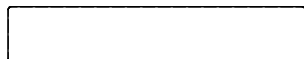


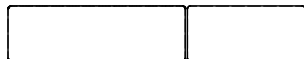
# Article code overview and explanation

## Overview different pieces switches

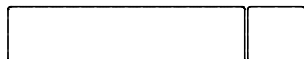
A : Blank plate



B : Short keypad button  
+ blank plate

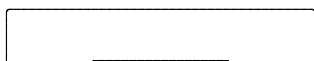


D : Long keypad button  
+ blank plate



## Overview different pieces single sockets

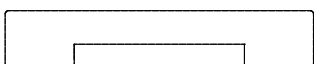
G : Single socket (45')  
upper & down part



F : Single socket (45')  
4 x side part



K : Single socket (55')  
upper & down part

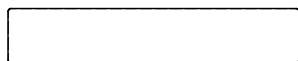


J : Single socket (55')  
4 x side part

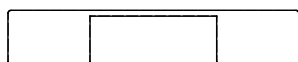


## Overview different pieces double sockets

A : Double socket (45')  
upper & down part



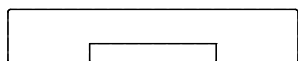
H : Double socket (45')  
upper & down part



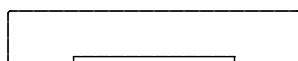
F : Double socket (45')  
4 x side part



I : Double socket (45')  
middle part



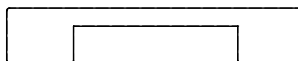
M : Double socket (55')  
upper & down part



J : Double socket (55')  
8 x side part



L : Double socket (55')  
middle part

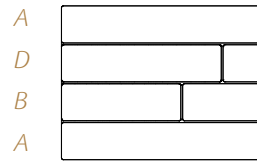


# Article code overview and explanation

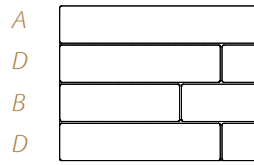
Piano switch : one button



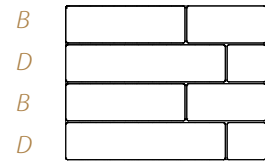
Piano switch : two button



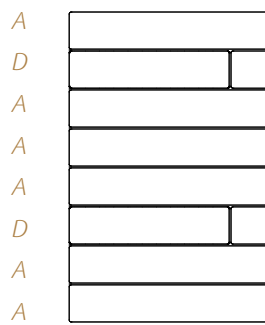
Piano switch : three button



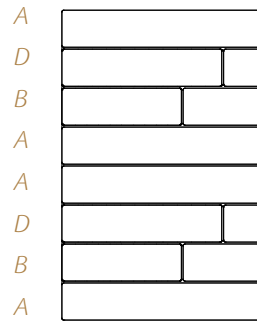
Piano switch : four button



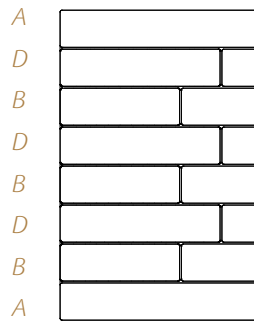
Piano switch : 2 x one button



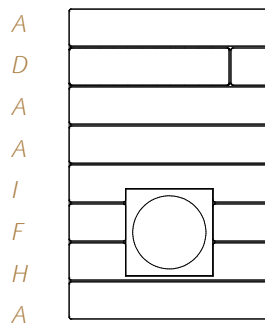
Piano switch : 2 x two button



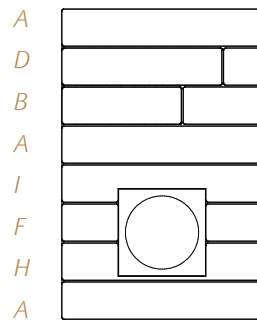
Piano switch : 2 x three button



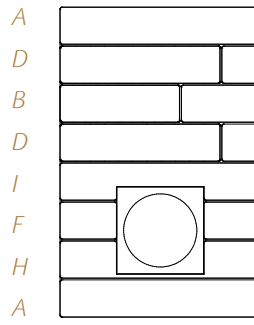
Piano : one button + socket (45°)



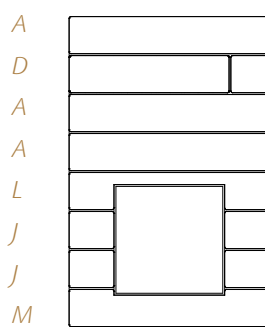
Piano : two button + socket (45°)



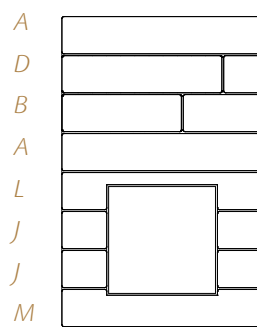
Piano : three button + socket (45°)



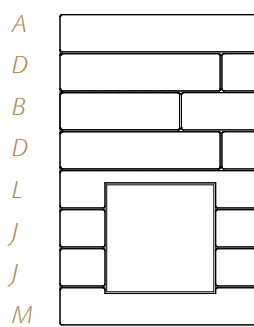
Piano : one button + socket (55°)



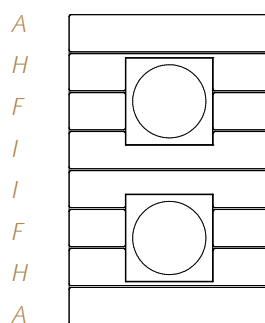
Piano : two button + socket (55°)



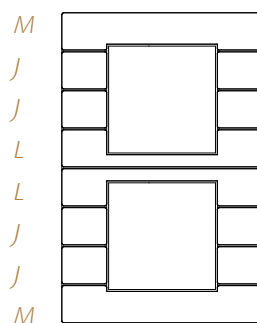
Piano : two button + socket (55°)



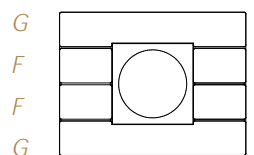
Piano socket : double (45°)



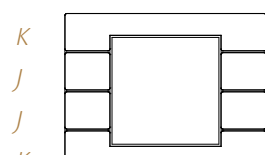
Piano socket : double (55°)



Piano socket : single (45°)



Piano socket : single (55°)



# Article code overview and explanation

## Explanation of the Piano article code :

Example : P-1-ADAA-010102

The first digit “P”, characterize the initials of a product created by the brand “Piano by Lithoss”.

