

bticino

LIVING
LIGHT
LIGHT TECH



CATALOGUE 06

LL06C/USA



CONTENTS

GENERAL FEATURES 6

Technology and design at your system's service	7
All functions for a modern electric system	8
Matching colours and materials with the furniture	12
Modular concept	14
Installation	15

FAST CHOICE TABLE 20

CATALOGUE 37

Basic control devices	38
Lightable key-covers	39
Interchangeable unlightable key-covers	41
Key-covers with lightable symbols	42
Control devices	43
Control devices and relays	44
Dimmer	45
Electronic control devices	46
Socket outlets	47
Tv + sat jacks	52
Connectors RJ45	53
Data and telephone sockets	54
Control	56
Audible signalling devices	58
Luminous signalling devices	59
Indicators and emergency lamps	60
Electrical safety devices	61
Devices for sound system	62
Burglar alarm system	64
Gas detectors	69
Hearing request	70
Devices for video door entry systems	71
Blank plates and accessories	72
Lamps and plugs	73
Installation in protected housing IP40 - IP55 IDROBOX	74
Wiring accessories floor boxes	75

TECHNICAL INFORMATION 76

Everyone is dreaming of an ideal house
BTicino knows how to make this dream
come true

LIVING



LIGHT



LIGHT TECH



LIVING, LIGHT and LIGHT TECH designed for living

LIVING, LIGHT and LIGHT TECH is the most complete system for inside and outside electric devices conceived with a simple yet engaging idea: to develop **all electrical functions with three different looks** in order to offer the best technical solution for the style and environment in which they will be installed.



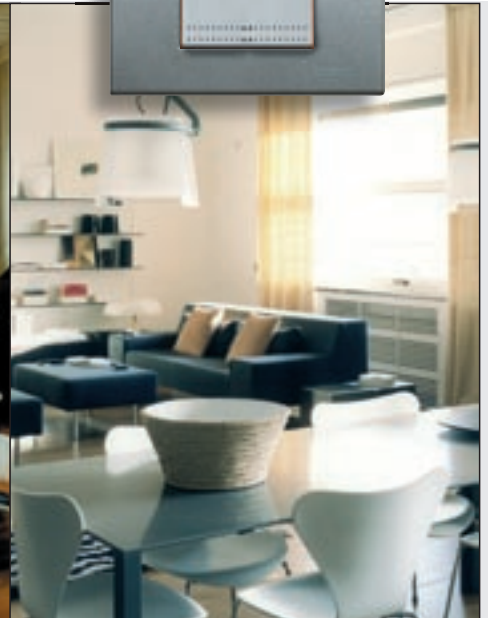
LIVING

Soft and rounded shapes surrounding elegant anthracite-coloured devices.



LIGHT

Rational structures and white satin-finish switches suggest harmony and lightness.



LIGHT TECH

The metallic finish emphasizes the technological aspect of electric devices.

- all rooms of the house can be personalized with different cover plate colours
- cover plates can be changed easily at any time, for example when replacing the furniture

TECHNOLOGY and DESIGN at your system's service

Unlike the systems used a few years ago, modern electric systems do not only include switches and sockets. Today, **electronic technology** offers many useful solutions, which are not always very well known, that can make your house or office more comfortable and safe.



Light intensity adjusting dimmer



Anti-blackout emergency lamp



Protection against electric shocks



Chronothermostat for room air-conditioning

The look of the electric system consists mainly of two elements:

- the colour of the devices
- the materials and finish of the cover plates

The **cover plates**, or rather the frames surrounding the devices, are available in **more than 50 colours and materials** and have been chosen according to different furnishing styles and high quality levels.



Solid cherry essence wood



Zama metallic alloy with 24-carat gold finish



Zama metallic alloy with Tech finish



Polycarbon with gel finish

All FUNCTIONS for a modern electric system

Bticino's design philosophy is based on three main principles:

- modular concept
- miniaturization
- multifunction

All Living, Light and Light Tech devices have been developed according to these principles and will allow you to combine different electrical functions with perfectly matching and attractive results at all times.

1. LIGHT CONTROL

The ergonomics of the controls is shown in the details:
switching on is easy thanks to little knurlings on the switch and, if you wish, light can be diffused through very thin clear lens to easily spot the controls in the dark.



Quiet electronic dimmers switch lights on and off and adjust the light intensity.

Dimmers can be activated manually with pushbuttons or knobs.



The infrared (IR) switches detect people when walking by and automatically switch on the light for a certain period of time.

They are helpful in corridors and closets. IR's avoid searching for controls in the dark or when your hands are not free.



Modular concept:

all devices have been developed according to equal or multiple dimensions of a reference structure (module), thereby ensuring a perfect modularity in the light point.

2. POWER AND SIGNAL SOCKETS

A complete catalogue of sockets lets you solve all types of high quality domestic and commercial applications:

- sockets for different international standards
- TV and satellite jacks
- RJ11 telephone connectors
- RJ45 data connectors for networks
- fiber-optic connectors



General-purpose sockets house both Italian and German plugs. It would be a good idea to install one near electrically-powered appliances.

3. ENVIRONMENTAL CONDITION AND PROGRAMMING

The chronothermostat is an electronic device that adjusts the temperature in winter and summer: the consumption of the boiler is automated according to a daily and weekly cycle, thereby ensuring high comfort and remarkable energy saving.



Left the light on in the closet or in the stairway? The timer automatically turns off the light after a set time between 1 and 12 minutes.

Miniaturization: even electronic items have been developed in the basic module, thus matching the style and installation of traditional appliances.

All FUNCTIONS for a modern electric system

4. PROTECTION AND SAFETY

The safety of domestic environments involves many aspects contained in a catalogue full of useful functions.

ELECTRICAL SAFETY

Automatic circuit breakers together with sockets protect people even more against accidental electrical contacts.



Circuit breakers are useful, e.g. for protecting the kitchen counter.



Other appliances (called SPD) can protect television sets, stereos and computers against damages caused by lightning.

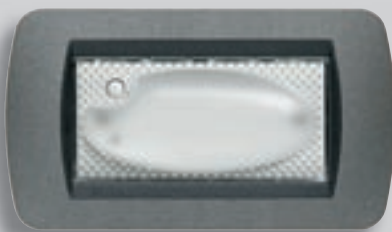
LAMPS

Lamps integrated with electric systems automatically switch on when the power goes out.

An emergency lamp is the best solution to show you the way to the distribution board in case of a black-out.



A torch is a helpful tool that can be pulled out of the wall. It automatically goes on in case of a black-out.



GAS ALARM

Protection against natural methane gas or GPL leaks is guaranteed by automatic detecting systems.



In case of leaks from appliances, they automatically cut off the gas flow (with a solenoid valve being there) and emit an audible and visual warning alarm.

Multipurpose: modular concepts and miniaturization give rise to the possibility of choosing which functions of the system you need to activate, thereby combining them as you wish in an integrated and attractively coordinated system.

5. SOUND SYSTEM

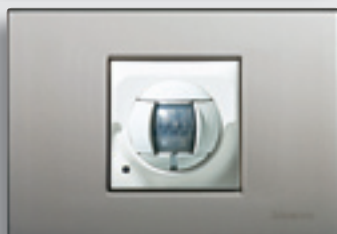
The sound system allows you to send the signal coming from an outside source (hi-fi or CD unit) or the music of a system's built-in radio alarm clock to the rooms of a house and office.



Radio tuner of a sound system

6. BURGLAR ALARM

BTicino offers a professional, complete and technologically advanced burglar alarm integrated with the LIVING, LIGHT and LIGHT TECH styles, complete with all the performances and capabilities of modern digital electronics.



A complete range of devices allows you to program the burglar alarm according to the specific needs of the building to be protected.



The control unit with telephone dialling device allows you to send remote alarm and signalling messages.

7. MY HOME

With **MY HOME**, BTicino offers the possibility to plan solutions regarding comfort, safety, savings, communication and control, which are inconceivable in a traditional system.

MY HOME is available in three styles: LIVING, LIGHT e LIGHT TECH.



MY HOME

MY HOME:

For more information on this system, you may request specific documentation by visit the website www.myhome-bticino.it

Matching COLOURS and MATERIALS with the furniture

LIVING, LIGHT and LIGHT TECH offer 55 types of cover plates, all different in colour, finish and material, carefully selected to meet the **various decors** and progressive levels of choice.



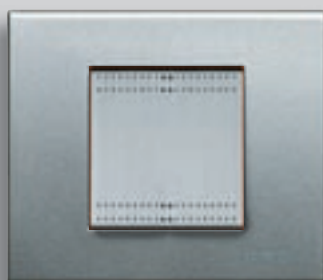
The cover plate is a frame placed around an electric device.

3 LINES OF DEVICES WITH 3 DIFFERENT STYLES



LIVING has a strong propensity for being noticed on the wall. It has been conceived to complete environments with high quality furniture, both classic and modern.

LIGHT expresses many decoration styles of white: mimetic transparency of the kristall cover plate, moderate elegance of the zama and solar personality of the gel finishes.



Natural evolution of Light. The **LIGHT TECH** line has a metallic finish that matches the appliances with the cover plates, thereby resulting in an original and new style.



MATERIALS AND FINISHES FOR DIFFERENT LEVELS OF CHOICE

The cover plate catalogue is arranged according to different levels of choice (included both in the Living and Light line).

SOLID WOOD

High quality and environment-friendly selected essences of wood are processed according to the Italian traditional furniture methods.

The match between the wooden cover plate and the metal key is particularly interesting.



METAL FINISH ZAMA

The zama cover plate is suitable for electro-chemical treatments. This is where the noblest finishes of the metal begin: satin polished 24-carat gold, silver, nickel and chromium.

Zama is a zinc and aluminium metallic alloy. The Native cover plate shows the natural aspect of the speckled zama before its next treatments.



PAINTED FINISH ZAMA

This group consists of a range of colours that goes from white to anthracite and from metallized aluminium to an earth effect.

Even Plastics are high quality in LIVING and LIGHT: bakelite is a tribute to Italy's design of the past; polycarbonate is finished with a rubber effect; the plain white is finely satin-finished to get a plasterboard look.

Jelly and opal cover plates with a rubber finish, which should be felt as well as seen.



Modular concept

LIVING, LIGHT and LIGHT TECH devices are, depending on their features and their function, made in modular concepts from 1 to 4.

1 MODULE
1

2 MODULES
1+1

3 MODULES
1+1+1

4 MODULES
1+1+1+1



Most of the products are made with dimensions of 1 or 2 modules.

Only more complex electronic devices or devices with particular manufacturing needs are produced in 3 or 4 modules

As for cover plates for horizontal and vertical flush-mounting installations, both 1-module devices (two

for each housing) and 2-module devices (one for each housing) can be used.

1M + 1M



2M



2M

1M + 1M



2M

2M

Other cover plates for flush-mounting installations, having a different capacity of 3 and 7 modules (depending on the module), allow for the housing of devices in even more various combinations.

For example (see below), two 1-module switches, a 3-module programmer and a 2-module pull-out torch can be placed in a 7-module cover plate.

3M



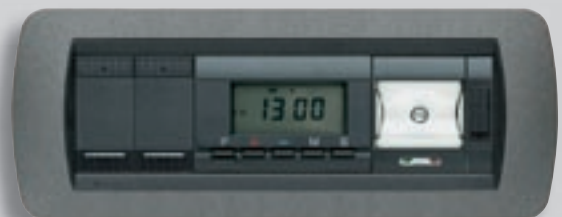
3-module cover plate

2M + 2M



4-module cover plate

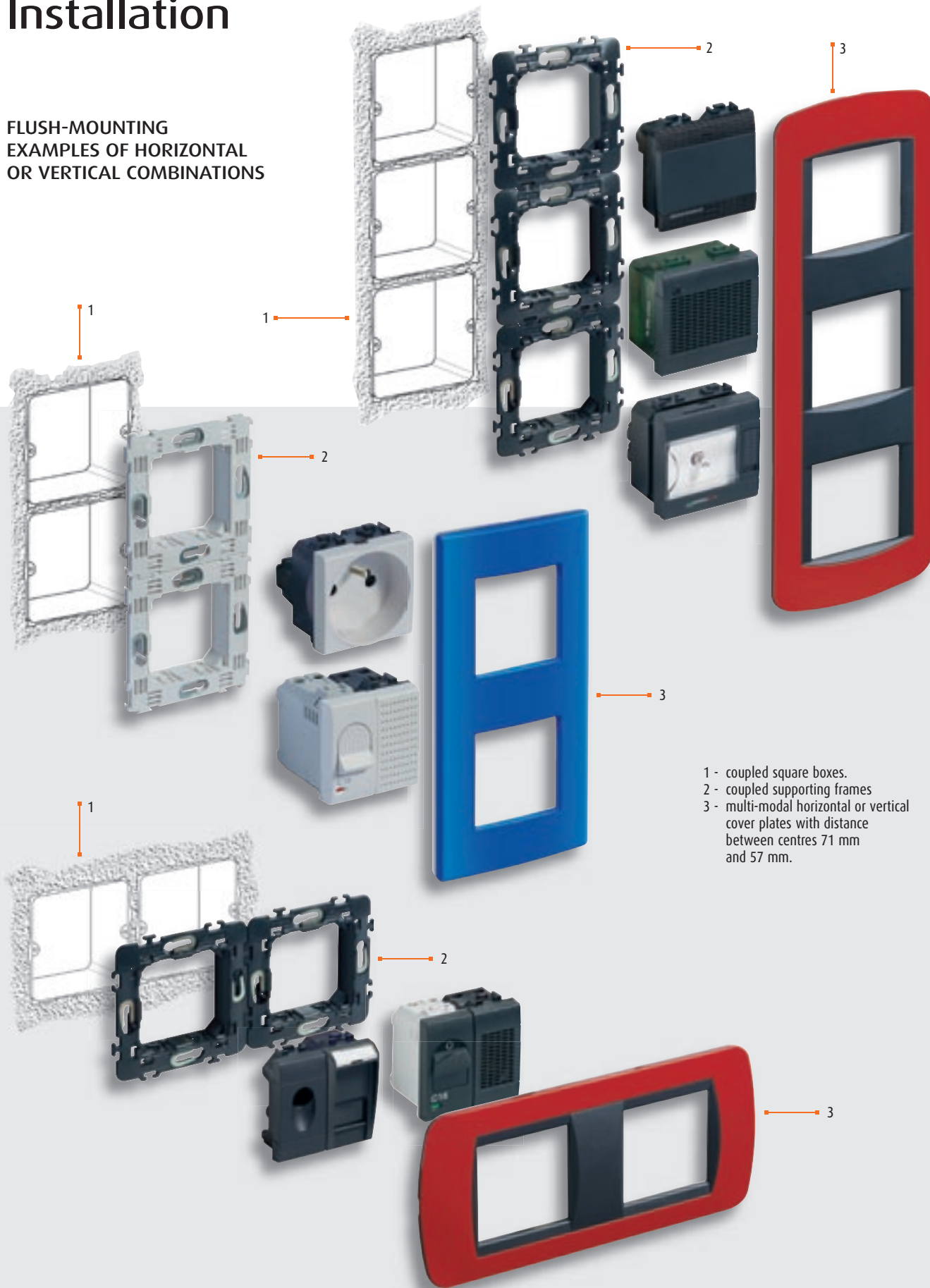
1M + 1M + 3M + 2M



7-module cover plate

Installation

FLUSH-MOUNTING
EXAMPLES OF HORIZONTAL
OR VERTICAL COMBINATIONS

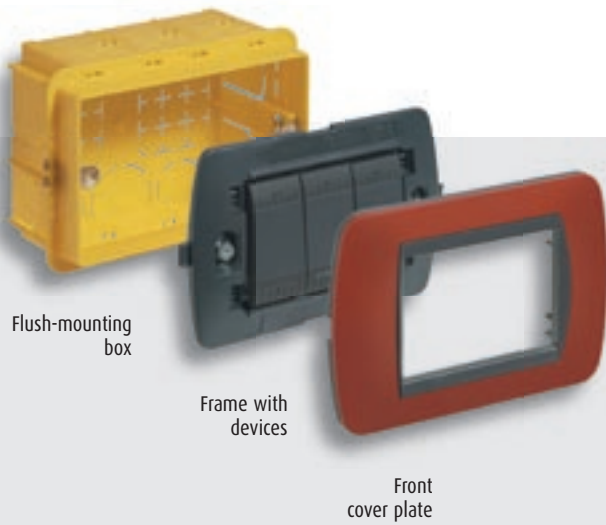


- 1 - coupled square boxes.
- 2 - coupled supporting frames
- 3 - multi-modal horizontal or vertical cover plates with distance between centres 71 mm and 57 mm.

