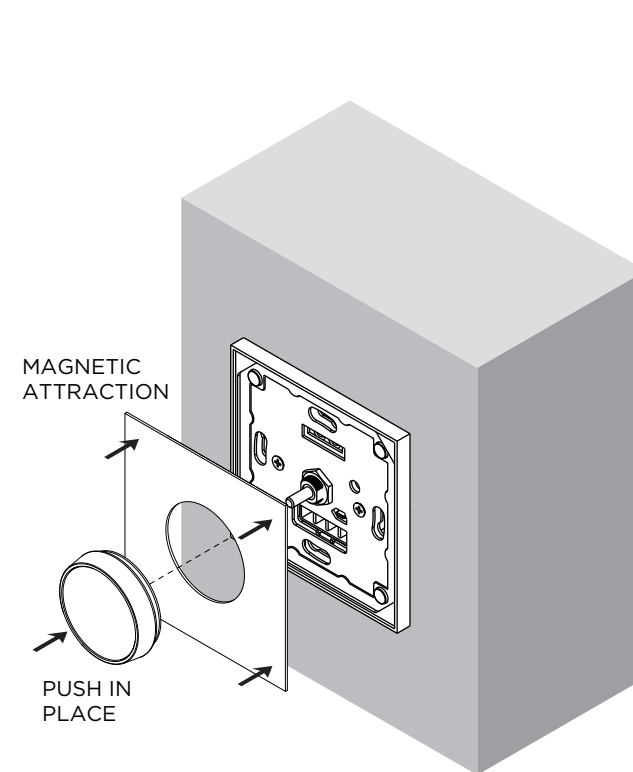
2

FIX FRAME TO WALL OR JUNCTION BOX WITH 2 SCREWS (USE HOLES ON VERTICAL AXIS)



3

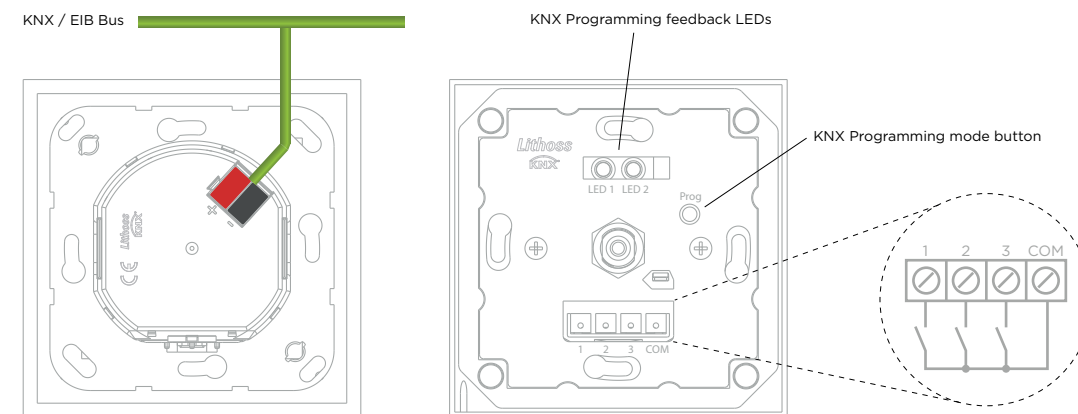
PUT COVERPLATE AND DIMMER INTO PLACE PAY ATTENTION TO POSITION DIMMER



Specifications

KNX medium	TP 1
Commissioning mode	S-mode
Rated voltage KNX	DC 21-32V
Safety class	III
Connection type bus	Connection terminal
Current consumption	
KNX	max 12,5 mA
Energy saving mode	3 mA
Push button interface	
Poll voltage	20 V
Cable length	max 5m
dimmer type	rotary switch
Ambient conditions	
Ambieant temperature	-25°C/+55°C
Storage/transport temperaure	-25°C/+55°C
Relative Humidity	5-93%

Wiring diagram



Connecting and fitting the device

- Connect bus line with terminal to bus connection (1).
- If necessary, connect potential-free contacts to the push-button interface (5) between terminals COM and 1...3 (figure 2).
- Install the device (2) in the appliance box.
- Mount the frame (6), the central plate (7) and the control button (8).