The next digit, “1”, represent the type of mounting frame :

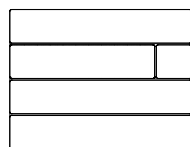
0	Not applicable	5	Bticino frame
1	250VAC	6	Legrand/Hager/Peha frame
3	55x55 frame	8	KNX

For combinations socket / buttons (1-3), please use following grid :

Frame Type of buttons	Frame 55 x 55	Frame Bticino	Frame L/H/P
250VAC	A	F	K
KNX	C	H	M

*In this case the number “1” stands for the push button mounting frame 250VAC.*

The next 4 digits, “ADAA”, represent the type:



*In this case “ADAA” stands for a switch with 1 button.*

**For Piano switches and sockets in one colour, use following colourcodes :**

The next 2 digits represent the finishing of the complete switch or socket :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

**For Piano switches and sockets with mixed colour plates, use following colourcodes :**

The first 2 digits “01” represent the finishing of the frame :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

*In this case “01” stands for the finishing Ral9010.*

The next 2 digits “01” represent the finishing of the blank plates :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

*In this case “01” stands for the finishing Ral9010.*

The next 2 digits “02” represent the finishing of the curved Piano keypad buttons (not applicable for sockets):

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

*In this case “02” stands for the finishing Ral7030.*

*The result is a one button Piano switch 250VAC white mixed with a grey curved keypad button.*

**Piano**  
by Lithoss

IMPORTANT : Technical data is subject to change without notice. Please check our website for latest information.

# Article code overview and explanation

## Explanation of the Piano article code :

Example : P-H-ADBDIFHA-03

The first digit “P”, characterize the initials of a product created by the brand “Piano by Lithoss”.

The next digit, “H”, represent the type of mounting frame :

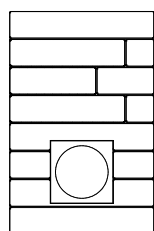
0	Not applicable	5	Bticino frame
1	250VAC	6	Legrand/Hager/Peha frame
3	55x55 frame	8	KNX

For combinations socket / buttons (1-3), please use following grid :

Frame Type of buttons	Frame 55 x 55	Frame Bticino	Frame L/H/P
250VAC	A	F	K
KNX	C	H	M

*In this case the letter “H” stands for the push button mounting frame KNX in combination with a Bticino mounting frame.*

The next 8 digits, “ADBDIFHA”, represent the type:



*In this case “ADBDIFHA” stands for a switch with 3 buttons in combination with a socket.*

**For Piano switches and sockets in one colour, use following colourcodes :**

The next 2 digits “03” represent the finishing of the complete switch or socket :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

*In this case the switch has one colour, so the finishing is anthracite (Ral7022).*

**For Piano switches and sockets with mixed colour plates, use following colourcodes :**

The first 2 digits represent the finishing of the frame :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

The next 2 digits represent the finishing of the blank plates :

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

The next 2 digits represent the finishing of the curved Piano keypad buttons (not applicable for sockets):

01 : Ral9010 (white)      02 : RAL7030 (grey)      03 : Ral7022 (anthracite)      99 : Custom RAL

*The result is a three button grey Piano switch with KNX push buttons and socket.*



# Product Bulletins

## Switches

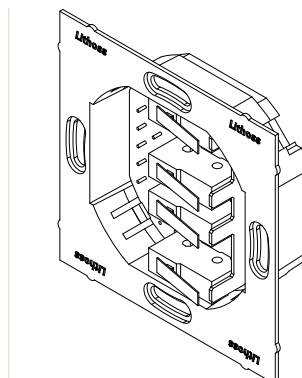
### Push Buttons

#### GENERAL DESCRIPTION

The Lithoss Piano pushbuttons are very simple to work with, but are in fact extremely versatile. They can be combined with various micro module's that will determine the buttons function. Timer functions, dim units and store controllers are just some of the many possibilities. They are also an ideal solution for domotics installations.

The mounting frame can be turned 90°.

Not suitable for wall boxes without screws.



#### TECHNICAL SPECIFICATIONS

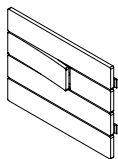
Switching function	SPST (ON) - OFF
Maximum load	All buttons are combined on 1 common contact 10A at 250VAC (resistive load)
Dielectric strength	1000 V RMS
Contact material	Silver
Lifecycle	10.000.000 mechanically / 50.000 at full load
Protection value	IP41
Connection method	PCB mounted quick connect terminal
Advised wallbox type	Depth 45mm or deeper, with screws Size internal Ø60mm or 50x50mm

#### APPROVAL

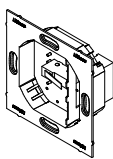
CE	Conform
RoHS	RoHS compatible

#### INCLUDED PARTS

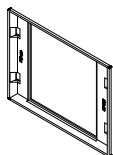
Piano cover



Mounting frame with double removable connectors



Piano backcover



Piano hook (removal tool), Installation manual



**Piano**  
by Lithoss

IMPORTANT : Technical data is subject to change without notice. Please check our website for latest information.

# Product Bulletins

## Switches

### KNX/EIB version

#### GENERAL DESCRIPTION

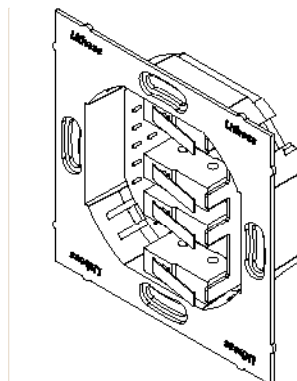
The Lithoss Piano pushbuttons are also available in a KNX/EIB version.

The pushbutton frames are delivered with a plug & play wired KNX/EIB pushbutton interface reducing the installation time to an absolute minimum.

All buttons can be separately programmed to their own specific function using the ETS software.

The mounting frame can be turned 90°.

Not suitable for wall boxes without screws.



#### TECHNICAL SPECIFICATIONS

Switching functions

Multiple functions including : On/Off, Dimming, Up/Down, Scene's, ...  
*More info can be found in the application software guide.*

LED functions

BUS connection

BUS consumption

Lifecycle

Protection value

Connection method

Advised wallbox type

Twisted Pair - 30 VDC

max. 15mA

10.000.000 mechanically / 50.000 at full load

IP30

Red / Black KNX connector

Depth 45mm or deeper, with screws

Size internal Ø60mm or 50x50mm

#### APPROVAL

CE

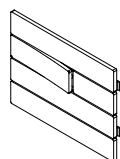
RoHS

Conform

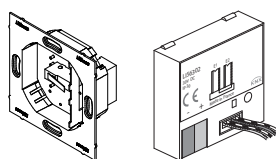
RoHS compatible

#### INCLUDED PARTS

Piano cover



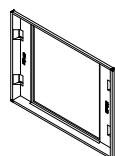
Mounting frame with double removable connectors  
Plug & Play interface



Li56302 : KNX Interface (2 buttons)

Li56304 : KNX Interface (4 buttons)

Piano backcover



Piano hook (removal tool), Installation manual



# Product Bulletins

## Frames

### Bticino

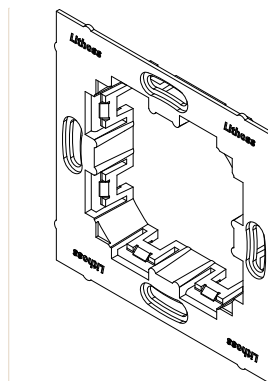
#### GENERAL DESCRIPTION

The Bticino frame makes it possible to integrate the Bticino sockets and outlets in the Piano design.