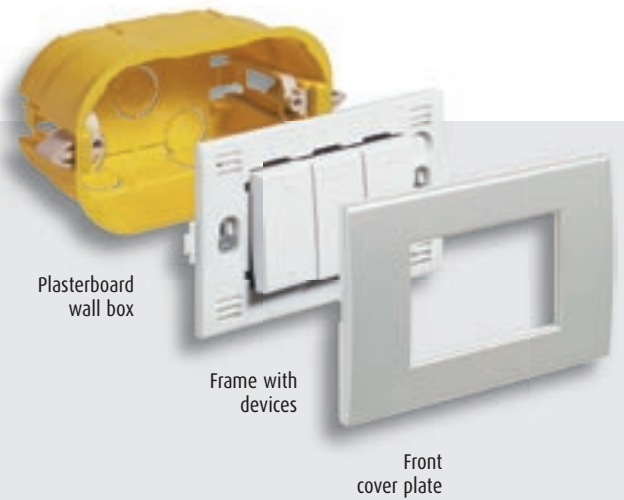
Installation

FLUSH-MOUNTING

■ For masonry walls



■ For plasterboard walls



WALL AND TABLE MOUNTING INSTALLATIONS



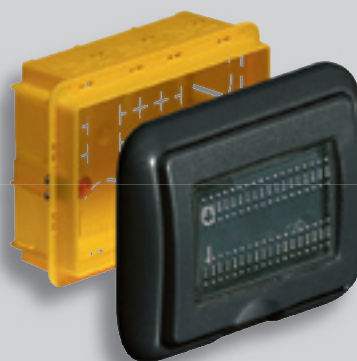
INSTALLATION IN PROTECTED BOX



IP40 internal housing

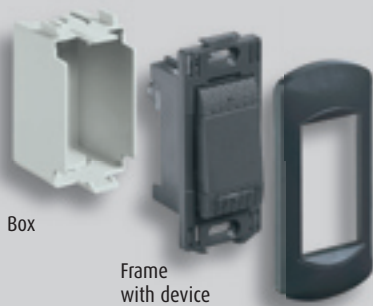


IP55 protected external housing



Protection cover

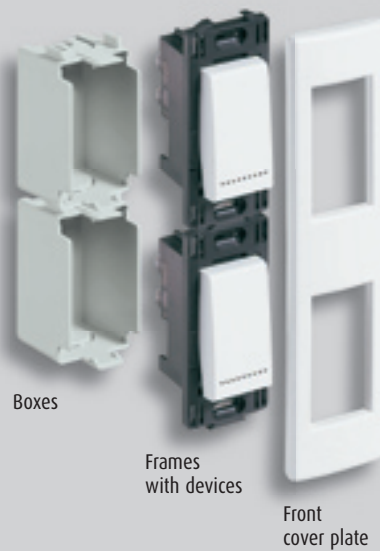
INSTALLATION ON RAILS



Box

Frame with device

Front cover plate



Boxes

Frames with devices

Front cover plate

Installation

DIVERSIFIED INSTALLATIONS FOR THE SERVICE SECTOR



4.
One-side
column



1.
Multibox multipurpose
flush-mounting
distribution board



2.
Two-side floor
pedestal



3.
Workstation trunking




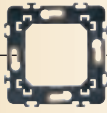

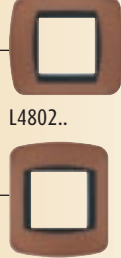


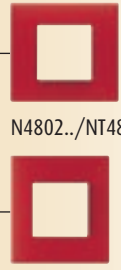
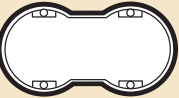




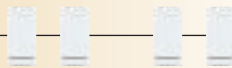

5.
Equipped Interlink
trunking

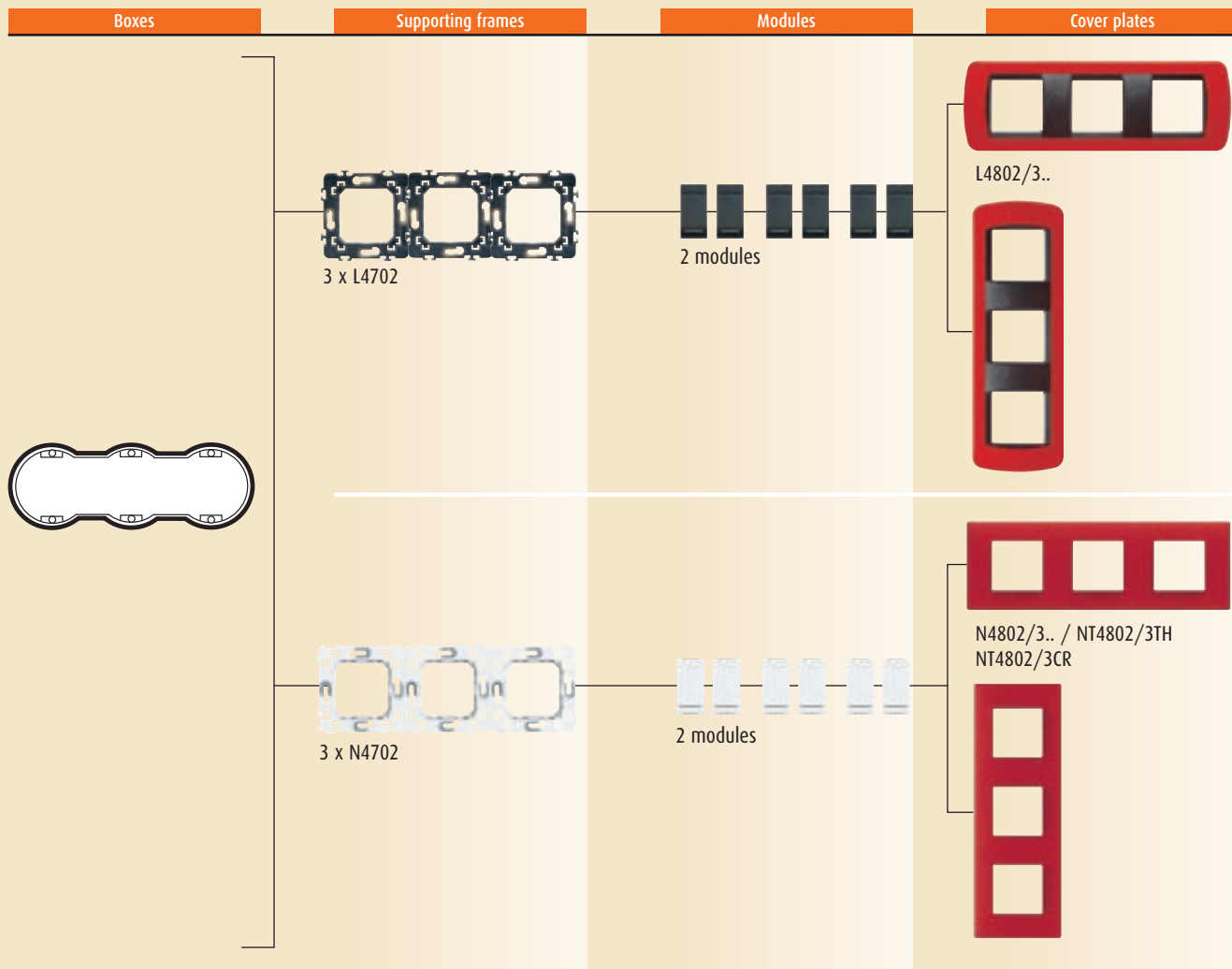


6.
INTERLINK wall
distribution board











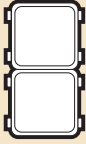










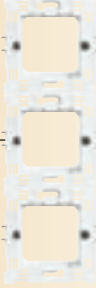


Assembly - centers 71mm fixing with screws

Boxes	Supporting frames	Modules	Cover plates
	 L4702	 2 modules	 L4802..
	 N4702	 2 modules	 N4802../NT4802TH/NT480CR
	 2 x L4702	 2 + 2 modules	 L4802/2..
	 2 x N4702	 2 + 2 modules	 N4802/2../NT4802/2TH /NT4802/2CR









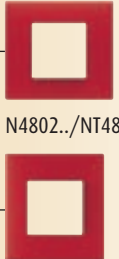
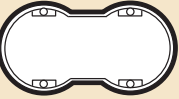






NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white).
It is possible to fit the supporting frames with protective sheaths for painting (see section "Accessories").

Assembly - centers 71mm - fixing with clips

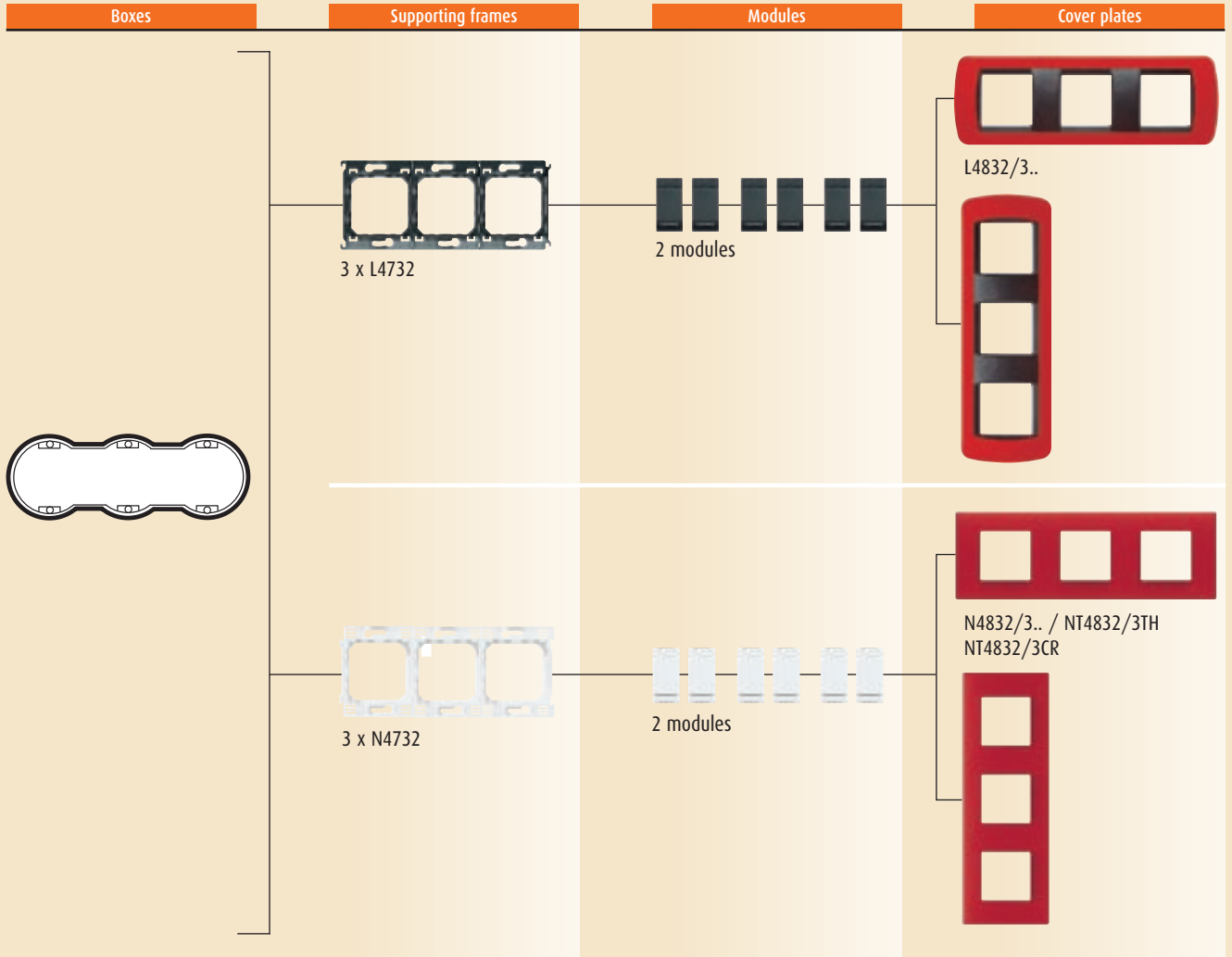
Boxes	Supporting frames	Modules	Cover plates
 	 L4702G	 2 modules	 L4802..
	 N4702G	 2 modules	 N4802.. / NT4802TH /NT4802CR
	 2 x L4702G	 2 + 2 modules	 L4802/2..
	 2 x N4702G	 2 + 2 modules	 N4802/2.. / NT4802/2TH /NT4802/2CR
	 3 x L4702G	 2 + 2 + 2 modules	 L4802/3..
	 3 x N4702G	 2 + 2 + 2 modules	 N4802/3.. / NT4802/3TH /NT4802/3CR

NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white).

Assembly - centers 57mm fixing with screws





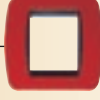



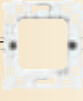







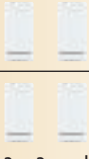








Boxes	Supporting frames	Modules	Cover plates
	 L4732	 2 modules	 L4802..
	 N4702	 2 modules	 N4802../NT4802TH/NT4802CR
	 2 x L4732	 2 + 2 modules	 L4832/2..
	 2 x N4732	 2 + 2 modules	 N4832/2../NT4832/2TH /NT4832/2CR

Assembly - centers 57mm fixing with screws







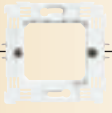



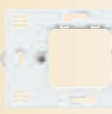

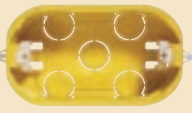






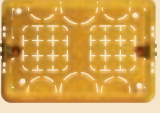

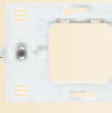
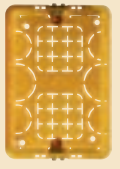



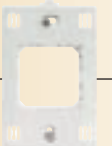


NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white).

Assembly - centers 57mm fixing with clips




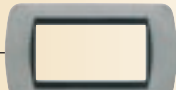



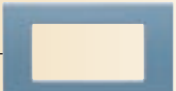

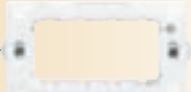

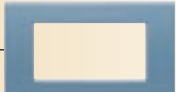


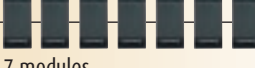
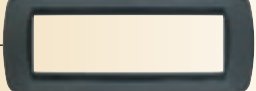

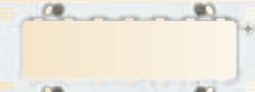

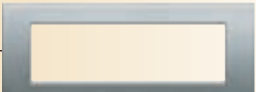
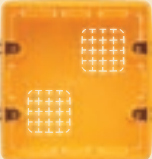
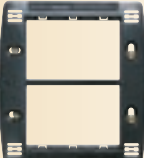


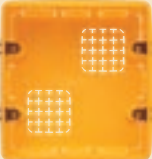

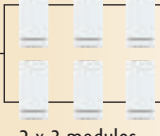




Boxes	Supporting frames	Modules	Cover plates
 	 L4702G	 2 modules	 L4802..
	 N4719G	 2 modules	 N4819.. NT4819TH NT4819CR
	 N4732G	 2 modules	 N4802.. NT4802TH NT4802CR
	 2 x L4732G	 2 + 2 modules	 L4832/2..
	 2 x N4732G	 2 + 2 modules	 N4832/2 .. NT4832/2TH NT4832/2CR
	 3 x L4732G	 2 + 2 + 2 modules	 L4832/3..
	 3 x N4732G	 2 + 2 + 2 modules	 N4832/3 .. NT4832/3TH NT4832/3CR

NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white).