Safety Instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock on the KNX installation. Do not connect any external voltage to the inputs. Doing so may damage the device(s), and the SELV potential on the KNX bus line will no longer be available.

These instructions are an integral part of the product, and must remain with the end customer.

Functions

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The function of this device depends upon the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database. Planning, installation and commissioning of the device are carried out with the aid of KNX-certified software. The latest versions of product database and the technical descriptions are available on our website.

Intended use

- Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Installation in appliance box to DIN 49073

Product Characteristics

- Operation by turning or pressing the control button
- Integrated push-button interface: Three binary inputs for potential-free contacts
- Functions for control button and push-button interface: Switching, dimming, shutter control, value transmitters, calling up moods, etc.
- Acoustic signal transmitter, e.g. for status, operation or alarm message, ringtone or audible alert
- Alarm function, optional with confirmation by pressing
- Convenience function for dimming and value adjustment: Preselection of the increment by fast turning
- Energy saving mode
- Separated locking functions for control button and push-button interface

Energy Saving Mode


The device switches to the energy saving mode after a preset time or by an external telegram. In the energy saving mode the signal transmitter and push-button interface are without any functions. During operation, the energy saving mode is exited.

-  Operations from the energy saving mode are executed immediately.

Operation

The switching, dimming, blind, scene extension unit or value transmitter functions are available independent of each other for printing or turning the control button.

Press the control button

- Switch: Short press on the control button.
-  A long push-button action can be used for operation of a second function.
- Dim: Long press on the control button.
- Move Venetian blind: Long press on the control button.
- Stop or adjust Venetian blind: Short press on the control button.
- Call up light scene: Short press on the control button.
- Save light scene: Long press on the control button.
- Call up value: Short press on the control button.
- Adjusting value: Press control button for a long time.

Press the control button

- Switching: Turn to the right or left.
- Dimming brighter: Turn to the left or right.
- Dimming darker: Turn to the left or right.
- Moving blind upwards: Turn to the left or right.
- Moving blind downwards: Turn to left or right.
- Calling up light scene: Turn to the left or right.
- Calling up or adjusting values: Turn to the left or right.

Commissioning

Load the address and the application software

- Switch on the bus voltage
- Press the programming button (4).
The device indicates the programming mode with a pulsating tone (0.5 Hz).
- Assign physical address.
Signal tone becomes silent.
- Write the physical address on the device label.
- Load the application software into the device.

Troubleshooting

LED (3) flash alternately, no operation is possible

No application software is loaded.
Load the application software.

Push button interface and signal transmitter show no function

Energy saving mode active.
Deactivate energy saving mode, depending on the setting e.g. by operation on the setting wheel or by external presetting.
If the energy saving mode blocks other device functions: Check parameter setting and adjust if necessary.

Downloads

KNX parameter handbook:
http://www.lithoss.be/images/uploads/pdf/LITHOSS_KNX_DIMMER_PARAMETER_HANDBOOK_v1.pdf

ETS file dimmer KNX:
www.lithoss.be/images/uploads/pdf/Lithoss_KNX_DIMMER_DE_EN_FR_NL.zip



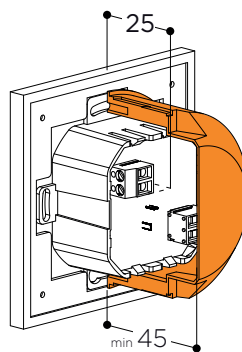
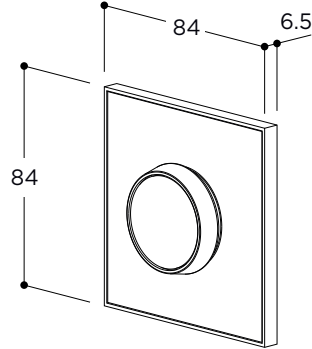
DANGER!