The frame is compatible with three ranges of modules in three different colours.

The mounting frame can be turned 90°.

Not suitable for wall boxes without screws.



#### TECHNICAL SPECIFICATIONS

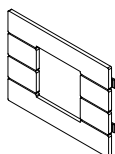
Compatible modules	Bticino Living	Black
	Bticino Light	White
	Bticino LightTec	Grey
Available space	2 modules	

#### APPROVAL

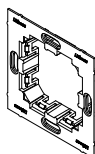
Approval dependant on module used

#### INCLUDED PARTS

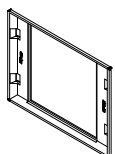
Piano cover



Mounting frame for modules



Piano backcover



Piano hook (removal tool), Installation manual



# Product Bulletins

## Frames

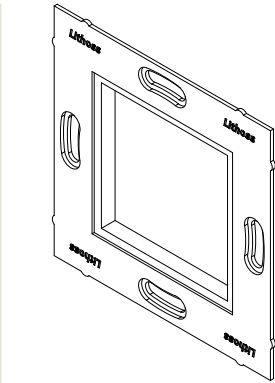
Legrand / Hager / Peha

### GENERAL DESCRIPTION

The Legrand/Hager/Peha frame makes it possible to integrate sockets and outlets from three different brands in the Lithoss design. The frame is compatible with modules out of the Mosaic range of Legrand and the Systo range of Hager. Also modules out of the Modul 45 range of Peha can be fitted in this frame.

The mounting frame can be turned 90°.

Not suitable for wall boxes without screws.



### TECHNICAL SPECIFICATIONS

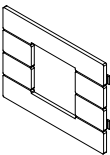
Compatible modules	Legrand Mosaic	White			
	Hager Systo	White			
	Peha Modul 45	White	Black	Alu Grey	
Available space	2 modules				

### APPROVAL

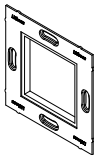
Approval dependant on module used

### INCLUDED PARTS

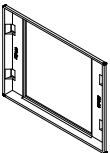
Piano cover



Mounting frame for modules



Piano backcover



Piano hook (removal tool), Installation manual



# Product Bulletins

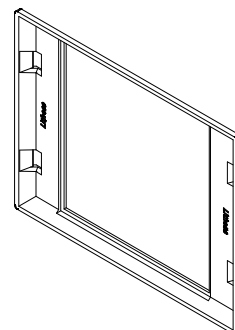
## Frames

### Modules 55 x 55mm

#### GENERAL DESCRIPTION

The 55' frame makes it possible to integrate moduls with exterior dimensions 55x55mm from manufacturers like Gira, Berker, Jung, ...

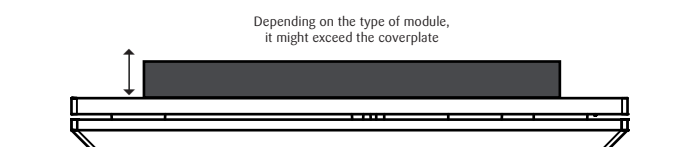
Not suitable for wall boxes without screws.



#### TECHNICAL SPECIFICATIONS

Compatible modules 55 x 55 module suppliers like Gira, Hager, Berker, Merten

Available space 2 modules

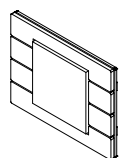


#### APPROVAL

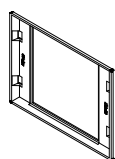
Approval dependant on module used

#### INCLUDED PARTS

Piano cover Piano hook (removal tool), Installation manual



Piano backcover



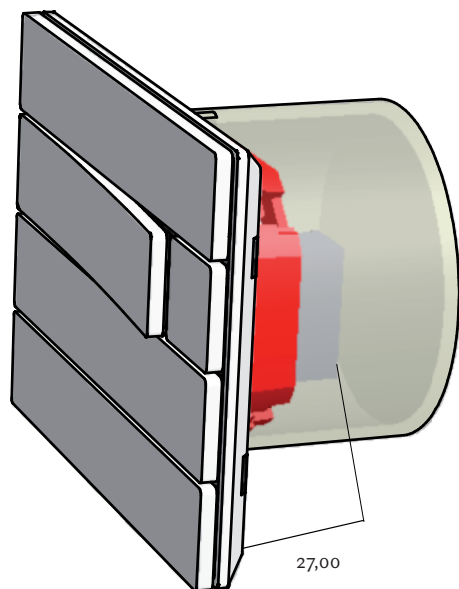
**Piano**  
by Lithoss

IMPORTANT : Technical data is subject to change without notice. Please check our website for latest information.