Assembly - BTicino flush-mounting boxes and plaster board walls


















Boxes	Supporting frames	Modules	Cover plates
 PS562 (Ø 68x68x50)	 L4702G with clips	 2 modules	 L4802..
	 N4702G with clips	 2 modules	 N4802../NT4802TH/NT4802CR
	 500 (Ø 60)	 N4719G with clips	 2 modules
 PS563N (124x66x52)	 L4703 with 2 screws	 3 modules	 L4803...
	 N4703 with 2 screws	 3 modules	 N4803../NT4803TH/NT4803CR
	 503E (106x71x52)	 503ED horizontal and vertical coupler	 N4719 with 2 screws
 503E (106x71x52)	 L4722 with 2 screws	 2 modules	 L4819AC NOTE: AC is the only colour available
	 N4722 with 2 screws	 2 modules	 N4819../NT4819TH/ NT4819CR

NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white). Boxes Item 503E may be coupled with accessory Item 503ED. It is possible to fit the supporting frames with protective sheaths for painting (see section "Accessories").












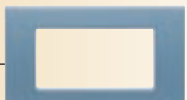


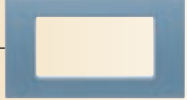





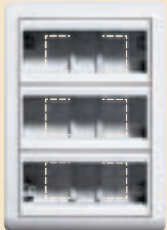

Boxes	Supporting frames	Modules	Cover plates
 504E (132x74x52 mm)	 L4704 with 2 screws	 4 modules	 L4804...
 PS564N (125x68x50 mm)	 N4704N with 2 screws	 4 modules (LIGHT - LIGHT TECH)	 N4804.../NT4804TH/NT4804CR
 PS567N (180x68x50)	 N4704 with 2 screws	 4 modules (LIGHT - LIGHT TECH)	 N4804.../NT4804TH/NT4804CR
 506L (182x83x52)	 L4707 with 4 screws	 7 modules	 L4807...
 506L (182x83x52)	 N4707 with 4 screws	 7 modules (LIGHT - LIGHT TECH)	 N4807.../NT4807TH/NT4807CR
 506E (106x117x52)	 L4726 with 4 screws	 2 x 3 modules	 L4826...*
 506E (106x117x52)	 N4726 with 4 screws	 2 x 3 modules (LIGHT - LIGHT TECH)	 N4826.../NT4826TH/NT4826CR
	 4958 loudspeaker 4070 internal siren	 N4958 loudspeaker N4070 internal siren	 NT4958 loudspeaker NT4070 internal siren

* Not available in bakelite (BK)

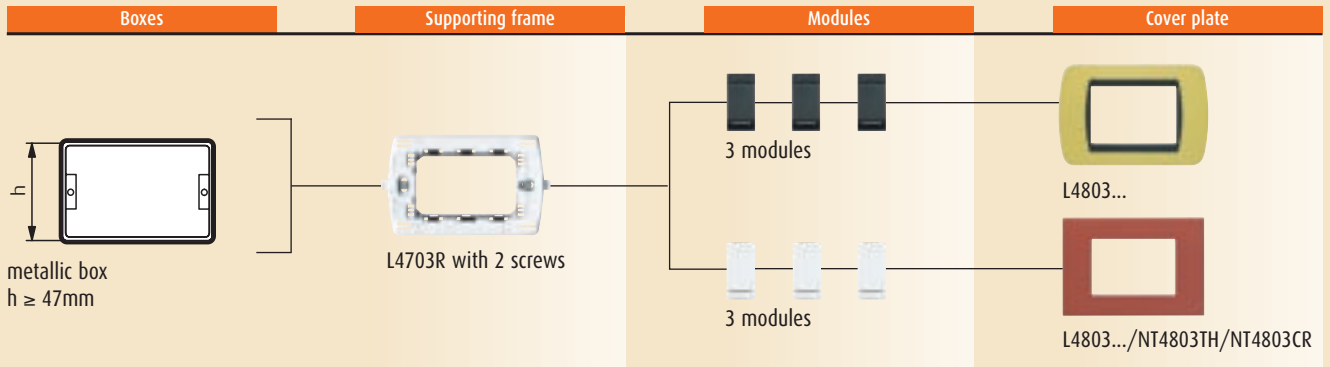
Assembly BTicino wall-mounting boxes

Wall mounting boxes	Supporting frames	Modules	Cover plates
 <p>502LP with supporting frame (93x80x38)</p>		 <p>2 modules</p>	 <p>L4802...</p>
 <p>503LP (120x80x38)</p>	 <p>L4703 with 2 screws</p>	 <p>3 modules</p>	 <p>L4803...</p>
 <p>504LP (140x80x38)</p>	 <p>L4704 with 2 screws</p>	 <p>4 modules</p>	 <p>L4804...</p>
 <p>506LP (118x118x55)</p>	 <p>4958 loudspeaker 4070 internal siren</p>		
 <p>L4714 - with supporting frames and cover plates (215x215x60)</p>		 <p>2 X 7 modules</p>	
 <p>150418GR - with supporting frames and cover plates (173x247x65)</p>		 <p>3 X 6 modules</p>	

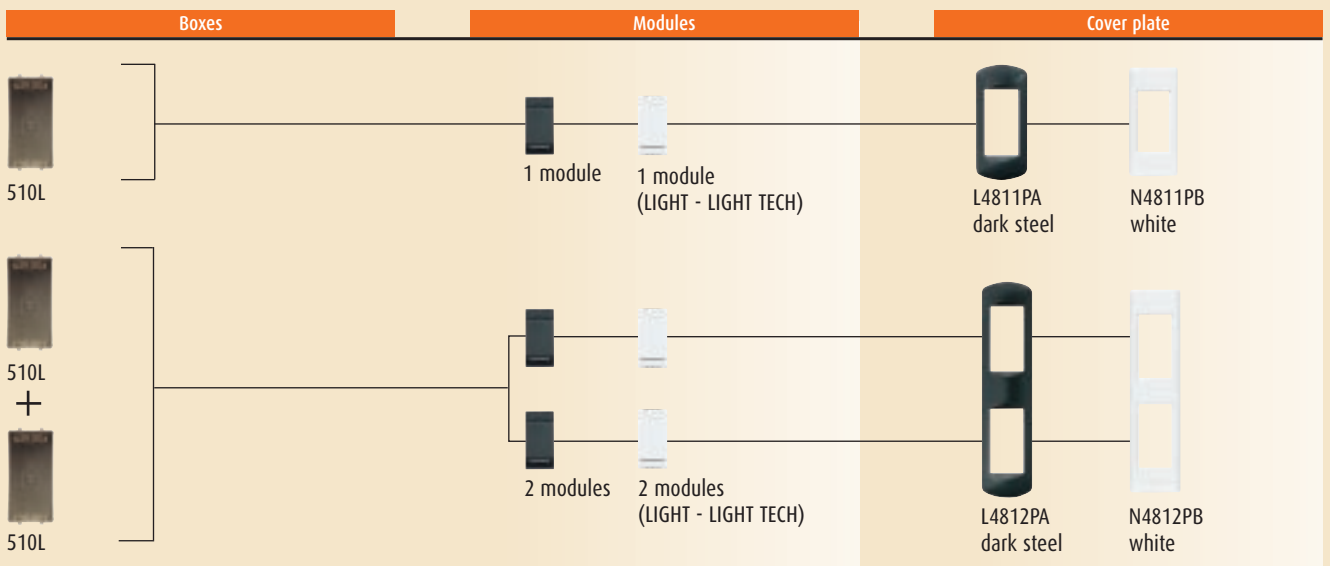
NOTE: cover plates Item number must be completed with the colour code that may be found in the following pages (e.g. N4802LB= 2 - module cover plate, white).

Wall mounting boxes	Supporting frames	Modules	Cover plates
 <p>503NP (114x79x46)</p>	 <p>N4703 with 2 screws</p>	 <p>3 modules (LIGHT - LIGHT TECH)</p>	 <p>N4803... - NT4803...</p>
 <p>503BP (114x79x46)</p>	 <p>N4719 with 2 screws</p>	 <p>2 modules (LIGHT - LIGHT TECH)</p>	 <p>N4819... - NT4819...</p>
 <p>504NP (136x79x46)</p>	 <p>N4704N with 2 screws</p>	 <p>4 modules (LIGHT - LIGHT TECH)</p>	 <p>N4804... - NT4804...</p>
	 <p>N4704 with 2 screws</p>	 <p>4 modules (LIGHT - LIGHT TECH)</p>	 <p>N4804... - NT4804...</p>
 <p>506NP (118x118x55)</p>	 <p>N4958 loudspeaker N4070 internal siren</p>		
	 <p>NT4958 loudspeaker NT4070 internal siren</p>		
 <p>N4714 - with supporting frames and cover plates (215x215x60)</p>		 <p>2 x 7 modules (LIGHT - LIGHT TECH)</p>	
 <p>150418BA - with supporting frames and cover plates (173x247x65)</p>		 <p>3 x 6 modules (LIGHT - LIGHT TECH)</p>	

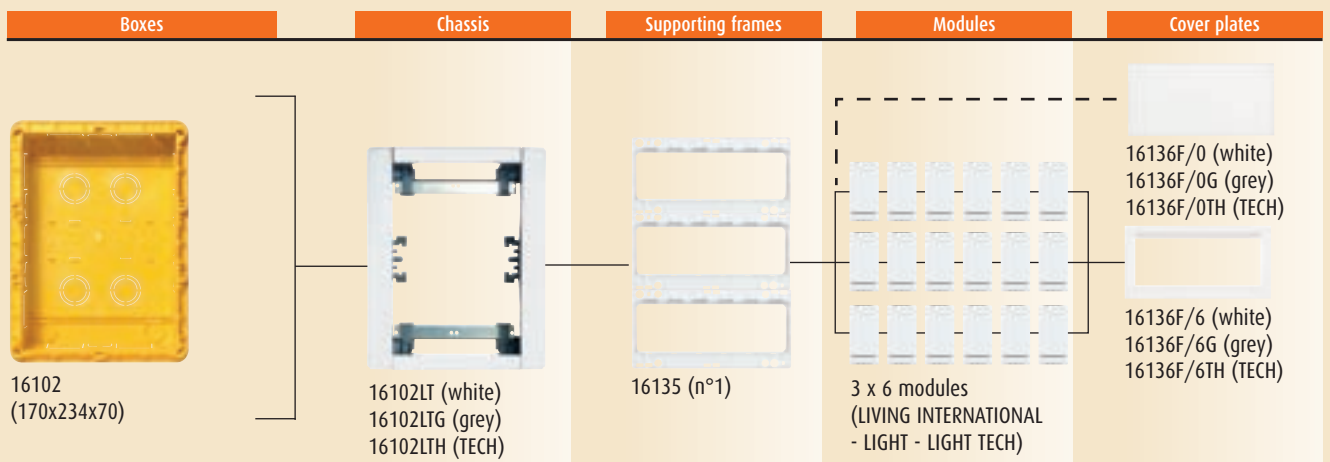
Assembly - Reduced supporting frame with screws for metallic boxes








Boxes for rail





















MULTIBOX flush mounting distribution board



Assembly - Table mounting devices holder

Boxe and supporting frame	Modules	Cover plate
 <p>504LIV (140x90x85)</p>	 <p>4 modules</p>	 <p>L4804...</p>
 <p>150432 (LIVING-black) 150433 (LIGHT-white) 150434 (LIGHT TECH - tech)</p>	 <p>4 modules (LIVING INTERNATIONAL - LIGHT - LIGHT TECH)</p>	

Installation in flush-mounting boxes with protected covers IP55 IDROBOX

Boxes	Modules	IDROBOX protected covers
 <p>503E (106x71x52 mm)</p>	 <p>3 modules</p>	 <p>24603L - LIVING grey</p>
	 <p>3 modules</p>	 <p>24603S stone grey</p>
	 <p>3 modules (LIGHT - LIGHT TECH)</p>	 <p>24603 grey RAL7035</p>
 <p>502 (80x64x48)</p>	 <p>3 modules (LIGHT - LIGHT TECH)</p>	 <p>24603N - LIGHT white</p>
	 <p>2 modules</p>	 <p>24602L - LIVING grey</p>
	 <p>2 modules</p>	 <p>24602S stone grey</p>
	 <p>2 modules (LIGHT - LIGHT TECH)</p>	 <p>24602 grey RAL7035</p>
	 <p>2 modules (LIGHT - LIGHT TECH)</p>	 <p>24602N - LIGHT white</p>

LIVING INTERNATIONAL cover plates




Description	Light aluminium	Dark steel	Light titanium	Oxidized bronze
Metallic				
	AL	AC	TC	BO


Description	Metallic amaranth	Metallic blue	Metallic green	Metallic ochre
Metallescent				
	AT	BT	VT	OT



Description	Solid white	Solid black	Solid red	Solid blue
Contrast				
	BA	NR	RD	BD

Description	Scooter yellow	Terracotta	Drugstore green	Metro blue
Tonal				
	GT	TR	VR	BU

Description	Graphite	Black graphite	Titanium graphite
Graphite			
	GF	GFN	GFT

Description	Bright chrome	True gold	Black nickel
Shiny			
	CR	OR	NN

Description	Native	Bakelite	Brushed steel	Satin Finish Gold
Special				
	NA	BK	ACS	OS**




Description				
Customised cover plates				
	*			




* Upon request, LIVING cover plates may be supplied with graphical customisations. Any customisation, performed with techniques that guarantee high definition and do not etch the coat of paint, may be 1 or 2 colours.
 ** The "Satin Finish Gold" cover plates are available to order.




Description	White	Dark steel
Polymer cover plates		
	PB	PA




NOTES: Versions available: 2-module, 3-module 4-module and 7-module

LIGHT cover plates

Description	Light White	Integral white	Opal white
White	 LB	 IB	 OB


Description	Opal amber	Opal blue	Opal green
Opal	 AP	 BP	 VP



Description	Jelly orange	Jelly blue	Jelly red
Jelly	 AJ	 BJ	 RJ

Description	Pearl yellow	Pearl grey	Pearl azure
Micalescent	 YN	 GN	 AN

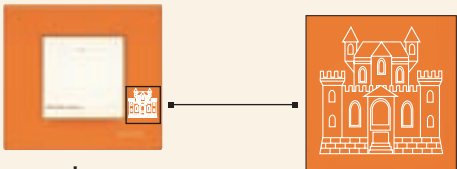
Description	Rubber red	Tea green	Stone grey
Earths	 RE	 VE	 GE

Description	Soft titanium	Glossy silver	Satin-finish gold
Metallic	 TA	 SA	 OS

Description	Satin-finish gold
Metallic	 RA

Description	Natural aluminium	Kristall
Aluminium and KRISTALL	 AA N4819AA - N4803AA N4804AA - N4807AA	 KR

Description	Tech	Chrome
LIGHT TECH	 TH	 CR




Description	
Customised cover plates	 *

* Upon request, LIGHT cover plates may be supplied with graphical customisations. Any customisation, performed with techniques that guarantee high definition and do not etch the coat of paint, may be 1 or 2 colours.