Electrical shock on contact with live parts in the installation environment. Electrical shocks can be fatal.
Before working on the device, disconnect the power supply and cover up live parts in the working environment.

CUSTOMER SERVICE
info@lithoss.com
www.lithoss.com
+32(0)56481598

Name Dimmer Universal LED

Ref



Dm **OP** **XX**

PRODUCT MODULE COLOR

Product	Code
Dimmer	Dm
Module	Code
Universal LED	OP
Color	Code
Stainless Steel	01
Matt White RAL9010	02
Brushed Brass	06
Nickel + Texture Black	09
Textured Black	14
Tin Antique	19
Brass Antique	20
Copper	29
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Gunpowder Black (Fusain)	41
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- Toujours débrancher l'électricité AVANT d'installer!

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- The installer is responsible for the use of compatible products which meet the CE and IEC rules.
- Always use the 'tool' for the removal of the 'Cover plate'.
- Clean the device only with a soft and slightly wet piece of cloth without any detergent.
- Always switch off the electricity BEFORE installation!

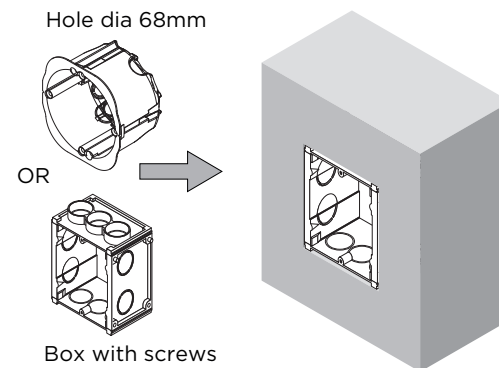
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- Das Gerät muß installiert, angeschlossen und getestet werden nach der allgemeinen nationalen Richtlinien über die elektrische Installationen.
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- Der elektro-Installateur ist verantwortlich für das Verwenden von CE und IEC kompatible Produkte.
- Benutzen Sie immer das 'tool' für den Abbau der 'Cover Plate' (Deckplatte).
- Das Gerät nur reinigen mit einem zarten und leicht feuchten Lappen ohne Reinigungsmittel.
- Immer die Elektrizität ausschalten bevor Installation!