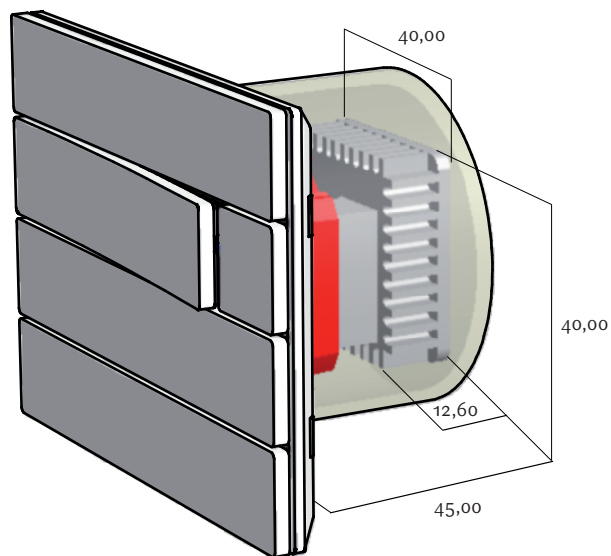
# Dimensions

## Depth

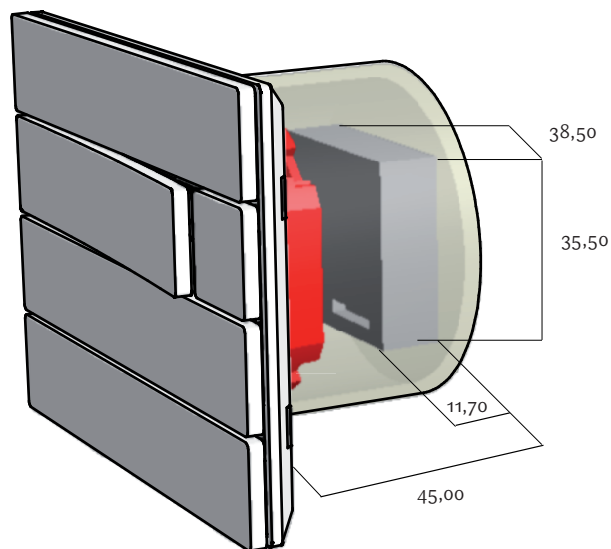
### 24 Volt Push Buttons



### 250 Volt Push Buttons



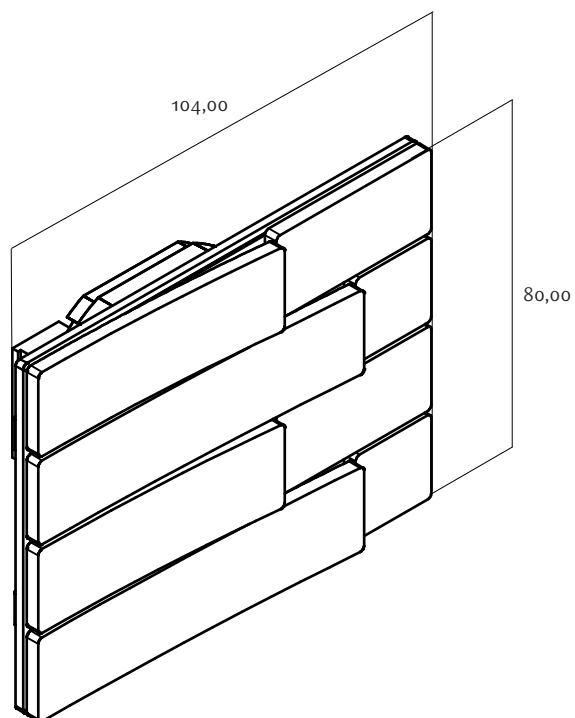
### KNX



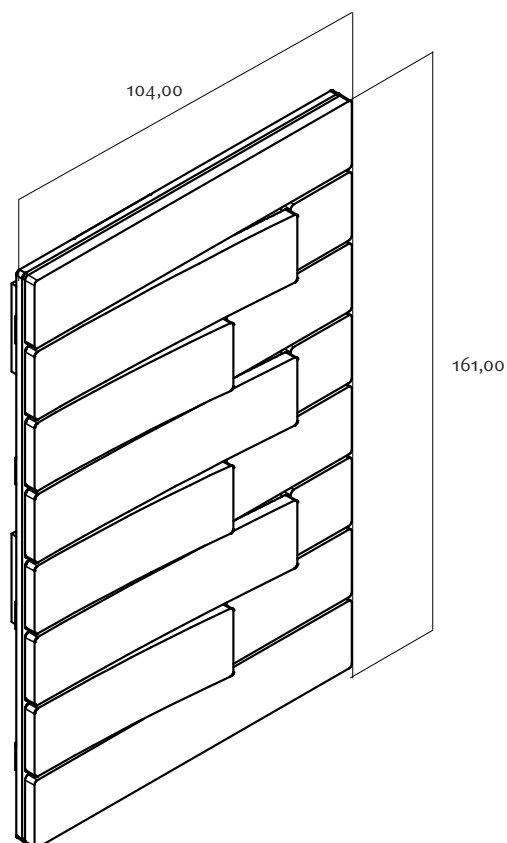
# Dimensions

Single frame

*One-Four button frame*



*Two-Six button frame*



**Piono**  
by Lithoss®

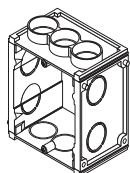
IMPORTANT : Technical data is subject to change without notice. Please check our website for latest information.

# Wall Boxes

## Dimensions

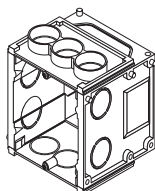
Lithoss switches and sockets should be installed on wall boxes with screws (screw distance : 60mm).  
Below you find an overview of our wall boxes.

*RE0119*



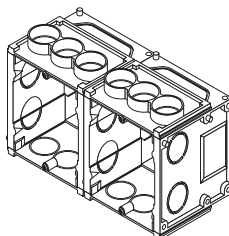
1 button  
2 button  
3 button  
4 button  
single socket  
blind plate  
orientation light

*RE0120*



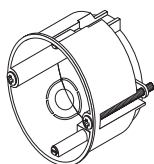
1 button  
2 button  
3 button  
4 button  
single socket  
blind plate  
orientation light

*2 x RE0120*



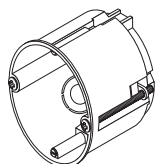
2 x 1 button  
2 x 2 button  
2 x 3 button  
1 button + socket  
2 button + socket  
3 button + socket  
double socket

*RE1265*



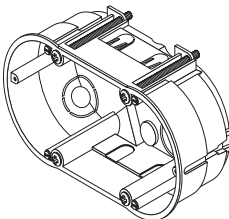
1 button  
2 button  
3 button  
4 button  
single socket  
blind plate  
orientation light

*RE1266*



1 button  
2 button  
3 button  
4 button  
single socket  
blind plate  
orientation light

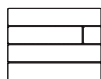
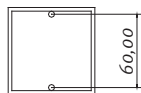
*1 x RE1267*



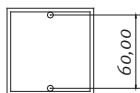
2 x 1 button  
2 x 2 button  
2 x 3 button  
1 button + socket  
2 button + socket  
3 button + socket  
double socket

## Important distances

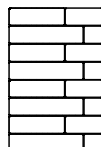
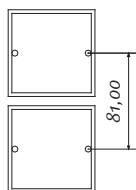
### Single frame horizontal



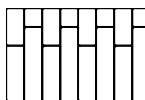
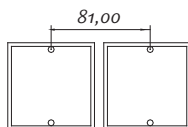
### Single frame vertical



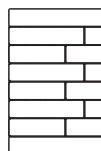
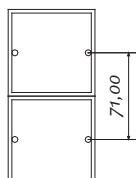
### 2 x single frame horizontal (max. 2 x 4 buttons) (similar for 3, 4, 5, ... wall boxes)



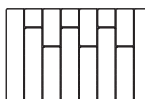
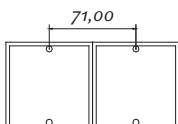
### 2 x single frame vertical (max. 2 x 4 buttons) (similar for 3, 4, 5, ... wall boxes)



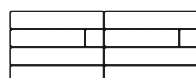
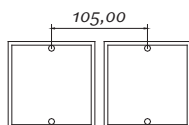
### Double frame horizontal (max. 6 buttons !!)