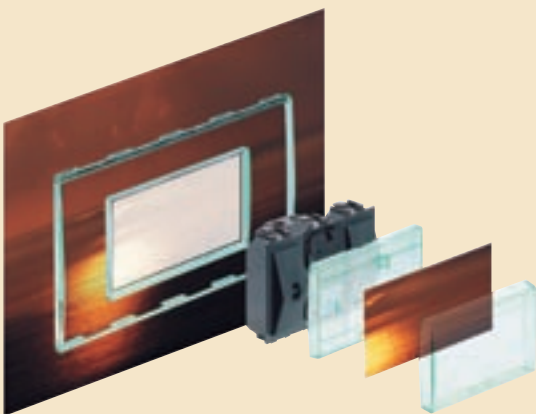
Wood cover plate LIVING INTERNATIONAL

Description	American cherry-wood	Mahogany	European walnut	Briar
LIVING INTERNATIONAL wooden cover plate collections				
	LCA	LMG *	LNC	LRN

Wood cover plate LIGHT

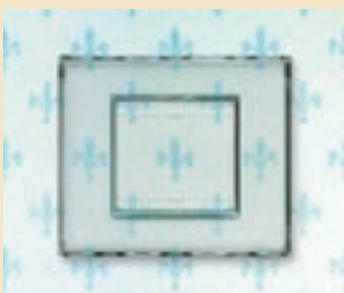
Description	American cherry-wood	Ash	Pear-wood
LIGHT wooden cover plate collection			
	LCA	LFR	LPR

LIGHT KRISTALL cover plate



Thanks to a particular undercover plate that can be dismantled and to its realization in transparent resin, the Kristall cover plate can be personalized by the usage of tapestry if one wishes to camouflage it or by using an image or a photo if one wishes to decorate it as desired. The devices with a transparent key, that are to be matched with the KRISTALL cover plate, allow the personalization of the light point with a desired image for the most complete integration in any architectonic contest.

KRISTALL COVER PLATE EXEMPLES OF USE





CATALOGUE

Basic control devices

LIVING INTERNATIONAL



L4001 L4011
L4003
L4005



L4001/2
L4003/2
L4005/2

LIGHT



N4001 N4001L N4011
N4003 N4003L
N4005 N4005L



N4001/2 N4001L/2
N4003/2 N4003L/2
N4005/2 N4005L/2

LIGHT TECH



NT4001L NT4011
NT4003L
NT4005L



NT4001L/2
NT4003L/2
NT4005L/2

Devices common to the three series:



L4001/0 - L4001LA/0
L4003/0 - L4003LA/0
L4005/0 - L4005LA/0

SWITCH (1 WAY, 2 WAY) - PUSHBUTTON

Lightable 1 way switch, 2 way switch, pushbutton with interchangeable key-cover

Item	Description
L4001	1 way switch 1P 16A - 250V a.c.
N4001L	
NT4001L	
L4001/2	2 modules - as above
N4001L/2	
NT4001L/2	
L4003	2 way switch 1P 16A - 250V a.c.
N4003L	
NT4003L	
L4003/2	2 modules - as above
N4003L/2	
NT4003L/2	
L4005	pushbutton 1P NO 10A - 250V a.c.
N4005L	
NT4005L	
L4005/2	2 modules - as above
N4005L/2	
NT4005L/2	

Lightable 1 way switch, 2 way switch, pushbutton to be completed with key-covers

Item	Description
L4001/0	1 way switch 1P 16A - 250V a.c.
L4003/0	2 way switch 1P 16A - 250V a.c.
L4005/0	pushbutton - 1P NO 10A - 250V a.c.

Lightable controls to be completed with key-cover automatic terminal

Item	Description
L4001LA/0	switch - 1P 16A - 250V a.c.
L4003LA/0	2 way switch - 1P 16A - 250V a.c.
L4005LA/0	pushbutton - 1P 10A - 250V a.c.

Unlightable 1 way switch, 2 way switch, pushbutton with interchangeable key-cover

Item	Description
N4001	1 way switch 1P 16A - 250V a.c.
N4001/2	2 modules - as above
N4003	2 way switch 1P 16A - 250V a.c.
N4003/2	2 modules - as above
N4005	pushbutton - 1P NO 10A - 250V a.c.
N4005/2	2 modules - as above

SWITCH 32A

Item	Description
L4011	switch 2P 32A - 127/250V a.c.
N4011	
NT4011	

Lightable key-covers

LIVING INTERNATIONAL



L4911 L4911/2
L4915 L4915/2



L4911/3
L4915/3



L4911/15

LIGHT

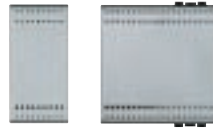


N4911 N4911/2
N4915 N4915/2



N4911/3
N4915/3

LIGHT TECH



NT4911 NT4911/2
NT4915 NT4915/2



NT4911/3
NT4915/3

KEY-COVERS

Interchangeable and lightable key-covers for 1 way switches, 2 way switches, intermediate switches

Item	Description
L4911	1 module
N4911	
NT4911	
L4911/2	2 modules with hinges
N4911/2	
NT4911/2	
L4911/3	3 modules with hinges
N4911/3	
NT4911/3	

Interchangeable and lightable key-covers for pushbuttons

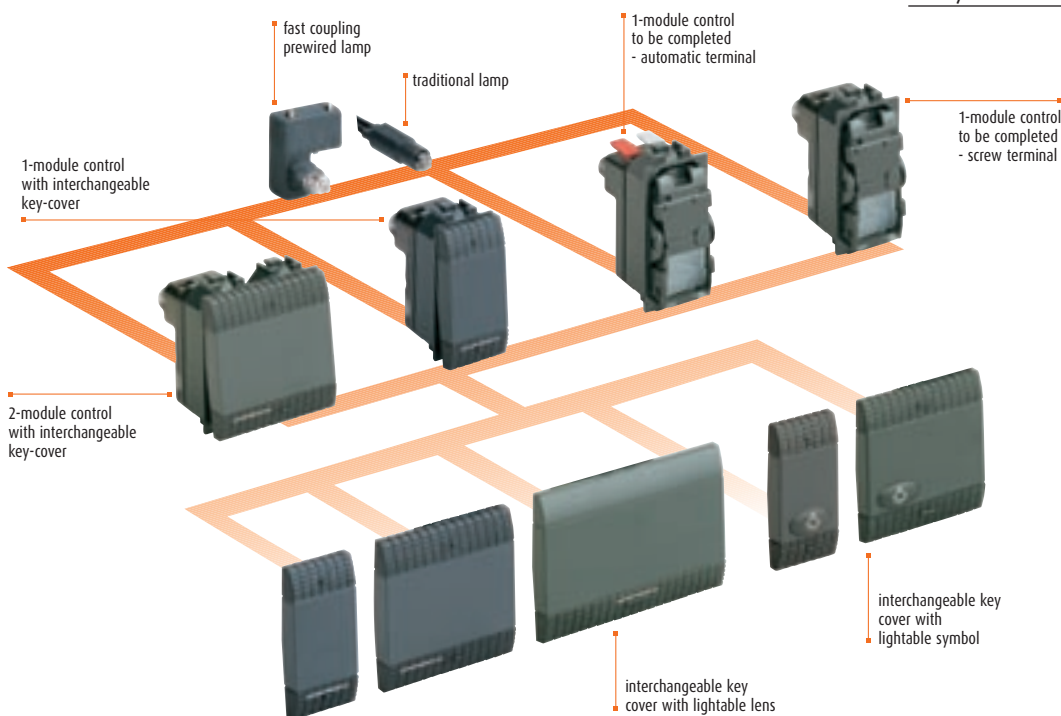
Item	Description
L4915	1 module
N4915	
NT4915	
L4915/2	2 modules with hinges
N4915/2	
NT4915/2	
L4915/3	3 modules with hinges
N4915/3	
NT4915/3	

PAIR OF KEY-COVERS

Pair of key-covers - LIVING INTERNATIONAL for all controls

Item	Description
L4911/15	1.5 modules with hinges

VERSATILE BASIC CONTROL LIVING



Lightable key-covers

LIVING INTERNATIONAL



L4931... L4931/2...



L4931/3...

LIGHT



N4931... N4931/2...



N4931/3...

LIGHT TECH



NT4931TH NT4931/2TH



NT4931/3TH

METAL KEY-COVERS

Lightable interchangeable metal (zama) key-covers for all controls

Item	Description
L4931...	1 module
N4931...	
NT4931...	
L4931/2...	2 modules with hinges
N4931/2...	
NT4931/2TH	
L4931/3...	3 modules with hinges
N4931/3...	
NT4931/3TH	

NOTE: the Item code of the key-covers must be completed with one of the colour codes indicated below (Ex. L4931AC).

LIVING INTERNATIONAL lightable key-covers



AC = dark steel



BA = solid white



OR = real gold

LIGHT key-cover colours



AN = pearl azure



GN = pearl grey



YN = pearl yellow



SA = shiny silver



TA = light titanium

Interchangeable unlightable key-covers

LIVING INTERNATIONAL

LIGHT



N911T N4911/2T



N4915T N4915/2T

LIGHT TECH



NT4911T NT4911/2T



NT4915T NT4915/2T

LIGHT AND LIGHT TECH KEY-COVERS

For 1 way switches, 2 way switches, intermediate switches

Item	Description
N4911T	1 module
NT4911T	
N4911/2T	2 modules with hinges
NT4911/2T	

For pushbuttons

Item	Description
N4915T	1 module
NT4915T	
N4915/2T	2 modules with hinges
NT4915/2T	

LIGHT KRISTALL



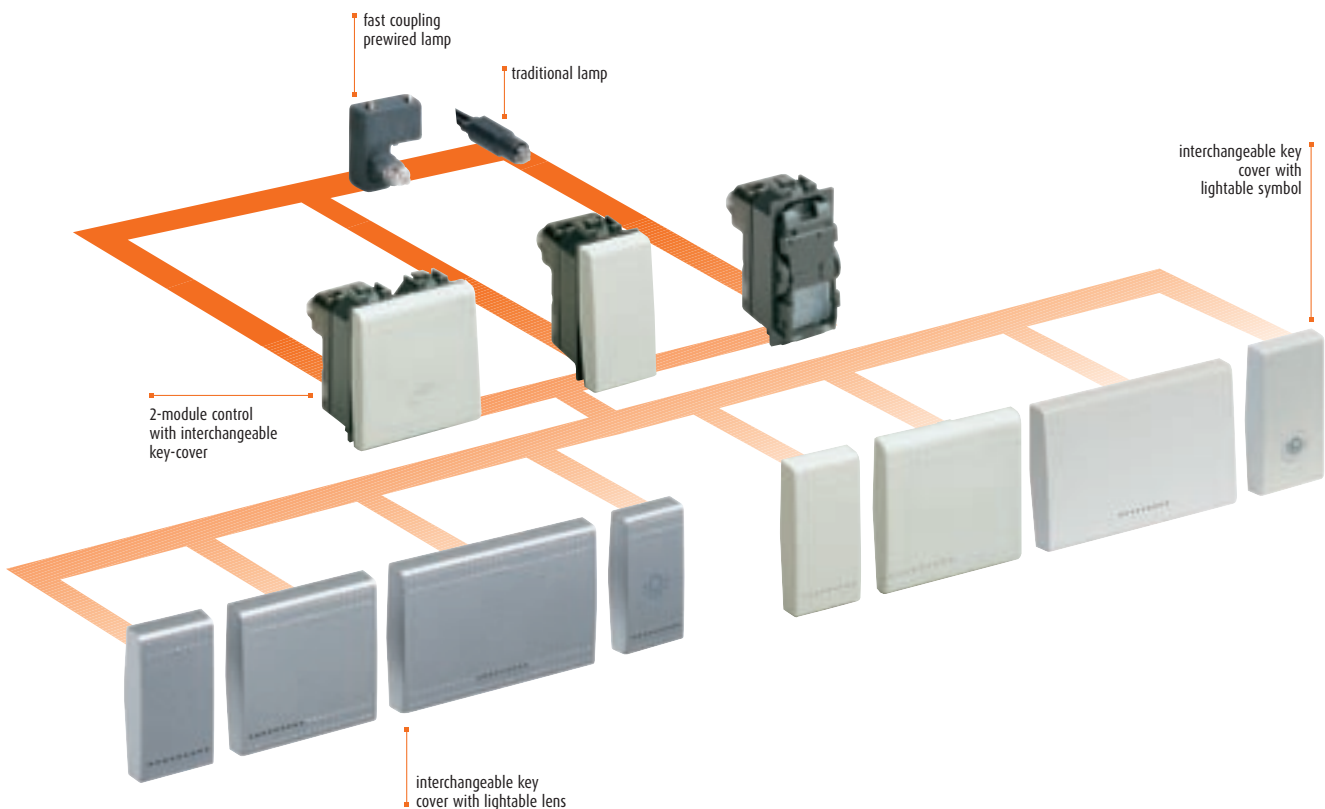
N4932 N4932/2 N4932/3

KRISTALL KEY-COVERS

For all controls

Item	Description
N4932	1 module
N4932/2	2 modules - with hinges
N4932/3	3 modules - with hinges

VERSATILE BASIC CONTROL LIGHT AND LIGHT TECH



Key-covers with lightable symbols

LIVING INTERNATIONAL



L4921... L4921/2...



L4925... L4925/2...

LIGHT



N4921L... N4921L/2...



N4925L... N4925L/2...

LIGHT TECH



NT4921L... NT4921L/2...



NT4925L... NT4925L/2...

KEY-COVERS

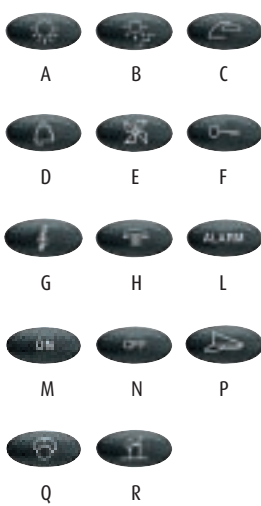
Interchangeable key-covers with lightable symbols for 1 way switches, 2 way switches, intermediate switches

Item	Description
L4921...	1 module
N4921L...	
NT4921L...	
L4921/2...	2 modules with hinges
N4921L/2...	
NT4921L/2...	

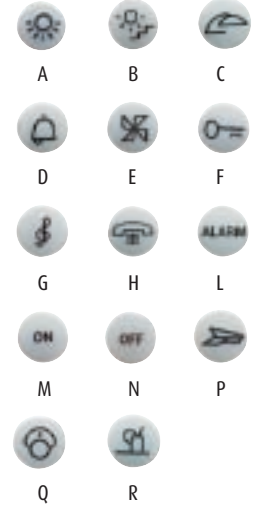
Interchangeable key-covers with lightable symbols for pushbutton

Item	Description
L4925...	1 module
N4925L...	
NT4925L...	
L4925/2...	2 modules with hinges
N4925L/2...	
NT4925L/2...	

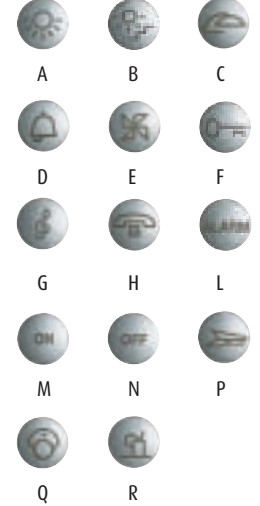
symbols



symbols



symbols



Control devices

LIVING INTERNATIONAL



L4002 L4012 L4391
L4022



L4004 L4004/2



L4027 L4028H



L4016

LIGHT



N4002 N4012 N4931
N4022



N4004 N4004L N4004L/2



N4027 N4028H



N4016

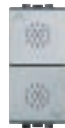
LIGHT TECH



NT4002 NT4012 NT4931
NT4022



NT4004L



NT4027



NT4016

SWITCHES 16A 250V A.C.