Installation

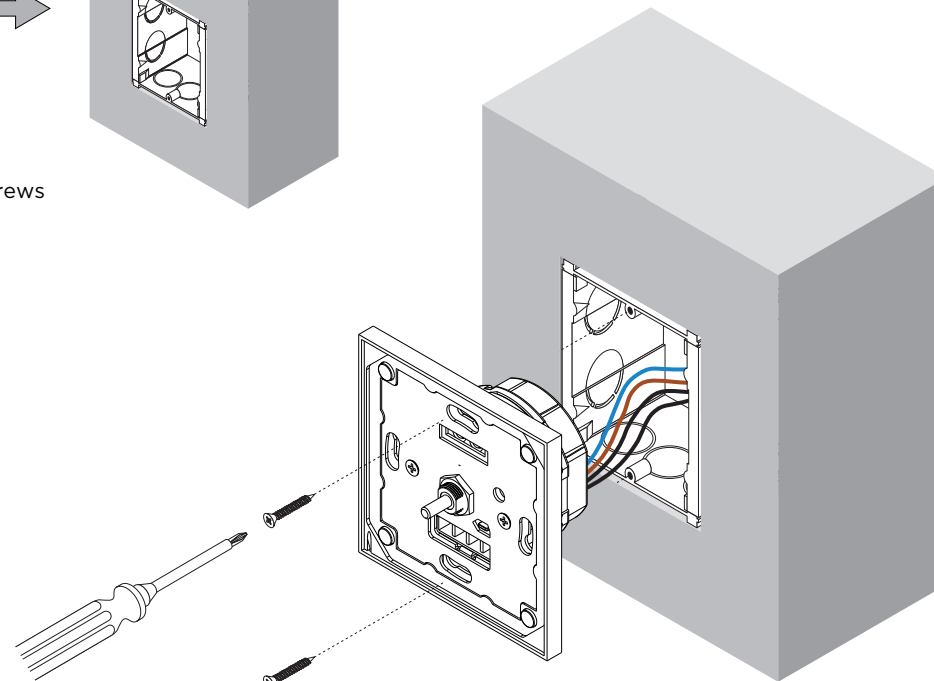
1

RECESSED WALL BOX INSTALLATION



2

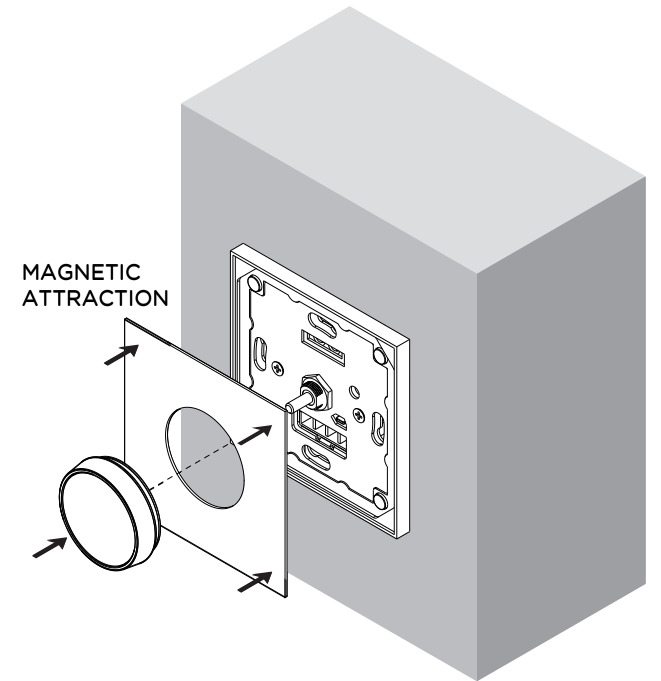
FIX FRAME TO WALL OR JUNCTION BOX WITH 2 SCREWS (USE HOLES ON VERTICAL AXIS)



(Factory pre-assembled)