### Double frame vertical (max. 6 buttons !!)



### 2 x single frame horizontal (max. 2 x 4 buttons) (similar for 3, 4, 5, ... wall boxes)

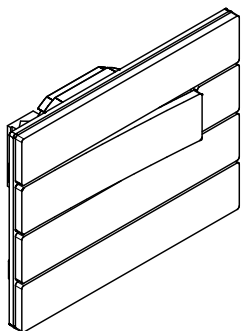




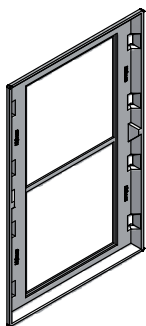
# Installation manual

## Overview mounting parts

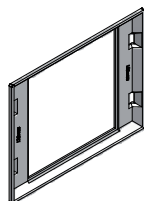
### Parts included



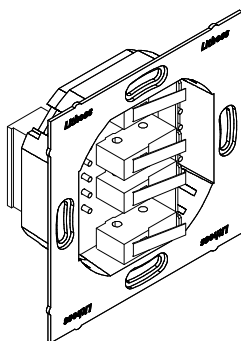
Piano coverplate



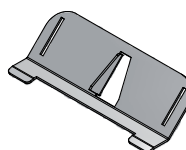
Piano frame double



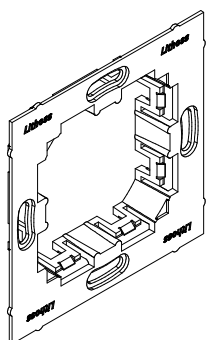
Piano frame single



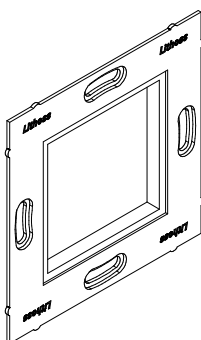
Mounting frame with  
2 removable connectors



removal tool



Bticino mounting frame

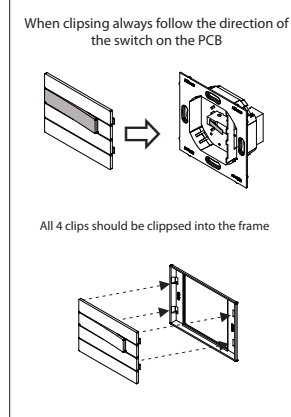
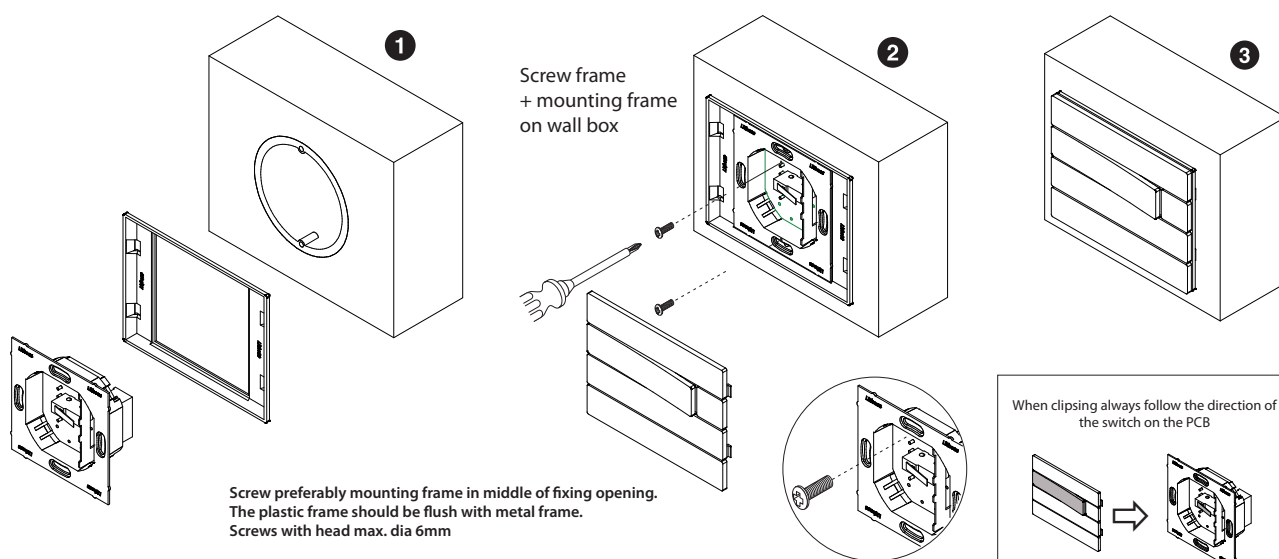