Item	Description
L4002	2P 1 way switch
N4002	
NT4002	
L4012	2P key operated 1 way switch
N4012	
NT4012	

JACK OPERATED SWITCH

Item	Description
L4391	Jack operated switch with 2 NO contacts - 48V 10A (for plug Item
N4391	
NT4391	2124N see page dedicated to plugs)

2 WAY SWITCH 16A 250V A.C.

Item	Description
L4022	1P key operated 2 way switch
N4022	
NT4022	

INTERMEDIATE SWITCH 16A 250V A.C.

Item	Description
L4004	1P intermediate switch, prepared for interchangeable and lightable key-covers with lamps Item 11250L, 11250LV, 11251L and 11252L (lightable)
N4004	as above - unlightable
L4004/2	2 modules - as above (lightable)
N4004L/2	2 modules - as above (lightable)

CHANGEOVER SWITCH 16A 250V A.C.

Item	Description
L4027	1P double pushbutton switch 1-0-2
N4027	
NT4027	
L4028H	1P double pushbutton switch 3 position for hotel installation - room condition indications: "Please don't disturb" and "Please make-up the room"
N4028H	

ROTARY SWITCH 3A 250V A.C.

Item	Description
L4016	Selector - 1 way rotary switch - 4
N4016	positions for controlling air conditioners, fans control, etc.
NT4016	

JACK

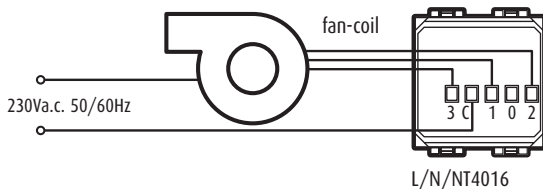
Item	Description
2124N	Jack for item L/N/NT4391

DEVICES COMMON TO THE THREE SERIES



2124N

EXAMPLE OF USE ITEM L/N/NT4016



Control devices and relays

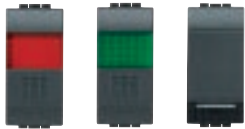
LIVING INTERNATIONAL



L4034 L4036 L4037



L4033



L4038R L4038V L4044



L4040 L4330/230
L4330/12
L4330/24

LIGHT



N4034 N4036 N4037



N4033



N4038R N4038V N4044



N4040 N4330/230
N4330/12
N4330/24

LIGHT TECH



NT4034 NT4036 NT4037



NT4033



NT4038R NT4038V NT4044



NT4040 NT4330/230
NT4330/12
NT4330/24

PUSHBUTTONS 10A 250V A.C.

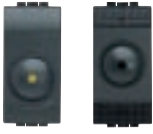
Item	Description
L4034	1P NC pushbutton, prepared for interchangeable key-covers
N4034	
NT4034	
L4036	Double pushbutton 1P (NO) + 1P (NO)
N4036	
NT4036	
L4037	Interlocked double pushbutton 1P (NO) + 1P (NO)
N4037	
NT4037	
L4033	1P (NO) cord pushbutton
N4033	
NT4033	
L4038R	1P (NO) pushbutton + lamp-holder for lamps 11250L, 11251L or 11252L - red diffuser
N4038R	
NT4038R	
L4038V	As above - for lamps 11250LV, 11251LV or 11252LV - green diffuser
N4038V	
NT4038V	
L4044	2P (NO) pushbutton with independent contacts for traditional hospital system
N4044	
NT4044	
L4040	1P (NO) pushbutton + lightable name plate with lamps L4743/12, L4743/24, L4744/230 and L4744/230V
N4040	
NT4040	

MONOSTABLE RELAYS

Item	Description
L4330/230	Monostable relay with NO/NC contact 250V a.c. 10A (resistive) 4A (inductive) coil power supply 230V a.c.
N4330/230	
NT4330/230	
L4330/12	As above - coil power supply 12V a.c.
N4330/12	
NT4330/12	
L4330/24	As above - coil power supply 12V a.c.
N4330/24	
NT4330/24	

Dimmer

LIVING INTERNATIONAL



L4406 L4402
L4581

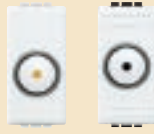


L4413
L4582



L4416 L4583
L4407
L4407/127

LIGHT



N4406 N4402
N4581

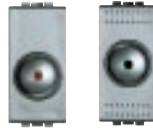


N4413
N4582



N4416 N4583
N4407
N4407/127

LIGHT TECH



NT4406 NT4402



NT4413



NT4416
NT4407

DIMMER

Item	Description
L4402	Rotary dimmer built-in two way
N4402	switch - MOS FET tech. - built-in fuse
NT4402	- 1 modules
L4406	Rotary dimmer - 1 modules
N4406	
NT4406	
L4407	Touch dimmer for electronic transformer
N4407	- 2 modules
NT4407	
L4407/127	As above-voltage
N4407/127	110-127V a.c.
L4413	Touch dimmer- TRIAC/IGBT tech. SOFT
N4413	START and SOFT STOP anti-dazzling
NT4413	function - built-in fuse - 2 modules
L4581	Rotary dimmer - 1 modules
N4581	
L4582	Touch dimmer - 2 modules
N4582	
L4583	Rotary dimmer - 2 modules
N4583	

NOTA: to choose the dimmer according to the technical features see the table below

SLAVE/DIMMER

Item	Description
L4416	"Slave dimmer" TRIAC/IGBT tech.
N4416	SOFT START and SOFT STOP
NT4416	anti-dazzling function - built-in fuse
	- For increasing the installed power
	controlled by a main dimmer
	(Item L/N/NT4413) - 2 modules

ELECTRONIC TRANSFORMERS

Electronic transformers for halogen lamps

Item	Description
L4405/60	Electronic transformer for low voltage
	halogen lamps - supply 230Va.c.
	- 50Hz - output 12V - controllable
	power 20W to 60W
L4405/105	As above - controllable power 35W to
	105W

DEVICES COMMON TO THE THREE SERIES



L4405/60 - L4405/105

Table to choose the dimmers

Loads Type	Power	Voltage (Va.c.)	Frequency (Hz)	Item
Resistive	60 to 500 W	230	50	L/N/NT4402
Resistive	100 to 500 W	230	50 and 60	L/N/NT4406
For electronic transformer	60 to 250 VA	230	50	L/N/NT4407
For electronic transformer	50 to 250 VA	110-127	50 and 60	L/N4407/127
Resistive-ferromagnetic transf.	60 to 500 VA	230	50	L/N/NT4413
Resistive	50 to 500 W	127	50 and 60	L/N4581
	50 to 1000 W	230		
Ferromagnetic transf.	50 to 500 W	127	50 and 60	L/N4582
Resistive	50 to 1000 W	230		
Ferromagnetic transf.	50 to 300 W	127	50 and 60	L/N4583
Resistive	50 to 500 W	230		
Resistive	60 to 500 W	230	50	L/N/NT4416

Electronic control devices

LIVING INTERNATIONAL



L4425 L4426
L4425/127 L4426/127



L4432
L4432/127



L4431 L4545

LIGHT



N4425 N4426
N4425/127 N4426/127



N4432
N4432/127



N4431 N4545

LIGHT TECH



NT4425 NT4426



NT4432



NT4431 NT4545

DEVICES COMMON TO THE THREE SERIES



L4531 - L4532



L4546



4482/7



4482/16

IR RECEIVERS WITH BUILT-IN RELAY

Item	Description
L4425	1 channel receiver with relay output
N4425	- cyclic or monostable 6A cosφ 1 relay function - 230Va.c., 50 and 60Hz - 2 modules
NT4425	
L4425/127	as above - 110/127Va.c., 50 and 60Hz
N4425/127	
L4426	2 channel receiver module with output through 2 interlocked relays 4A cosφ 1 - 230Va.c. 50 and 60Hz
N4426	
NT4426	
L4426/127	as above - 110/127Va.c., 50 and 60Hz
N4426/127	

PASSIVE IR SWITCHES

Item	Description
L4431	Switch with passive IR movement detector - relay output 6A resistive/2A inductive - 230Va.c. - 50 and 60 Hz
N4431	
NT4431	
L4432	as above - can be activated from external pushbuttons too - relay output 6A resistive/2A inductive - with O-A-I selector - 230Va.c., 50 and 60Hz - 2 modules
N4432	
NT4432	
L4432/127	as above - 110/127Va.c.
N4432/127	

CODED KEY

Item	Description
L4531	Combination control with insertion of a 4 digit customizable code - switch function - non-powered contact 6A cosφ 1 at 250Va.c. and 8A at 35Vd.c. - 230Va.c., 50 and 60Hz - 2 modules
L4532	control as above - pushbutton function

KEY FOB SWITCH

Item	Description
L4545	Key fob switch for lights and devices control in hotel rooms - time-lag switching off - max. load 30VA - 230Va.c. - 3 modules
N4545	
NT4545	
L4546	Key fob for switch - as above

REMOTE CONTROLS

Item	Description
4482/7	7 channel IR remote control - powered with two 1.5V batteries type AAA
4482/16	16 channel IR remote control - powered with four 1.5V batteries type AAA

Socket outlets – Italian standard

LIVING INTERNATIONAL



L4113 L4119 L4180



L4115 L4180/2



L4180/3

LIGHT



N4113 N4119 N4180

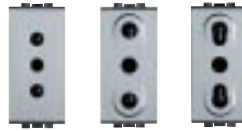


N4115 N4180/2

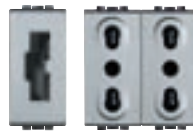


N4180/3

LIGHT TECH



NT4113 NT4119 NT4180



NT4115 NT4180/2



NT4180/3

SOCKET OUTLETS – ITALIAN STANDARD

Item	Description
L4113	Socket 2P+E 10A 250Va.c. - center line of holes 19mm - shuttered contact tubes Ø 4mm
N4113	
NT4113	
L4119	Socket 2P+E 16A 250Va.c. - center line of holes 26mm - shuttered contact tubes Ø 5mm
N4119	
NT4119	
L4180	Socket 2P+E 10A/16A 250Va.c. - center line of holes 19mm and 26mm - shuttered contact tubes
N4180	
NT4180	
L4115	Irreversible safety socket 2P+E 10A 250Va.c. for plug Item 2200NA or 2200NN (see pages dedicated to the plug)
N4115	
NT4115	

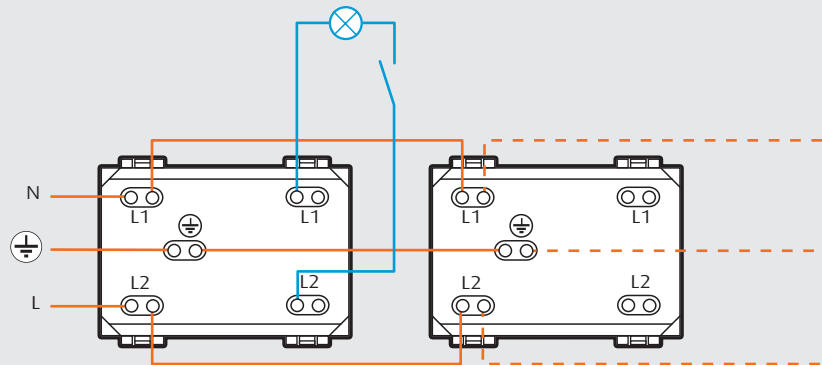
DUPLEX AND TRIPLEX SOCKET OUTLETS

Item	Description
L4180/2	Enbloc unit with two sockets 2P+E 10A and 16A 250V a.c. - center distance 19mm and 26mm - shuttered
N4180/2	
NT4180/2	
L4180/3	Enbloc unit with three sockets 2P+E 10A and 16A 250V a.c. - center distance 19mm and 26mm - shuttered
N4180/3	
NT4180/3	

Duplex / Triplex



Back



NOTE: double and triple pre-wired 10/16A socket with auxiliary terminals for small shunt.

Socket outlets – Italian standard

LIVING INTERNATIONAL



L4140 L4141



L4140/16



L4177

LIGHT



N4140 N4141

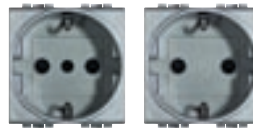


N4140/16



N4177

LIGHT TECH



NT4140 NT4141

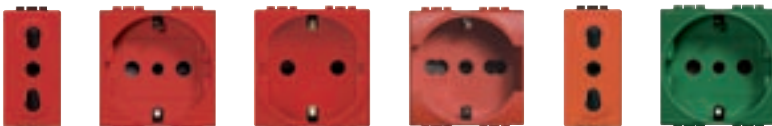


NT4140/16



NT4177

DEVICES COMMON TO THE THREE SERIES



L4180R L4140R L4141R L4140/16R * *

SOCKET OUTLETS – ITALIAN STANDARD

Item	Description
L4140	Socket 2P+E 10/16A with side contacts and central earthing-contact for SCHUKO sockets and 10A plugs with lined up pins - type P30 - center line of holes 19mm - shuttered contact tubes
N4140	
NT4140	
L4141	Socket 2P+E 10/16A with side earthing-contact of SCHUKO type - shuttered contact tubes
N4141	
NT4141	
L4140/16	Socket 2P+E 16A with side contacts and central earthing-contact for SCHUKO sockets and P30 type plugs with lined up pins 10/16A 250Va.c. - center line of holes 19mm - shuttered contact tubes
N4140/16	
NT4140/16	

SHAVER SOCKET

Item	Description
L4177	Shaver socket with insulating transformer - supply 230Va.c. 50 and 60Hz - output 115/230Va.c. 20VA
N4177	
NT4177	
L4177/127	As above - supply 127Va.c. 50 and 60Hz - output 127/230Va.c.
N4177/127	
NT4177/127	

RED SOCKET OUTLETS

Red socket outlets for preferential users

Item	Description
L4180R	Socket 2P+E 10A/16A 250Va.c. - center line of holes 19mm - shuttered contact tubes
L4140R	Socket 2P+E 16A with side contacts and central earthing-contact for Schuko sockets and P30 type plugs with lined up pins - center line of holes 19mm - shuttered contact tubes
L4140/16R	Socket 2P+E 10/16A 250Va.c. with side contacts and central earthing-contact for Schuko sockets and P30 type plugs with lined up pins center line of holes 19mm and 26mm - shuttered contact tubes
L4141R	Socket 2P+E 10/16A with side earthing-contact for Schuko sockets - shuttered contact tubes
***	The socket outlets are available in other colours too. Before ordering, please get in touch with the local BTicino sales organisation.