3

MOUNT COVER PLATE ON FRAME AND DIMMER KNOB ON THE SHAFT

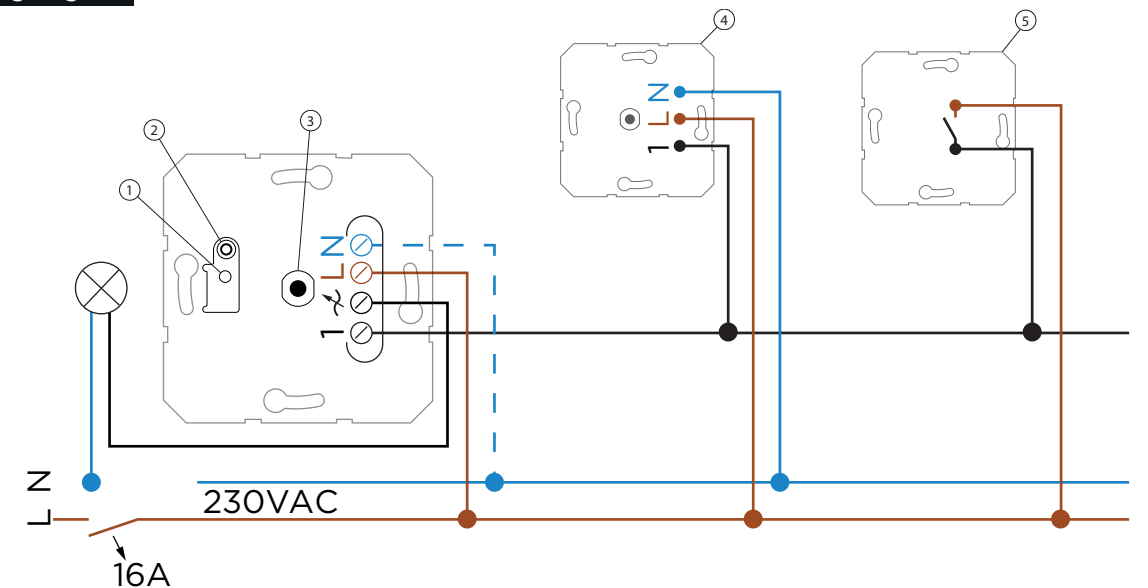


Specifications

Rated voltage	AC 230V
Mains frequency	50-60 Hz
Standby power	0,35 W
Power loss	4 W
Ambient temperature	-5°C/+45°C
Mixed load:	
Ohmic-capacitive	20-420 W
Capacitive-inductive	not permitted
Ohmic-inductive	20-420 VA
Ohmic and HV Lamp	typically 3-100 W
Ohmic and compact fl lamp	typically 3-100 W

W	W/VA	W	W/VA
20...420	20...420	3...100	20...100

Wiring diagram



① Display LED of the dimming principle

② Button dimm-mode

③ Rotary axle

④ Rotary dimmer, 3-wire extension

⑤ push-button, NO contact, Lithoss Select IT

Safety Instructions

Electrical devices may only be mounted and connected by electrically skilled persons.


Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the devise or load. Device is not suitable for disconnection from supply voltage. The load is not electrically isolated from the mains even when the device is switched off. Risk of destruction if the set operating mode and load type do not match. Set correct operating mode when connecting or exchanging the load.

Fire hazard. For operation with inductive transformers, each transformer must be fused on the primary side in accordance with the manufacturer's instructions. Only safety transformers according to EN 61558-2-6 may be used.

These instructions are an integral part of the product, and must remain with the end customer.

Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means LED
- Operation without neutral conductor possible
- Switch-on via bulb-preserving soft start
- Switch on with last saved brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Connection of extensions possible
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Hotel card function
-  Power extension possible by means of power boosters.

Operation

Switching light or adjusting brightness

Operation on the main device or a rotary dimmer extension is identical.

- Press the setting knob briefly: Light switches on or off (Figure 1).
- Turn the setting knob quickly: Brightness is changed quickly (Figure 1).
- Turn the setting knob slowly: Brightness is changed slowly (Figure 1).

Switching the light on at minimum or maximum brightness

- Turn the setting knob by a quarter turn, then press the setting knob briefly: Light switches on at minimum brightness or maximum brightness (Figure 2).

Save switch-on brightness

- Adjust the brightness.
- Press the setting knob for longer than 4 seconds. Switch-on brightness is saved. The lighting switches briefly off and on again as confirmation.

Delete switch-on brightness

- Press the setting knob briefly: Light switches on at the saved switch-on brightness.
- Press the setting knob for longer than 4 seconds. The switch-on brightness is deleted. Switching on takes place at the last brightness value set. For confirmation, the light is switched off briefly and switched on again.

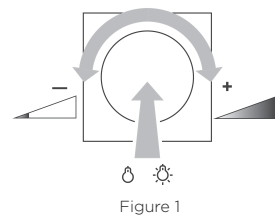


Figure 1

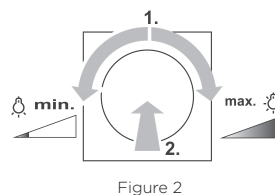





Figure 2

Operation



Operation using 2-wire or 3-wire extension with button cover or push-button

- Press briefly: Light switches on or off.
- Press long with the light switched off: Switch on at minimum brightness.
- Press long with the light switched on: Set brightness. The dimming operation stops at the appropriate end value.
-  Push-button: The dimming direction is changed with each new long actuation.
- Press the button cover over the entire surface for longer than 4 seconds with the light switched on: Save switch-on brightness. The lighting switches briefly off and on again as confirmation.

-  On saving the same brightness again, the switch-on brightness is deleted. Switching on takes place at the last brightness value set. For confirmation, the light is switched off briefly and switched on again.
-  Push-button: Switch-on brightness cannot be saved or deleted.

Fitting and electrical connection

See page one for the wiring diagram.