Legrand / Hager / Peha frame

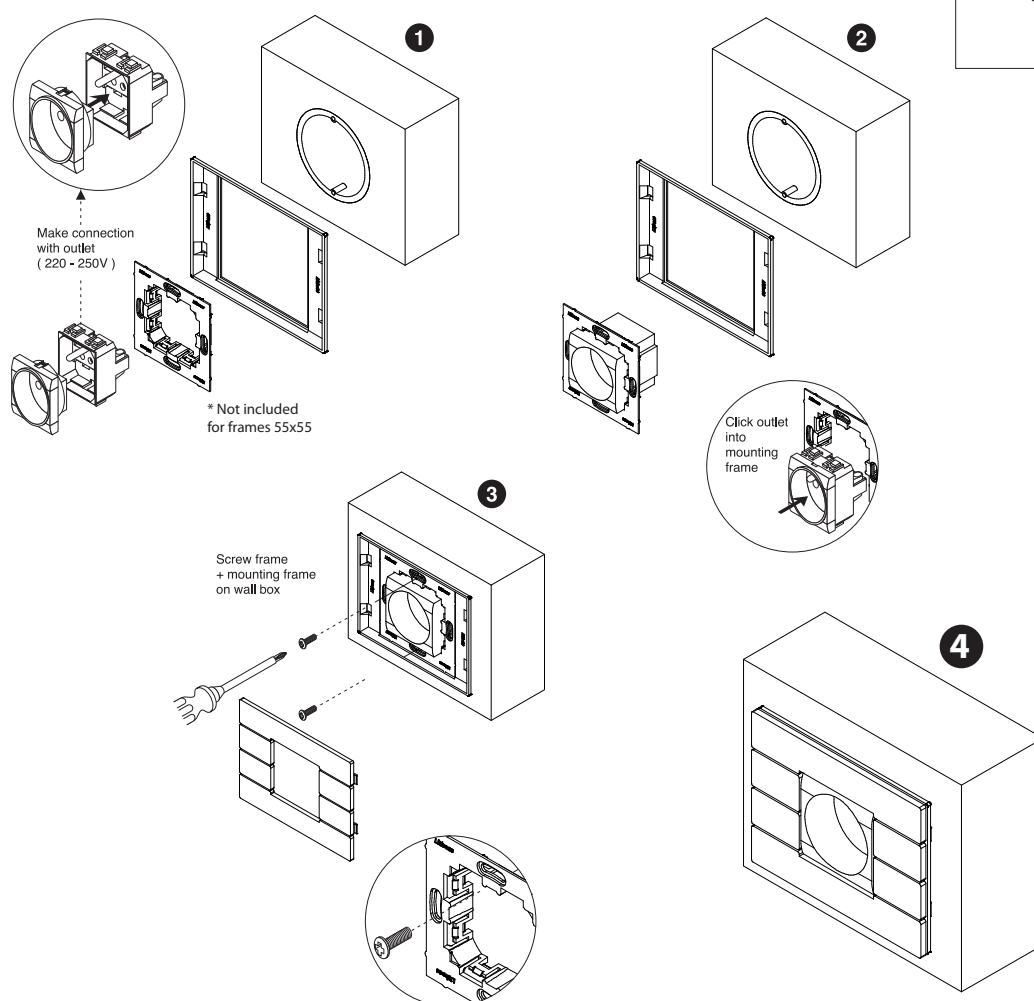
# Installation manual

## Manual general

Installation identical for switches with 1 button, 2 buttons, 3 buttons, 4 buttons, 2 x 1 button, 2 x 2 button, 3 x 2 button



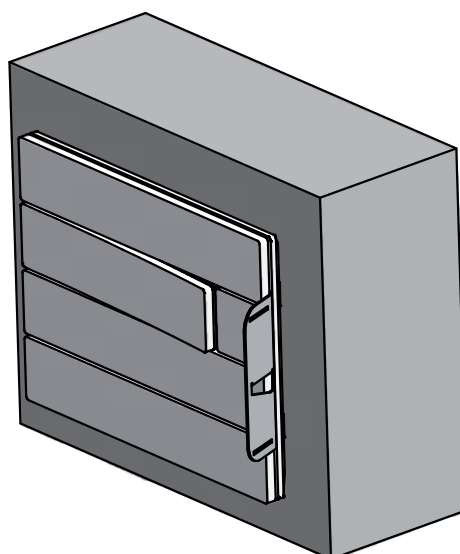
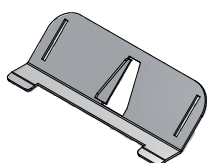
Installation identical for single and double sockets and combination of switches and sockets with 1 button, 2 buttons, 3 buttons



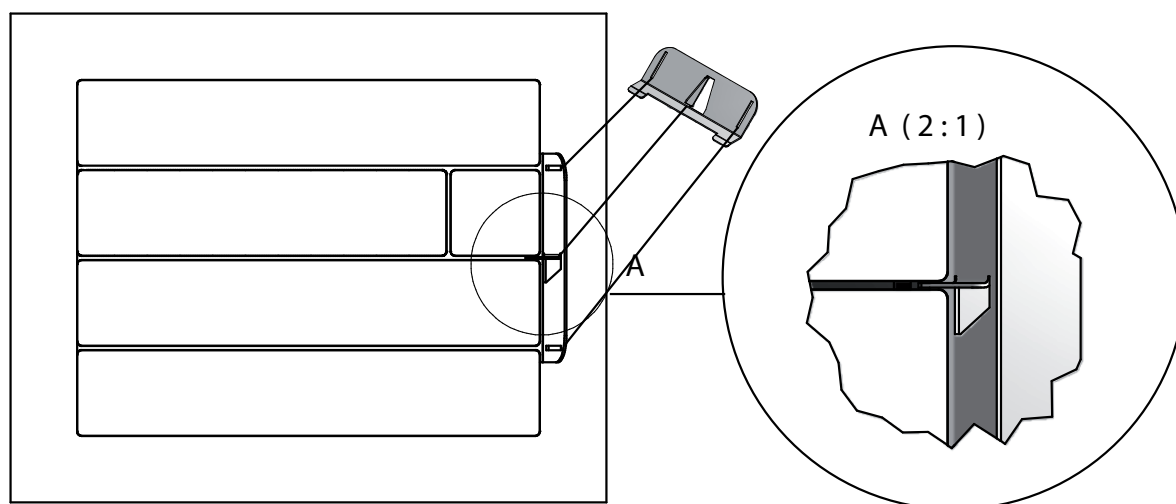
# Installation manual

## De-mounting

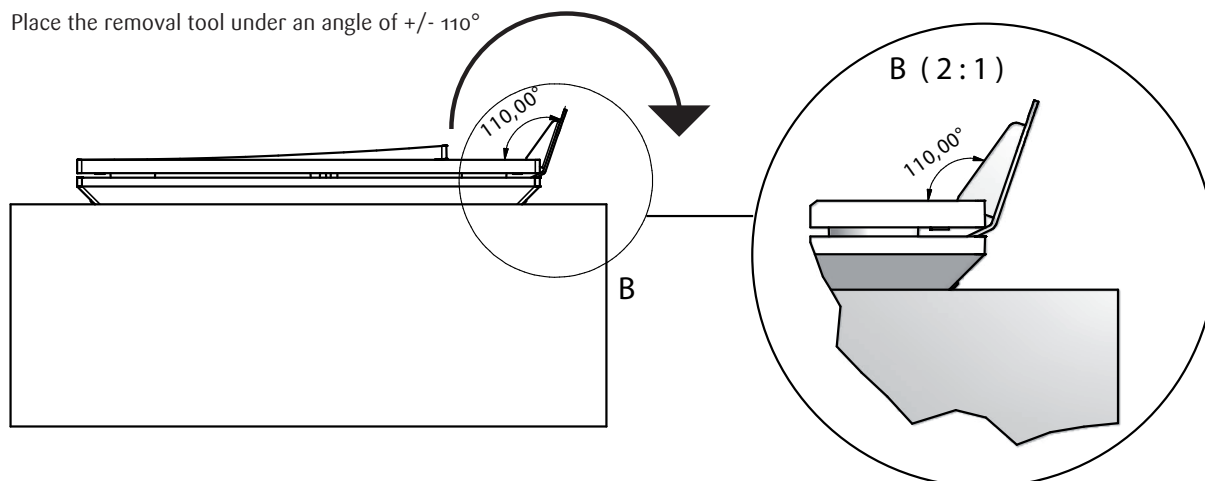
Removal tool



Put the removal tool halfway between the switch

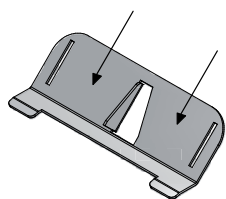
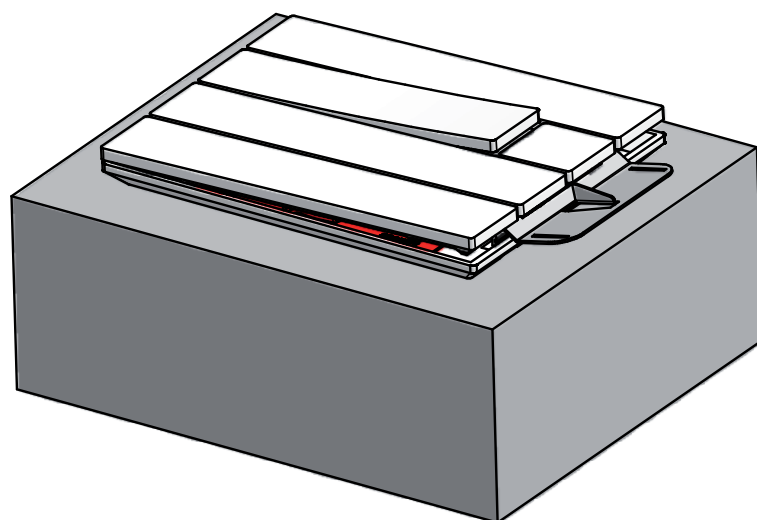