Socket outlets – European standards

LIVING INTERNATIONAL



L4142

L4143



L4144

L4145



L4146

L4147



L4148A

LIGHT



N4142

N4143



N4144

N4145



N4146

N4147



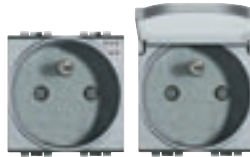
N4148A

LIGHT TECH



NT4142

NT4143



NT4144

NT4145



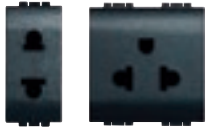
NT4148A

SOCKET OUTLETS - EUROPEAN STANDARDS

Item	Description
L4142	Socket 2P+E 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
N4142	Socket 2P+E 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
NT4142	Socket 2P+E 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
L4143	Socket 2P 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
N4143	Socket 2P 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
NT4143	Socket 2P 10/16A 250Va.c. - shuttered contact tubes - French standard - 2 modules
L4144	Socket as above 2P+E 10/16A 250Va.c. - with pilot lamp - 2 modules
N4144	Socket as above 2P+E 10/16A 250Va.c. - with pilot lamp - 2 modules
NT4144	Socket as above 2P+E 10/16A 250Va.c. - with pilot lamp - 2 modules
L4145	Socket as above 2P+E 10/16A 250Va.c. - with cover - 2 modules
N4145	Socket as above 2P+E 10/16A 250Va.c. - with cover - 2 modules
NT4145	Socket as above 2P+E 10/16A 250Va.c. - with cover - 2 modules
L4146	Socket 2P 10/16A 250Va.c. with indexing slot
N4146	Socket 2P 10/16A 250Va.c. with indexing slot
NT4146	Socket 2P 10/16A 250Va.c. with indexing slot
L4147	Socket 2P 10/16A 250Va.c. with indexing slot and pilot lamp
N4147	Socket 2P 10/16A 250Va.c. with indexing slot and pilot lamp
NT4147	Socket 2P 10/16A 250Va.c. with indexing slot and pilot lamp
L4148A	SCHUKO socket 2P + T 10/16A with automatic terminals - Germany standard - 2 modules
N4148A	SCHUKO socket 2P + T 10/16A with automatic terminals - Germany standard - 2 modules
NT4148A	SCHUKO socket 2P + T 10/16A with automatic terminals - Germany standard - 2 modules

Socket outlets – Euro-American standard

LIVING INTERNATIONAL



L4125S L4126S
L4125 L4126



L4127S L4128S
L4127 L4128



L4185S L4129S
L4185



L4188S
L4188

LIGHT



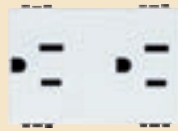
N4125S N4126S
N4125 N4126



N4127S N4128S
N4127 N4128

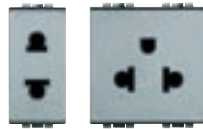


N4185S N4129S
N4185

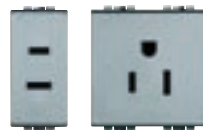


N4188S
N4188

LIGHT TECH



NT4125S NT4126S
NT4125 NT4126



NT4127S NT4128S
NT4127 NT4128



NT4185S
NT4185



NT4188S
NT4188

SOCKET OUTLETS

Socket outlets – Euro-American standard

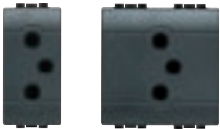
Item	Description
L4125S	Socket 2P 16A 127/250Va.c. -
N4125S	unshuttered contact tubes -
NT4125S	Euro-American standard
L4125	As above - 127/250Va.c. - shuttered
N4125	contact tubes
NT4125	
L4126S	Socket 2P+E 16A 127/250Va.c. -
N4126S	unshuttered contact tubes -
NT4126S	Euro-American standard - 2 modules
L4126	As above - 127/250Va.c. - shuttered
N4126	contact tubes
NT4126	
L4127S	Socket 2P 15A 127/250Va.c. -
N4127S	unshuttered contact tubes -
NT4127S	American standard
L4127	As above - 127/250Va.c. - shuttered
N4127	contact tubes
NT4127	
L4128S	Socket 2P+E 15A 127/250Va.c.
N4128S	- unshuttered contact tubes -
NT4128S	American standard - 2 modules
L4128	As above - 127/250Va.c. - shuttered
N4128	contact tubes
NT4128	
L4185S	Universal duplex socket 2P+E 16A
N4185S	127/250Va.c. - unshuttered contact
NT4185S	tubes - Euro-American standard -
	3 modules
L4185	As above - 127/250Va.c. - shuttered
N4185	contact tubes
NT4185	
L4129S	Socket 2P+E 15A 127/250Va.c.
N4129S	- unshuttered contact tubes -
	American standard - 1 module
L4188S	Universal duplex socket 2P+E 15A
N4188S	127/250Va.c. - unshuttered contact
NT4188S	tubes - American standard -
	3 modules
L4188	As above - 127/250Va.c. - shuttered
N4188	contact tubes
NT4188	

Socket outlets – different standards

LIVING INTERNATIONAL



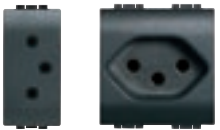
L4122 L4122/2



L4124 L4124/2

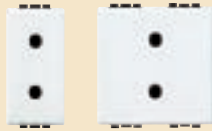


L4183 L4122ET

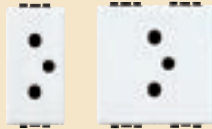


L4164/12 L4164/13

LIGHT



N4122 N4122/2

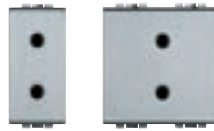


N4124 N4124/2

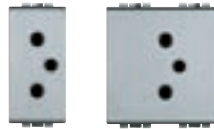


N4183 N4122ET

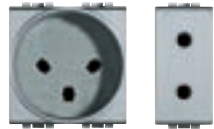
LIGHT TECH



NT4122 NT4122/2



NT4124 NT4124/2



NT4183 NT4122ET

SOCKET OUTLETS

Socket outlets – different standards

Item	Description
L4122	Socket 2P 10A 250V _{a.c.} - contact tubes Ø 4mm - center line of holes
N4122	19mm - Spanish standard
NT4122	Socket as above - 2 modules
L4122/2	Socket as above - 2 modules
N4122/2	Socket as above - 2 modules
NT4122/2	Socket as above - 2 modules
L4124	Socket 2P+E 10A 250V _{a.c.} - contact tubes Ø 4mm - center line of holes
N4124	19mm - off-center earthing contact tube - Spanish standard
NT4124	Socket as above - 2 modules
L4124/2	Socket as above - 2 modules
N4124/2	Socket as above - 2 modules
NT4124/2	Socket as above - 2 modules
L4183	Socket 2P+E 10/16A 250V _{a.c.} - special standard - 2 modules
N4183	Socket as above - 2 modules
NT4183	Socket as above - 2 modules
L4122ET	Socket 2P 10A 250V _{a.c.} - contact tubes Ø 4 - 4.8mm - center line of holes 19mm - Egypt standard
N4122ET	Socket as above - 2 modules
NT4122ET	Socket as above - 2 modules
L4164/12	Socket 2P+E 10A 250V _{a.c.} - Swiss standard - 1 module
L4164/13	Socket as above - 2 modules

TV + SAT jacks

LIVING INTERNATIONAL



L4202D L4205D/2
L4202P L4201D/2
L4202PT L4201P/2
L4202DC

LIGHT



N4202D N4205D/2
N4202P N4201D/2
N4202PT N4201P/2
N4202DC

LIGHT TECH



NT4202D NT4205D/2
NT4202P NT4201D/2
NT4202PT NT4201P/2
NT4202DC

SCREENED TV + SAT JACK

Screened TV + SAT jacks in die-cast housing with current flow

Item	Description
L4202D	Shunted coaxial jack - Ø 9.5mm
N4202D	- male connector - 1 module
NT4202D	
L4205D/2	Jack as above - female connector - 2 modules
N4205D/2	
NT4205D/2	
L4202P	As above, pass-through jack
N4202P	
NT4202P	
L4202PT	As above, pass-through jack - with built-in 75Ω impedance adapter
N4202PT	
NT4202PT	



L4210D



N4210D



NT4210D

SCREENED TV JACK

Screened TV jack in die-cast housing without current flow

Item	Description
L4202DC	Shunted coaxial jack - Ø 9.5mm
N4202DC	- male jack - 1 module
NT4202DC	
L4201D/2	As above - female jack - 2 modules
N4201D/2	
NT4201D/2	
L4201P/2	Pass-through coaxial jack - Ø 9.5mm
N4201P/2	
NT4201P/2	

DEVICES COMMON TO THE THREE SERIES



S2133



75RT (N)

SCREENED TV + RD + SAT JACKS

Screened TV + RD + SAT jacks in die-cast housing with current flow

Item	Description
L4210D	As above - for installation into rectangular box Item 503E, 504E, 506L
N4210D	
NT4210D	
L4211D	Double coaxial shunted jack for TV and
N4211D	FM-LMC reception - Ø 9.5mm
NT4211D	

TYPE F TV JACK

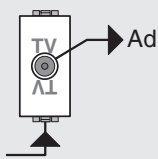
Item	Description
L4269F	Type F TV female connector - 75Ω impedance - screw coupling
N4269F	
NT4269F	

PLUGS

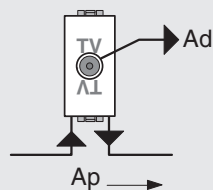
Plugs, mobile TV jacks and terminal resistance

Item	Description
S2133	Mobile TV plug and jack - Ø 9.5mm - white - for TV + SAT jacks and L/N/NT4206D
75RT(N)	Terminal resistance for lines closing with 75Ω impedance in installations with cascade connection - to be added to the last pass-through jack

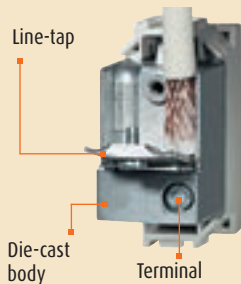
Shunted jacks



Pass-through jacks



Back view



Connectors

RJ45

LIVING INTERNATIONAL



L4279/5E
L4279/6

L4279/5S
L4279/6S



L4262/5E
L4262/6

L4262/5S
L4262/6S

L4261AT5
L4261AT6



L4262

LIGHT



N4279/5E
N4279/6

N4279/5S
N4279/6S



N4262/5E
N4262/6

N4262/5S
N4262/6S

N4261AT5
N4261AT6



N4262

LIGHT TECH



NT4279/5E
NT4279/6

NT4279/5S
NT4279/6S



NT4262/5E
NT4262/6

NT4262/5S
NT4262/6S

NT4261AT5
NT4261AT6



NT4262

RJ45 CONNECTORS

RJ 45 data transmission/telephone connectors. Specially designed for data and telephone transmission. These connectors are widely used for computer networks with a 4-pair cable.

Item	Jack type	Cat.	For plug Item	Connection type
L4262/5E N4262/5E NT4262/5E	RJ45	5E	2841/4	with insul.(1) UTP
L4262/6 N4262/6 NT4262/6	RJ45	6	2841/4	with insul.(1) UTP
L4262/5S N4262/5S NT4262/5S	RJ45	5E	-	with insul.(1) FTP
L4262/6S N4262/6S NT4262/6S	RJ45	6	-	with insul.(1) FTP
L4279/5E N4279/5E NT4279/5E	RJ45	5E	2841/4	with insul. toolless type UTP
L4279/6 N4279/6 NT4279/6	RJ45	6	2841/4	with insul. toolless type UTP
L4279/5S N4279/5S NT4279/5S	RJ45	5E	2841/4	with insul. toolless type FTP
L4279/6S N4279/6S NT4279/6S	RJ45	6	2841/4	with insul. toolless type FTP
L4261AT5 N4261AT5 NT4261AT5	RJ45	5	2841/4	with insul.(2) UTP
L4261AT6 N4261AT6 NT4261AT6	RJ45	6	2841/4	with insul.(2) UTP
L4262 N4262 NT4262	RJ45	3	2841/4	with insul.(3) UTP

1) connection type 110.

2) connection type SYSTIMAX.

3) connection with AMP Barrel.

Data and telephone sockets

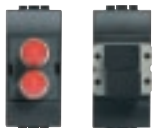
LIVING INTERNATIONAL



L4267/12 L4262/12N L4277/12



L4258/11N L4262/11 L4231
L4258/12 L4262/12 L4231S

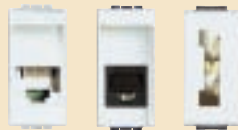


L4268ST L4268SC

LIGHT



N4267/12 N4262/12N N4277/12



N4258/11N N4262/11 N4231
N4258/12 N4262/12 N4231S



N4268ST N4268SC

LIGHT TECH



NT4267/12 NT4262/12N NT4277/12



NT4258/11N NT4262/11 NT4231
NT4258/12 NT4262/12 NT4231S



NT4268ST NT4268SC

RJ11 - 12 TELEPHONE CONNECTORS

These connectors have been designed for meeting the requirements of telephone connections.

Item	Jack type	For plug Item	Connection type
L4267/12	RJ12	2841/2	with insul.(1)
N4267/12		2841/3	
NT4267/12			
L4258/11N	RJ11	2841/2	K10
N4258/11N			
NT4258/11N			
L4258/12	RJ12	2841/2	K10
N4258/12		2841/3	
NT4258/12			
L4262/11	RJ11	2841/2	with insul.(1)
N4262/11			
NT4262/11			
L4262/12	RJ12	2841/2	with insul.(1)
N4262/12		2841/3	
NT4262/12			
L4262/12N	RJ12	2841/3	with insul.(1)
N4262/12N			
NT4262/12N			
L4277/12	RJ12	2841/3	with insul.(1)
N4277/12			toolless type
NT4277/12			

1) connection type 110.

TELEPHONE SOCKETS

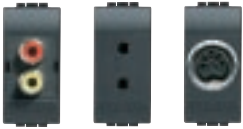
Item	Description
L4231	Telephone socket with line
N4231	interruption downstream - for plug
NT4231	Item 2021
L4231S	Phone socket without line interruption
N4231S	downstream - for plug Item 2021
NT4231S	

JACK FOR OPTICAL FIBER CONNECTIONS

Item	Description
L4268ST	Coupling jack for optical fiber - ST
N4268ST	cable socket - duplex
NT4268ST	
L4268SC	Coupling jack for optical fiber - SC
N4268SC	cable socket - duplex
NT4268SC	

Data sockets

LIVING INTERNATIONAL



L4269R L4291 L4292



L4265 L4293

LIGHT



N4269R N4291 N4292



N4265 N4293

LIGHT TECH



NT4269R NT4291 NT4292



NT4265 NT4293

SPECIAL SOCKET OUTLETS

Item	Description
L4269R	RCA type double connector - with red and yellow collars - to crimp
N4269R	
NT4269R	
L4291	Mini socket 2P - contact tubes \varnothing 3mm - center line of holes 13mm - for auxiliary and similar circuits - 6A 24V SELV - terminal connection (for plug 2120 see pages on plugs)
N4291	
NT4291	
L4292	5 pole DIN connector for hi-fi and similar devices - to weld
N4292	
NT4292	
L4293	2 pole DIN connector - to weld
N4293	
NT4293	

AMP C.O. SYSTEM

Item	Description
L4265	Housing for interchangeable modules for distribution through shielded and unshielded cable - cat5 with IDC connector
N4265	
NT4265*	

* this Item can be combined with LIVING INTERNATIONAL or LIGHT interchangeable modules

Control

LIVING INTERNATIONAL



L4441 L4442
L4442/127



L4448
L4448/127



L4449

LIGHT



N4441 N4442
N4442/127



N4448
N4448/127



N4449

LIGHT TECH



NT4441 NT4442



NT4448

ROOM THERMOSTAT

Item	Description
L4441 N4441 NT4441	Electronic room thermostat for heating and conditioning systems designed to be connected to a "summer/winter" commutator - regulation field for temperature 5-30°C - 2 leds to signal the functional condition - relay output with 1 commutation contact 2A 250Va.c. - power supply 230V a.c., 50 and 60Hz - 2 modules
L4442 N4442 NT4442	Electronic room thermostat for heating and conditioning systems with a built-in "summer/winter" commutator - regulation field for temperature 5-30°C - 2 leds to signal the functional condition - relay output with a C-NO 2A 250V a.c. contact - power supply 230V a.c., 50 and 60Hz - 2 modules
L4442/127 N4442/127	As above - power supply 127Va.c., 50 and 60Hz

CHRONOTHERMOSTAT

Item	Description
L4448 N4448 NT4448	Daily/weekly electronic chronothermostat for heating and conditioning systems - functioning: commutation on 4 programmes - liquid crystal display - back-up battery - power supply 230V a.c. - output contact in exchange 2A cosφ 0,5 - 5A cosφ 1 230V a.c., 50 Hz - 3 modules
L4448/127 N4448/127	As above - power supply 127Va.c., 50 and 60Hz
L4449 N4449	Daily/weekly electronic chronothermostat for heating and conditioning systems - functioning: commutation on 7 programmes - liquid crystal display - power supply with batteries 2X1,5V - possibility of connection to a temperature and remote teleactivationan external probe - output contact in exchange 1A 230V a.c. - 3 modules

LIVING INTERNATIONAL



L4461
L4661/127

LIGHT



N4461
N4661/127

LIGHT TECH



NT4461

TIMER SWITCH

Item	Description
L4461	Electronic timer switch with adjustment 1 to 12 minutes - distant control with pushbuttons - power supply 230Va.c., 50 and 60Hz - output contact 6A resistive/2A inductive 230Va.c.
N4461	
NT4461	
L4461/127	As above - power supply 127Va.c. 50
N4461/127	and 60Hz



L4466
L4666/127
L4470
L4470/127



N4466
N4666/127
N4470
N4470/127



NT4466
N4470

PROGRAMMING DEVICE

Item	Description
L4466	24 hour / 7 day electronic programming device - 4 daily cycles with independent or repeatable programming - power supply 230Va.c., 50 and 60Hz- output contact 8A resistive/2A inductive 230Va.c.
N4466	
NT4466	
L4466/127	As above - power supply 127Va.c., 50
N4466/127	and 60Hz.