-  Connect 600 Watt LED lamps or compact fluorescent lamps at most per 16 ampere circuit breaker. Connect 600 W LED lamps or compact fluorescent lamps at most per 16 A circuit breaker. When connecting transformers, observe the data of the transformer manufacturer.
-  Our dimmers take into account the different electronic characteristics of most LED lamps found on the market. However, it cannot be guaranteed that in individual cases the desired results may not be achieved.

Operation without neutral conductor possible.

Only connect illuminated push buttons if they have a separate N terminal.

-  The light can be switched by briefly pressing the Dimm-Mode button (1).

Reset the overheating protection / short-circuit protection

If the electronic overheating or short-circuit protection has been activated, separate the dimmer from the grid.

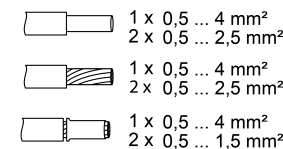



Figure 4: Clampable conductor cross-section

Commissioning


Operating mode: Universal, R,L,C,LED (factory setting)

- Automatic calibration to the load, dimming principle, trailing edge phase control, leading edge phase control or LED leading edge phase control

Operating mode: LED trailing edge phase control, LED

- Loads can be dimmed according to the trailing edge phase control principle.
-  The connection of inductive transformers is not permitted.



Operating mode: LED leading edge phase control, LED

- Loads can be dimmed according to the leading edge phase control principle.
-  The connection of inductive transformers is not permitted.

Setting operating mode and minimum brightness

Precondition: Load is switched off.

- Press the button Dimm-Mode (1) until LED (2) lights up.
- Keep briefly pressing button Dimm-Mode (1) until the necessary operating mode is selected. The LED (2) lights up in the colour of the selected operating mode (Figure 5).
- Press the button Dimm-Mode (1) for longer than 1 second and keep it pressed. LED (2) flashes. Light switches on at the lowest brightness and slowly becomes brighter.

-  When changing the operating mode to universal, the calibration to the load is first performed. Keep the Dimm-Mode button (1) pressed.
-  In the lowest dimming position, a lamp light must be visible.

- Once the desired minimum brightness is reached, release the button Dimm-Mode (1). LED (2) lights up, operating mode and minimum brightness are set.
- Optionally change the minimum brightness again: Press the button Dimm-Mode (1) for longer than 1 second. Light switches again to the lowest brightness and slowly becomes brighter.
- Save the settings: Press the button Dimm-Mode (1) for less than 1 second or do not press for 30 seconds. The LED (2) goes out.



LED	Dimm-Mode
GN (grün, green)	R,L,C,LED
RD (rot, red)	LED 
BU (blau, blue)	LED 

Figure 5: Assignment of LED Colour to dimming principle



DANGER!

Electrical shock on contact with live parts in the installation environment. Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment.

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Commissioning

Switching the hotel card function on or off

Hotel card function, after mains voltage return the dimmer switches on the light with the stored switch-on brightness or maximum brightness. Only the operating modes LED trailing edge phase control or LED leading edge phase control are available.

Precondition: Load is switched off.

- Press and hold down the rotary axle (3) until the setting was made.
- Press the Dimm-Mode button (1) for more than 4 seconds.
LED (2) flashes green or red.
- Press button Dimm-Mode (1) briefly.
LED (2) flashes red. The hotel card function is switched on. LED (2) flashes green. The hotel card function is switched off.
- Release the rotary axle (3).
The setting is saved. For confirmation, the light is briefly switched on and switched off again.

i If the Universal operating mode was set before the hotel card function was switched on, the system automatically switches to LED trailing edge phase control or LED leading edge phase control. If the LED trailing edge phase control or LED leading edge phase control operating mode was set, it is retained. If the hotel card function is switched off, the last set operating mode is retained.

Technical data

Rated voltage	AC 230V
Mains frequency	50-60 Hz
Standby power	0,35 W
Power loss	4 W
Ambient temperature	-5°C/+45°C
Connected load at 25 °C	See figure below





 W 20...420	 W/VA 20...420	 W 3...100	 W/VA 20...100
---	--	--	--

Figure 6

i Operating mode { : Max. connected load for LED lamps typ. 3 ... 200 W, electronic transformers with LV-LED typ. 20 ... 200 W.