Place the removal tool under an angle of  $\pm 110^\circ$

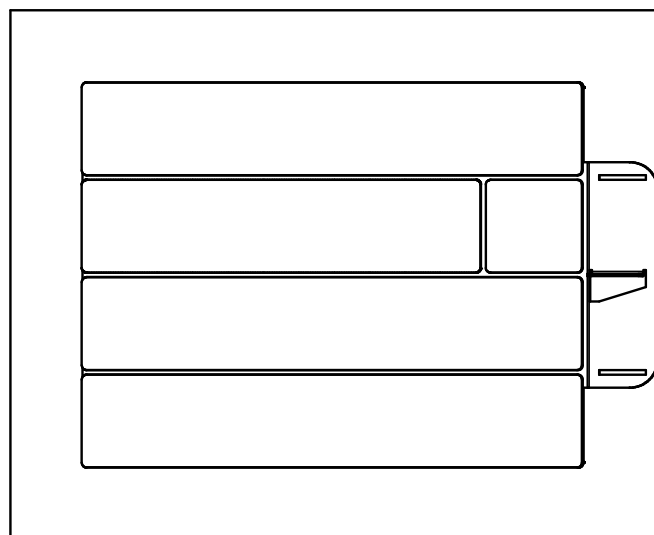
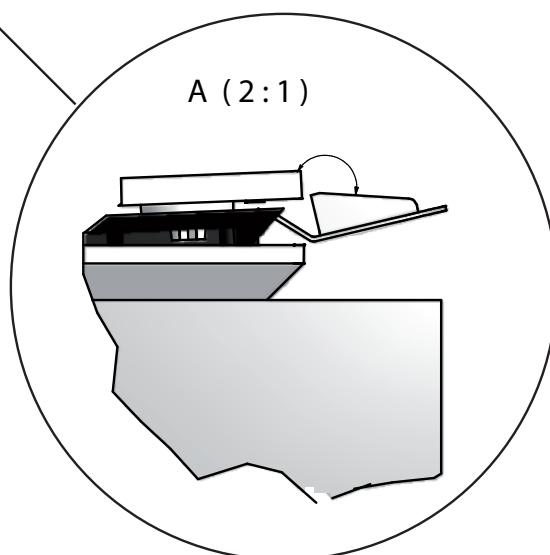
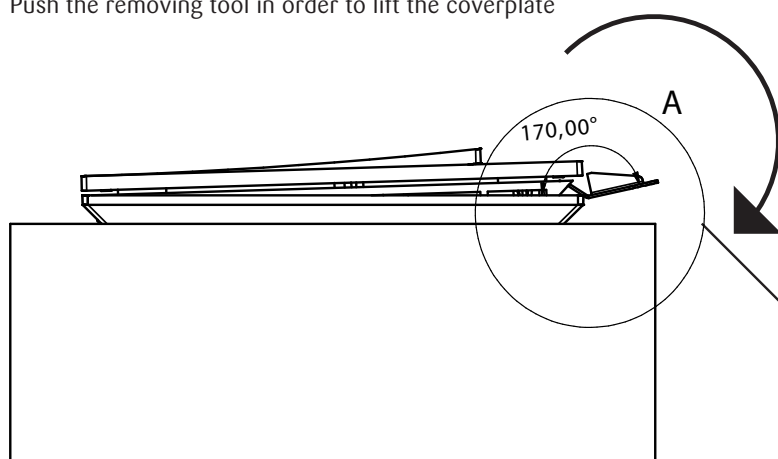


# Installation manual

## De-mounting



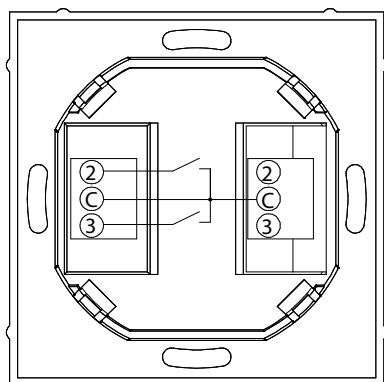
Push the removing tool in order to lift the coverplate



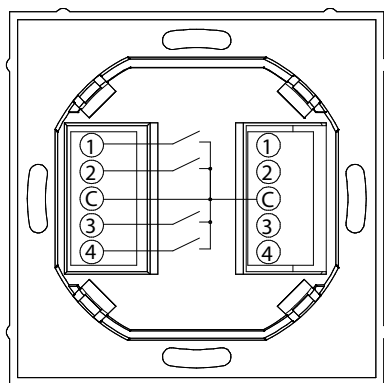
# Wiring diagrams

250VAC

*Two buttons*



*Four buttons*



# Domotics overview

## STAR KABLING

Lithoss 24V pushbuttons are direct compatible on domotics systems like Duotecno, ...

## BUS KABLING

Lithoss 24V pushbuttons are compatible by using an interface. Here under you find some interface modules that can be used in combination with Lithoss switches. Lithoss also has a proper KNX switch, which is direct compatible with the different KNX/EIB systems.