ALARM CLOCK

Item	Description
L4470	Electronic alarm clock with daily programming - illuminated display - with working reserve - power supply 230Va.c., 50 and 60Hz
N4470	
NT4470	
L4470/127	As above - power supply 127Va.c., 50
N4470/127	and 60Hz

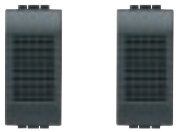
Audible signalling devices

LIVING INTERNATIONAL



L4351/12
L4351/230
L4351/127

L4355/12



L4356/12
L4356/230
L4356/127

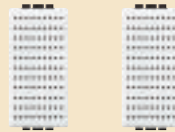
L4357/12

LIGHT



N4351/12
N4351/230
N4351/127

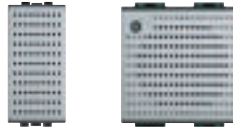
N4355/12



N4356/12
N4356/230
N4356/127

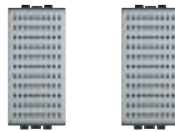
N4357/12

LIGHT TECH



NT4351/12
NT4351/230
NT4351/127

NT4355/12



NT4356/12
NT4356/230
NT4356/127

NT4357/12

BELLS

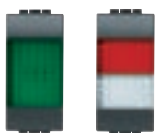
Item	Description
L4351/12	Bronze bell 12Va.c. - 5VA - 80dB
N4351/12	
NT4351/12	
L4351/230	Bronze bell 230Va.c. - 8VA - 80dB - 50 and 60 Hz
N4351/230	
NT4351/230	
L4351/127	Bronze bell 127Va.c. - 8VA - 80dB
N4351/127	
L4355/12	Electronic bell - 3 different sounds
N4355/12	- with front volume adjustment
NT4355/12	- 12Va.c./d.c. - 2 modules

BUZZERS

Item	Description
L4356/12	Buzzer 12Va.c. - 5VA - 74dB
N4356/12	
NT4356/12	
L4356/230	Buzzer 230Va.c. - 8VA - 75dB - 50 and 60 Hz
N4356/230	
NT4356/230	
L4356/127	Buzzer 127Va.c. - 8VA - 75dB
N4356/127	
L4357/12	Electronic buzzer - 12Va.c./0.9VA
N4357/12	- 12Vd.c./0.5W - 70dB
NT4357/12	

Luminous signalling devices

LIVING INTERNATIONAL



L4371A L4372AV
L4371T L4372RT
L4371R
L4371V



L4373H

LIGHT



N4371A N4372AV
N4371T N4372RT
N4371R
N4371V



N4373H

LIGHT TECH

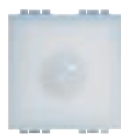


NT4371A NT4372AV
NT4371T NT4372RT
NT4371R
NT4371V

DEVICES COMMON TO THE THREE SERIES



(* See at right side



L4734/12
L4734/24
L4734/230

PILOT LIGHTS

Item	Description
L4371A	Lampholder with orange diffuser - for lamps Item 11250L - 11251L - 11252L
N4371A	
NT4371A	
L4371T	Lampholder with transparent diffuser - for lamps Item 11250L - 11251L - 11252L
N4371T	
NT4371T	
L4371R	Lampholder with red diffuser - for lamps Item 11250L - 11251L - 11252L
N4371R	
NT4371R	
L4371V	Lampholder with green diffuser - for lamps Item 11250L - 11251L - 11252L
N4371V	
NT4371V	
L4372AV	Double lampholder with 2 diffusers: 1 orange + 1 green - for lamps Item 11250L (11250LV into green lampholder) - 11251L - 11252L
N4372AV	
NT4372AV	
L4372RT	1 orange + 1 green - for lamps Item 11250L (11250LV into green lampholder) - 11251L - 11252L
N4372RT	
NT4372RT	

PILOTS LIGHT FOR HOTELS

Item	Description
L4373H	Double lampholder with red and green diffusers - "do not disturb / make up the room" indicator - for lamps item 11250L (11250LV into green lampholder) - 11251L - 11252L
N4373H	

(* OFF-DOOR LIGHT UNITS

Item	Description
L4385/12R	Power supply 12V - red, green, white
L4385/12V	
L4385/12B	
L4385/24R	Power supply 24V - red, green, white
L4385/24V	
L4385/24B	
L4385/127R	Power supply 127V - red, green, white
L4385/127V	
L4385/127B	
L4385/230R	Power supply 230V - red, green, white
L4385/230V	
L4385/230B	

NOTE: for all models we recommend a mounting height between 160 and 205

SPARE LAMPS

Spare lamps for off-door light units

Item	Description
L4745/12	Spare lamp E10 12V - 5W
L4745/24	Spare lamp E10 24V - 5W
L4745/230	Spare lamp E10 230V - 5W

SIGNALLING LAMP

Spare lamps for off-door light units

Item	Description
L4374/12	Signalling lamp with white light led - 12Va.c.
L4374/24	Signalling lamp with white light led - 24Va.c.
L4374/230	Signalling lamp with white light led - 230Va.c.

Indicators and emergency lamps

LIVING INTERNATIONAL



L4383



L4380

LIGHT

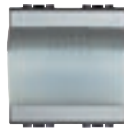


N4383



N4380

LIGHT TECH



NT4383



NT4380

DEVICES COMMON TO THE THREE SERIES



L4384/1
L4384/3



L4386/1 - L4386/1L - L4386/1/127
L4386/3 - L4386/3L - L4386/3/127



L4382/12
L4382/24
L4382/230



L4784/1
L4784/3



L4786/1
L4786/3



L4380/B

STEP MARKER LIGHT

Item	Description
L4383	Step marker light with swinging
N4383	light beam for lamps Item L4743/12,
NT4383	L4743/24, L4743/230 - 2 modules
L4382/12	Step marker light with white light led - 12Va.c.
L4382/24	Step marker light with white light led - 24Va.c.
L4382/230	Step marker light with white light led - 230Va.c.

PORTABLE EMERGENCY LIGHT UNIT

Item	Description
L4380	Plug-in miniature emergency light unit
N4380	- automatic functioning upon power failure - with recharging base
NT4380	- interchangeable Ni-Cd batteries - power supply 110/127/220/230Va.c., 60Hz - 2 modules - 50 and 60 Hz
L4380/B	Spare battery for Item L/N/NT4380

EMERGENCY LIGHT

Item	Description
L4384/1	Emergency light that illuminates automatically upon power failure - LED indicating mains status - local deactivating pushbutton - possible distant exclusion through switch - replaceable rechargeable Ni-Cd battery - 1 hour duration - power supply 230Va.c., 60Hz - 1W lamp - 4 modules - 50 and 60 Hz
L4384/3	As above - 3 hour duration
L4386/1	As above - 1 hour duration - 1.3W
L4386/1/127	lamp - 6 modules, 50 L4386/1/127 and 60Hz for model 127V
L4386/3	As above - 3 hour duration, 50 and
L4386/3/127	60Hz for model 127V
L4386/1L	As above - with permanent illumination - for rooms that need light for 24h a day - 1 hour duration
L4386/3L	As above - 3 hour duration
L4784/1	Spare battery for Item L4384/1
L4784/3	Spare battery for Item L4384/3
L4786/1	Spare battery for Item L4386/1 and L4386/1L
L4786/3	Spare battery for Item L4386/3 and L4386/3L

Electrical safety devices

LIVING INTERNATIONAL



L4321 L4301/6
L4301/10
L4301/16



L4305/6 L4311/10
L4305/10 L4311/16
L4305/16



L4536

LIGHT



N4321 N4301/6
N4301/10
N4301/16



N4305/6 N4311/10
N4305/10 N4311/16
N4305/16



N4536

LIGHT TECH



NT4321 NT4301/6
NT4301/10
NT4301/16



NT4305/6 NT4311/10
NT4305/10 NT4311/16
NT4305/16



NT4536

FUSE CARRIER

Item	Description
L4321	Fuse carrier for fuses 5x20 and 6.3x32
N4321	- max. 10A 250Va.c.
NT4321	

CIRCUIT BREAKERS

Automatic thermal magnetic circuit breakers

Item	Description
L4301/6	2 pole automatic thermal magnetic with
N4301/6	1 protected pole indicator of open/
NT4301/6	closed contacts - breaking capacity 1500A 127/230Va.c.
L4301/10	Circuit breaker as above - 10A - breaking
N4301/10	capacity 3000A 127/230Va.c.
NT4301/10	
L4301/16	Circuit breaker as above - 16A - breaking
N4301/16	capacity 3000A 127/230Va.c.
NT4301/16	

"SALVAVITA"

Residual current thermal magnetic automatic circuit breakers

Item	Description
L4305/6	"Salvavita" double pole RCBO with
N4305/6	1 protected pole I Δ n 10mA - 6A
NT4305/6	127/230Va.c. - indicator of open/
	closed contacts - test pushbutton
	- breaking capacity 1500A 127/230Va.c.
	- 2 modules
L4305/10	"Salvavita" as above - 10A - breaking
N4305/10	capacity 3000A 127/230Va.c.
NT4305/10	
L4305/16	"Salvavita" as above - 16A - breaking
N4305/16	capacity 3000A 127/230Va.c.
NT4305/16	

INTERLOCKED SOCKETS

Sockets 2P+E with tulip contact - degree of protection 2.1 - interlocked with two-pole automatic thermal magnetic circuit breakers with 1 protected pole - 2 modules

Item	In	Vn	Breaking capacity
L4311/10	10A	230Va.c.	3000A - 230Va.c.
N4311/10			
NT4311/10			
L4311/16	16A	230Va.c.	3000A - 230Va.c.
N4311/16			
NT4311/16			

CURRENT DISCHARGER

Item	Description
L4536	1P Overvoltage discharger to be
N4536	combined with the users mains socket
NT4536	- rated discharge voltage In=1kA
	- max. current I $_{max}$ =2kA - max.
	protection voltage U $_p$ =1kV - rated
	voltage U $_n$ =110-230Va.c. - max.
	permanent voltage U $_c$ =250Va.c.

Devices for sound system

LIVING INTERNATIONAL



L4481



L4485

L4499



4958

LIGHT



N4481



N4485

N4499



N4958

LIGHT TECH



NT4481



NT4485

NT4499



NT4958

DEVICES COMMON TO THE THREE SERIES



E45/24DC
E45/127/24DC



L4753

DEVICES FOR BASIC INSTALLATIONS

Item	Description
L4481	Input pre-amplifier with jack 3.5mm - power supply 24Vd.c. - input sensitivity adjustable between 100mV and 1V - control for switching on the sound system and the music source - 2 modules
N4481	
NT4481	
L4485	Local amplifier with personal volume adjustment - music output power 2W on 22Ω - power supply 24Vd.c.
N4485	
NT4485	
L4499	Monostable auxiliary relay with 1 NO contact, 6A resistive/2A inductive 230Va.c. - coil 24Vd.c. to be coupled with pre-amplifier Item L/N/NT4481 for remote control of the external sound source
N4499	
NT4499	
4958	Flush-mounting loudspeaker for box Item 506E formed by audible box with loudspeaker and front cover - rated power 6W - impedance 22Ω
N4958	
NT4958	
E45/24DC	Switching-type power supply 230Va.c. 1A - self-protected against overload and short circuit - housing for DIN rail - 6 modules
E45/127/24DC	
L4753	As above - input 127Va.c. Connection cable between sound source and pre-amplifier Item L/N/NT4481 with stereo jack connectors Ø 6.5mm and 3.5mm - cable length 1.5m

LIVING INTERNATIONAL



L4492



L4488

L4489



L4486

LIGHT



N4492



N4488

N4489



N4486

LIGHT TECH



NT4492



NT4488

NT4489



NT4486

DEVICES FOR SPECIAL INSTALLATIONS

Item	Description
L4492	Tuner with radio alarm clock for sound diffusion systems - 5 pre-settable FM channels - volume adjustment - can be used in combination with or replacement of the input pre-amplifier - 3 modules
N4492	
NT4492	
L4488	Electronic module with built-in microphone for paging system - manual switching on for sound diffusion system - power supply 24Vd.c. - 2 modules
N4488	
NT4488	
L4489	Electronic module with built-in microphone for audible surveillance with automatic switching on for sound diffusion system - power supply 24Vd.c. - 2 modules
N4489	
NT4489	
L4486	Local amplifier without controls (ON/OFF and volume adjustment) - output music power 1W on 22Ω - power supply 24Vd.c. - to be coupled with radio tuner Item
N4486	
NT4486	
E45/24/4	Device for the extension of the sound diffusion system to up to 48 loud-speakers - expander for up to 4 power supplies Item E45/24DC - housing for DIN rail - 3 modules

DEVICES COMMON TO THE THREE SERIES



E45/24/4

Burglar alarm system

LIVING INTERNATIONAL



L4600/4



L4600/1

L4603/4



L4603/8

L4604

LIGHT



N4600/4



N4600/1

N4603/4



N4603/8

N4604

LIGHT TECH



NT4600/4



NT4600/1

NT4603/4



NT4603/8

NT4604

DEVICES COMMON TO THE THREE SERIES



3500



4050

CONTROL UNIT WITH INTEGR. TEL. DIAL. DEV.