Mixed load

Ohmic-capacitive	20-420 W
Capacitive-inductive	not permitted
Ohmic-inductive	20-420 VA
Ohmic and HV Lamp	typically 3-100 W
Ohmic and compact fl lamp	typically 3-100 W

- i** Power specifications including transformer dissipation.
- i** Operate inductive transformers with at least 85% nominal load in the Universal operating mode.
- i** Ohmic-inductive mixed load: Max. 50% proportion of ohmic load. Otherwise, an incorrect measurement is possible.
- i** Operation without neutral conductor: Minimum load 50 W. Does not apply to loads with HV-LED and compact fluorescent lamps.

Power reduction	
Per 5°C in excess of 25°C	-10%
When installed in wooden or dry construction walls	-15%
When installed in multiple combinations	-20%
Number of extension units	
3-wire, rotary dimmer extension	10
2-wire, push-button	unlimited
Total line length	
Power cable	maximum 100m
Extension	maximum 100m



DANGER!
Electrical shock on contact with live parts in the installation environment.
Electrical shocks can be fatal.
Before working on the device, disconnect the power supply and cover up live parts in the working environment.

Troubleshooting

Connected LED lamps or compact fluorescent lamps switch off in the lowest dimming position or flicker.

Cause: The set minimum brightness is too low.
Increase minimum brightness.

Connected lamps do not switch on in the lowest dimming position or only after a delay.

Cause: The set minimum brightness is too low.
Increase minimum brightness.

Connected LED lamps or compact fluorescent lamps flicker or buzz, no correct dimming possible, device buzzes.

- Cause 1: Lamps are not dimmable.
Check manufacturer's instructions.
Exchange lamps for another type.
- Cause 2: Operating mode (dimming principle) and lamps do not optimally match.
Check operation in another operating mode, reduce connected load as well if necessary.
Set the operating mode manually.
Exchange lamps for another type.
- Cause 3: Dimmer is connected without neutral conductor.
Connect neutral conductor if possible, otherwise exchange lamp for another type.

Connected LED lamps or compact fluorescent lamps in the lowest dimming position are too bright; dimming range is too small.

- Cause 1: The set minimum brightness is too high.
Reduce minimum brightness.
- Cause 2: Operating mode (dimming principle) does not optimally match the connected HV-LED lamps.
Check operation in another operating mode, reduce connected load as well if necessary set the operating mode manually.
Exchange HV-LED lamps for another type.

The dimmer switches the load off briefly and then on again.

Cause: short-circuit protection has tripped but now there is no longer a fault.

The dimmer has switched off and the load cannot be switched on again.

- Cause 1: overheating protection has tripped.
Disconnect dimmer from mains by switching off circuit breaker.
LED trailing edge phase control: Reduce the connected load. Exchange lamps for another type.
LED leading edge phase control: Reduce the connected load. Check operation in the LED trailing edge phase control setting. Exchange lamps for another type.
Let dimmer cool down for at least 15 minutes.
Switch circuit breakers and dimmer on again.
- Cause 2: Surge protection has triggered.
LED trailing edge phase control: Check operation in the LED leading edge phase control setting, reduce connected load as well if necessary.
Exchange lamps for another type.
- Cause 3: short-circuit protection has tripped.
Disconnect dimmer from mains by switching off circuit breaker.
Eliminate short-circuit.
Switch circuit breakers and dimmer on again.
- i** Short-circuit protection is not based on a conventional fuse, no metallic separation of the operational current.
- Cause 4: load failure.
Check load, replace light bulb. For inductive transformers, check primary fuse.

LED lamp is dimly lit when dimmer is switched off.

Cause: LED lamp is not suitable for this dimmer.
Use a compensation module, see accessories.
Use another type of LED lamp or an LED lamp of another manufacturer.

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