Manufacturer	System	Product Code	# channels	LED	Dimensions
Berker	EIB/KNX	7564 20 01	2	Yes	-
Berker	EIB/KNX	7564 40 01	4	Yes	-
Berker	EIB/KNX	7564 80 01	8	Yes	-
Bticino	My Home	3477	2	No	40,5 x 40,5 x 18 mm
Bush Jaeger	EIB/KNX	US/U 2.2	2	Yes	39 x 40 x 12 mm
Bush Jaeger	EIB/KNX	US/U 4.2	4	Yes	39 x 40 x 12 mm
Clipsal	C-Bus	5104BCL	4	No	55 x 49 x 19 mm
Clipsal	C-Bus	5102BCLEDL	2	Yes	55 x 49 x 19 mm
Crestron	Cresnet	CH-UNI8IO	8	Yes	50 x 42 x 24 mm
Domintell	-	DISMo4	4	Yes	46 x 28 x 15 mm
Domintell	-	DISMo8	8	Yes	46 x 28 x 15 mm
Jung	EIB/KNX	2076-2 T	2	Yes	43 x 28 x 16 mm
Jung	EIB/KNX	2076-4 T	4	Yes	43 x 28 x 16 mm
GIRA	EIB/KNX	1118 00	2	No	43 x 43 x 18 mm
GIRA	EIB/KNX	1119 00	4	No	43 x 43 x 18 mm
Hager	EIB/KNX	TX 302	2	No	38 x 35 x 12 mm
Hager	EIB/KNX	TX 304	4	No	38 x 35 x 12 mm
Hager	EIB/KNX	TX 344	4	Yes	38 x 35 x 12 mm
Lutron	Grafik Eye	GRX-WCI	2	No	dia. 59 mm x 20 mm
Merten	EIB/KNX	KNX 670802	2	Yes	30 x 40 x 12 mm
Merten	EIB/KNX	KNX 670804	4	Yes	30 x 40 x 12 mm
Niko	Nikobus	05-056	2	No	-
Qbus	-	INP02	2	Yes	41 x 40 x 12 mm
Qbus	-	INP04	4	Yes	41 x 40 x 12 mm
Siemens	EIB/KNX	5WG1 220-2AB02	4	No	38 x 43 x 17,6 mm
Siemens	EIB/KNX	5WG1 220-2AB13	2	No	38 x 43 x 17,6 mm
Theben	EIB/KNX	TA 2 496 9 202	2	Yes	37 x 37 x 10 mm
Theben	EIB/KNX	TA 4 496 9 204	4	Yes	37 x 37 x 10 mm
Theben	EIB/KNX	TA 6 496 9 206	6	Yes	(4x) 37 x 37 x 10 mm

\*Note : this list is not complete. For other brands, please contact us.

# Product Bulletins

## Micromodules

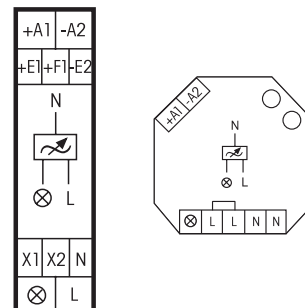
### Eltako

#### GENERAL DESCRIPTION

Eltako micromodules are available in many different operation possibilities. They are a perfect solution in combination with the Lithoss 250V pushbuttons. It is advisable to confirm the compatibility with the light supplier before starting the installation.

The first big difference with Yokis modules is that Eltako contains a master on/off module and can switch on 250V by using a 24V (+LED) pushbutton. The second advantage is that Eltako is compatible with fluorescent lighting.

Please find technical sheets in addendum.



#### TECHNICAL SPECIFICATIONS

Main power line voltage	Depending on module
Power	Depending on module
Compatible loads	Depending on module
Incompatible loads	Depending on module

#### APPROVAL

CE	Conform
	Further approval dependant on micromodule used

#### INCLUDED PARTS

Micromodule, Manual

#### AVAILABILITY

ES12Z-200	Teleruptor module (on/off) UC-2000W with central control function - modular version
ESR61M	Teleruptor module (on/off) UC-2000W - wall box version
EUD12D	Dimmer module - dimming up to a max. of 500VA with central control - modular version
EUD61M	Dimmer module - dimming up to a max. of 500VA - wall box version
LUD12	Slave module for dimmer module EUD12M - modular version
MFZ12DDX	Digital universal module UC-2000W - modular version
SDS12/1-10V	1-10V dimmer 600VA - modular version
EGS12Z	Module for stores and curtains - modular version
EGS61Z	Module for stores and curtains - wall box version
SNT12-24VDC-12W	Transfo 230VAC-24VDC - 12W - 0,5A
SNT12-24VDC-24W	Transfo 230VAC-24VDC - 24W - 1,0A

# Product Bulletins

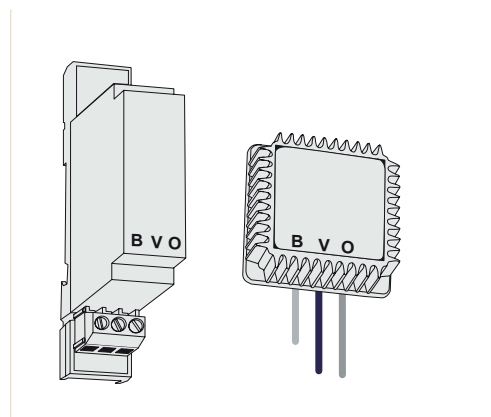
## Micromodules

Yokis

### GENERAL DESCRIPTION

Yokis micromodules are available in many different operation possibilities. They are a perfect solution in combination with the Lithoss 250V pushbuttons. It is advisable to confirm the compatibility with the light supplier before starting the installation.

Please find technical sheets in addendum.



### TECHNICAL SPECIFICATIONS

Main power line voltage

230 VAC / 50 Hz

Power

Min. 3 VA - Max. 500 VA Unless otherwise specified

Compatible loads

- 1) Conventional lights bulbs and 220V halogen light bulbs
- 2) Ferromagnetic, ring and electronic transformers
- 3) Universal or asynchronous motors
- 4) Relays or switches > 10 VA
- 5) Economy light bulb ( = add the CHR3W parallel on one of the light bulbs )

Incompatible loads

- 1) Modules are not suitable for fluorescent lighting
- 2) Point 5 is not applicable for the MTV500-E module

### APPROVAL

CE

Conform

Further approval dependant on micromodule used

### INCLUDED PARTS

Micromodule, Manual

### AVAILABILITY

MTR500-E

Teleruptor module (on/off) up to a maximum of 500VA - wall box version

MTR500-M

Teleruptor module (on/off) up to a maximum of 500VA - modular version

MTR2000-E

Teleruptor module (on/off) up to a maximum of 2000VA - wall box version

MTR2000-M

Teleruptor module (on/off) up to a maximum of 2000VA - modular version

MTV500-E

Dimmer module - dimming up to a maximum of 500VA - wall box version

MTV500-M

Dimmer module - dimming up to a maximum of 500VA - modular version

MTM500-E

Timer module - programmable for timed lighting - wall box version

MTM500-M

Timer module - programmable for timed lighting - modular version

MTVT500-E

Timed dimmer module - programmable timer with dimmer function

MTK500-E

Multifunctional module - variation of switching, dimming, timer, simulation, ...

MVR500-E

Module for stores and curtains (R12M & D600V not included)

R12M

Add this componant for 2 buttons controle of stores

D600V

Diode to centralise the modules on one pilot wire

CHR3W

Resistive loads for economic light bulbs

**Piono**  
by Lithoss

IMPORTANT : Technical data is subject to change without notice. Please check our website for latest information.