Item	Description
3500	manually enables and disables the system with a transponder and an IR remote control; bidirectional communication amongst the user, the burglar alarm system and the automation system

4-ZONE CONTROL UNIT

Item	Description
L4600/4	Miniature control unit - it allows the connection/disconnection of the system, the control of 4 zones, the programming of up to 30 remote controls, the carrying out of system tests and the alarms management with relevant signalling and memory
N4600/4	
NT4600/4	

SINGLE ZONE CONTROL UNIT

Item	Description
L4600/1	Miniature control unit - it allows the connection/disconnection of the system, the control of 1 zone, the programming of up to 30 remote controls, the carrying out of system tests and the alarms management with relevant signalling and memory
N4600/1	
NT4600/1	

ZONE SUBDIVIDER 1 TO 4

Item	Description
L4603/4	Receiver for connecting/ disconnecting the system by means of remote control - pushbuttons for controlling 4 zones - zones and system status signalling through LED - it can be coupled with the single zone control unit in order to extend the system from 1 to 4 zones
N4603/4	
NT4603/4	

ZONE EXPANDER 5 TO 8

Item	Description
L4603/8	Module for expanding the zones that can be subdivided - control pushbuttons of zones 5 to 8 - zones status signalling through LED - it can be coupled with 4 zone or single zone control unit + zone expander 1 to 4 - for expanding the system up to 8 zones
N4603/8	
NT4603/8	

ELECTRONIC CONNECTING KEY

Item	Description
L4604	Receiver for the system connection/disconnection through remote control - zones status signalling through LED - possibility to set the activation of fixed zones - auxiliary channel available for the activation of access controls (door locks)
N4604	
NT4604	

REMOTE CONTROL

Item	Description
4050	IR portable remote control for connecting/disconnecting the system

LIVING INTERNATIONAL

L4614

L4615



L4620

L4610 - L4613



L4611

L4612
L4612/12**LIGHT**

N4614

N4615



N4620

N4610 - N4613



N4611

N4612
N4612/12**LIGHT TECH**

NT4614

NT4615



NT4620

NT4610 - NT4613



NT4611

NT4612
NT4612/12**RELAY ACTUATOR**

Item	Description
L4614	Relay activating module with multiple configuration - C-NO-NC contacts, 24Vd.c. 0.4A cosφ 0.4
N4614	
NT4614	

AUXILIARY CHANNEL INTERFACE

Item	Description
L4615	Interface module for NO or NC auxiliary contacts - optoinsulated input 5-12Va.c./d.c.
N4615	
NT4615	

RADIO EXPANDER

Item	Description
L4620	Radio tuner module - to be used for remote assistance to people in difficulties - to be coupled with remote control Item L4621 - it can be used with radio detectors
N4620	
NT4620	

PASSIVE IR DETECTORS

Item	Description
L4610	Volumetric passive IR movement detector - alarm signalling LED with memory - range 8 meters, angle of detection 105°, 14 beams on 3 levels - pre-alarm auxiliary channel
N4610	
NT4610	
L4611	Movement detector as above - angle of detection can be reduced from 105° down to 0° - swinging lens on 2 axes
N4611	
NT4611	

CONTACT INTERFACE

Item	Description
L4612	NC contact interface module - possibility of connecting a balanced/non-balanced contact protection line
N4612	
NT4612	
L4612/12	Interface module for shutters protecting cord detector - it can also be connected with NC/NO and glass breaking detectors Item 3516
N4612/12	
NT4612/12	

DOUBLE-TECHNOLOGY DETECTORS

Item	Description
L4613	Double-technology volumetric presence sensor made up of two detectors: an infrared detector to trace warm bodies (IR) and a microwave detector to trace movement (MW). The alarm is activated only when both tracing technologies are activated.
N4613	
NT4613	

Burglar alarm system

LIVING INTERNATIONAL



L4605



4070

LIGHT



N4605

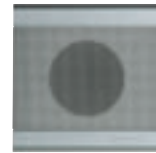


N4070

LIGHT TECH



NT4605



NT4070

KEYLOCK DISCONNECTOR AND SIRENS

Item	Description
L4605	Module for disarming and blocking the system through mechanical key - LED signalling of system status - fitted with hiding cover - safety key with 10,000 combinations
N4605	
NT4605	
4070	Internal siren for installation on flush-mounting box Item 506E - to be equipped with 6V battery 0.5Ah Item 3507/6 - sound intensity 90dB(A) at 3m distance - protected against rip-off and tampering
N4070	
NT4070	
4072L	External siren with built-in battery for supplying the whole system - to be equipped with 12V battery 12Ah Item 3505/12
4072A	External siren - to be equipped with 12V battery 7Ah - to be combined with power supply Item E47ADC

TELEPHONE DIALLING DEVICE

Item	Description
4075N	Dialling device to be connected with the telephone line, that can automatically dial up to 16 telephone numbers + a "jolly" number, sending six different alarm messages

DEVICES COMMON TO THE THREE SERIES



4072L
4072A



4075N



E46ADCN
E47ADC
E46ADCN/127



3530 - 3530S



3540

POWER SUPPLIES

Item	Description
E46ADCN	Power supply for Burglar Alarm System to be combined with external siren Item 4072L - input 230Va.c., 60Hz - output 27Vd.c. SELV - max. 4072L consumption 450mA
E46ADCN/127	As above - input 127Va.c.
E47ADC	Power supply as above to be combined with optional external siren Item 4072A

TRANSPONDER READER

Item	Description
L4607	Transponder reader for switching the system ON and OFF by means of transponder (badge) Item No. 3530 - Auxiliary channel available for activations
N4607	
NT4607	

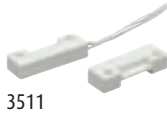
TRANSPONDER

Item	Description
3530	Portable transponder (badge) for use with Item No. L/N/NT4607 - It carries out the same functions as remote control Item No. 4050 - No batteries required
3530S	As above - thin
3540	As above - as key ring

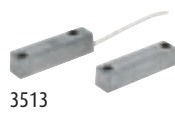
DEVICES COMMON TO THE THREE SERIES



3510



3511



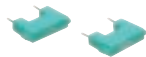
3513



3516



3518
3519



(* for items see
at right side



3515



L4630



L4669S



N4640



L4621

MAGNETIC CONTACTS

Magnetic contacts and glass breaking detector

Item	Description
3510	Electromagnetic NC contacts and protection line - for flush-mounting
3511	Electromagnetic NC contacts and protection line - for surface-mounting
3513	Electromagnetic NC contacts and protection line - in metallic housing for surface-mounting
3516	Glass breaking sensor - mounting by means of bi-adhesive tape (supplied)

ACTIVE INFRARED BARRIERS

Item	Description
3518	IR barriers for windows - 1 m
3519	IR barriers for doors - 2 m

VARIOUS ACCESSORIES

Item	Description
3515	Spare plug-in terminals
L4630	Tampering device for protection of IDS devices
L4669S	SCS isolated twisted pair consisting of 2 flexible wires with sheath twisted and not screened for IDS - isolation 300/500V - conforms to CEI 46-5 and CEI 20-20 - 100 m. reel

(* CONFIGURATOR SET

(* Configurator set - package of 10 pieces

Item	Description
3501/1	Configurator 1
3501/2	Configurator 2
3501/3	Configurator 3
3501/4	Configurator 4
3501/5	Configurator 5
3501/6	Configurator 6
3501/7	Configurator 7
3501/8	Configurator 8
3501/9	Configurator 9

IR MINI DETECTORS

Item	Description
N4640	Passive IR movement detector - detection range 8 meters, opening 105°, 14 beams on 3 levels - wall, sloping and angle-mounting

RADIO REMOTE CONTROL

Radio remote control for remote assistance

Item	Description
L4621	Radio remote control for sending remote assistance alarms - it can be coded automatically through radiotuner Item L4620, N4620 and L4610 NT4620 - power supply through 2 Lithium batteries (supplied) - duration: two years

Burglar alarm system

DEVICES COMMON TO THE THREE SERIES



502LPA



502NPA



502PA



F115/8A
F115/8B



3505/12



3507/6

WALL-MOUNTING BOXES

Wall-mounting boxes for modular devices

Item	Description
502LPA 502NPA	Low-profile surface-mounting box - fitted with tampering device - 2 modules - complete with supporting frame and white faceplate for Light version (LB - LIGHT white colour)
502PA	Angular surface-mounting box - with tampering device - 2 modules - complete with supporting frame and white faceplate for Light version (LB - LIGHT white colour)

Wall-mounting boxes for power supply and batteries

Item	Description
F115/8A	Wall-mounting DIN housing for power supply Item E47ADC
F115/8B	Housing for 12V battery 7Ah for supplying the IDS through power supply Item E47ADC - tampering contact against opening attempts

BATTERIES

Item	Description
3505/12	12V battery 12Ah for external siren Item 4072L
3507/6	6V battery 0.5Ah for internal siren Item 4070, N4070, NT4070, telephone dialling device item 4075N and control unit with telephone dialling device Item 3500

Gas detectors

LIVING INTERNATIONAL



L4511/12 L4512/12



L4520 L4541

LIGHT



N4511/12 N4512/12

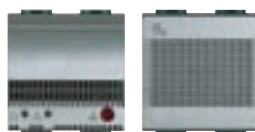


N4520 N4541

LIGHT TECH



NT4511/12 NT4512/12



NT4520 NT4541

DEVICES COMMON TO THE THREE SERIES



N719



F91/12E



L4525/12N0

GAS DETECTORS

Item	Description
L4511/12	Methane gas detector with optical and audible alarm (85dB) - internal self-diagnosis - prearranged for the control of signal repeaters - power supply 12Va.c./d.c. - 2 modules
N4511/12	
NT4511/12	
L4512/12	LPG detector with optical and audible alarm (85dB) - internal self-diagnosis - prearranged for the control of signal repeaters - power supply 12Va.c./d.c. - 2 modules
N4512/12	
NT4512/12	

SIGNAL REPEATER

Item	Description
L4520	Signal repeater for gas detectors - optical/audible alarm - relay output with 1 switching contact 6A resistive 2A inductive - 2 modules
N4520	
NT4520	

TRANSFORMER

Item	Description
L4541	Safety transformer - input 230Va.c. - 50/60Hz - output 12Va.c. - 4VA - 2 modules
N4541	
NT4541	

WALL-MOUNTING DETECTOR

Wall-mounting methane gas detector

Item	Description
N719	Methane gas detector with optical and audible alarm (85dB) - internal self-diagnosis - internal relay 6A cosφ 1 - solenoid valve control with manual reset 2 to 200 VA (12 to 230V a.c.) - power supply through sheathed or single pole cables in trunking at sight or flush pipes

DIN TRANSFORMER

Item	Description
F91/12E	Safety transformer - input 230Va.c. - 50/60Hz - output 12Va.c. - 6VA - housing for DIN rail - 3 modules

SOLENOID VALVE

Item	Description
L4525/12N0	NO gas solenoid valve - manual reset - power supply 12V 50Hz - power 3VA - consumption in non-working condition: 0 - max. pressure 500 mbar - IP65 protection degree - working temperature -15+60°C - 3/4 " threaded caps and 1/2 " reductions supplied

Hearing request

LIVING INTERNATIONAL



L4550



504LIV



150432

LIGHT



N4550



150433

LIGHT TECH



NT4550



150434

DEVICES COMMON TO THE THREE SERIES



4930/05



4930/1



4930/3



392123

MODULES

Item	Description
L4550	Electronic module for hearing request - management up to 9 set out and changeable messages - management of messages in 4 languages: Italian, Spanish, English and French
N4550	
NT4550	

POWER SUPPLIES

Item	Description
4930/05	Power supply 230V a.c./9V d.c. SELV 0.6A - for a system that includes a master and a reader - execution for DIN 35 rail - 3 modules
4930/1	Power supply 230V a.c./9V d.c. SELV 1.3A - for a system that has maximum 5 devices among masters and readers - execution for DIN 35 rail - 6 modules
4930/3	Power supply 230V a.c./9V d.c. SELV 1.3A - for a system that has maximum 12 devices among masters and readers - execution for DIN 35 rail - 10 modules

ACCESSORIES

Item	Description
504LIV	Table device-holders - 4 LIVING INTERNATIONAL modules - with supporting frame
392123	Infrared remote control for message programming - optional
150432	Device-holder for 4 LIVING INTERNATIONAL modules
150433	Device-holder for 4 LIGHT modules
150434	Device-holder for 4 LIGHT TECH modules

NOTE: Ask Bticino sales officers for the availability of device-holders 150432 - 150433 - 150434

Devices for video door entry systems

LIVING INTERNATIONAL



334513



336993



391613

LIGHT



334512



336992



391612

LIGHT TECH



334514



336994



391614

DEVICES

Devices for door entry/video door entry systems

Item	Description
334513	Intercom for audio and video systems, analog and digital - with door lock and staircase light facility - 4 modules
334512	
334514	
336993	Electronic bell for call signal repetition from a audio or video entrance panel - with front adjustment of call volume - 2 modules
336992	
336994	
391613	Flush-mounting camera with swinging lens - automatic adjustment of focus and brightness - with built-in microphone - 2 modules
391612	
391614	

NOTE: for further information see "Door entry systems" catalogue.

Blank plates and accessories

LIVING INTERNATIONAL



L4950 L4953



L4951 L4750

LIGHT



N4950 N4953



N4951 N4750

LIGHT TECH



NT4950 NT4953



NT4951

DEVICES COMMON TO THE THREE SERIES



L4782



L4783



L4784



L4787



503CG



503EV



503EC



503DE



503ED

BLANK PLATES

Item	Description
L4950	Blank plate
N4950	
NT4950	
L4953	Blank plate with output Ø 9 mm
N4953	
NT4953	
L4951	Blank plate with knockout
N4951	
NT4951	

SCREW COVERING SEALS

Item	Description
L4750	Screw covering seals for device-holder supports Item L/N4719, L/N4703, L4704 and N4704N
N4750	

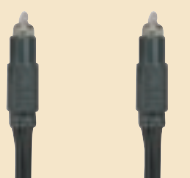
PROTECTION SHEATHS

Item	Description
L4782	Protection sheath for 2 module support - Living International Item L4702G - can be used during finishing plastering works
L4783	Protection sheath for 3 module support - can be used during finishing plastering works
L4784	Protection sheath for 4 module support - can be used during finishing plastering works
L4787	Protection sheath for 7 module support - can be used during finishing plastering works

ACCESSORIES FOR BOX ITEM 503E

Item	Description
503CG	Protecting cover for flush-mounting box Item 503E - can be used during finishing plastering works
503EV	Internal divider - material: resin - for boxes Item 503E new design
503EC	Finishing cover for flush-mounting box Item 503E - for closing when used as junction box - can be painted
503DE	Internal divider - material: resin - for boxes Item 504E
503ED	Horizontal and vertical coupler for box Item 503E

Lamps and plugs



11250L
11250L/127
11250LV
11250LV/127

11251L
11252L



L4741/230
L4741/127
L4741/230V
L4741/127V

L4745/12
L4745/24
L4745/127
L4745/230

LAMPS

Item	Description
11250L	locating discharge lamp 230V - plug with studs - transparent
11250L/127	locating discharge lamp 127V - plug with studs - transparent
11250LV	locating discharge lamp 230V - plug with studs - green
11250LV/127	locating discharge lamp 127V - plug with studs - green
11251L	signalling incandescent lamp 12V
11252L	signalling incandescent lamp 24V
L4741/230*	prewired locating discharge lamp 230V 1.5mA - transparent (for items L/N/NT4001 and L4003/0, L/N/NT4003 and L4003/0, L/N/NT4005 and L4005/0)
L4741/127	prewired locating discharge lamp 127V 1.5mA - transparent (for items L/N/NT4001 and L4003/0, L/N/NT4003 and L4003/0, L/N/NT4005 and L4005/0)
L4741/230V	prewired locating discharge lamp 230V 1.5mA - green (for items L/N/NT4001 and L4003/0, L/N/NT4003 and L4003/0, L/N/NT4005 and L4005/0)
L4741/127V	prewired locating discharge lamp 127V 1.5mA - green (for items L/N/NT4001 and L4003/0, L/N/NT4003 and L4003/0, L/N/NT4005 and L4005/0)
L4745/12	incandescent lamp E10 - 12V 5W - for flaps
L4745/24	incandescent lamp E10 - 24V 5W - for flaps
L4745/127	incandescent lamp E10 - 127V 5W - for flaps
L4745/230	incandescent lamp E10 - 230V 5W - for flaps

* not suitable for backlighting pushbuttons that control relays or electronic devices

USING LAMPS FOR BACKLIGHTING

For devices - items	L4741/230 - /127** L4741/230V - /127	11251L - 11252L	11250L - 11250LV 11250L/127 - 11250LV/127	L4745/230 - /127 - /24 - /12
L/N/NT4001, L/N/NT4003, L/N/NT4005, L4001/0, L4003/0, L4005/0	■	■	■	
L/N/NT4002, L/N/NT4004		■	■	
L/N/NT4034, L/N/NT4044, L/N/NT4038R, L/N/NT4038V*		■	■	
L/N/NT4040		■	■	
L/N/NT4371A, L/N/NT4371T, L/N/NT4371R, L/N/NT4371V*		■	■	
L/N/NT4372AV*, L/N/NT4371RT, L/N4373H*		■	■	
L4385/12..., L4385/24..., L4385/230...				■

* for pilot lamps with a green diffuser with power supply voltage 230V, use lamp 11250LV

** not suitable for backlighting pushbuttons that control relays or electronic devices



2200NN

2200NA



2120N

2124N

BTICINO SYSTEM IRREVERSIBLE PLUGS

10A irreversible wander plugs for BTicino L/N/NT4115 safety sockets with totally isolated holes

loose products

Item	Description
2200NA	Plug 2P+T 10A ivory
2200NN	Plug 2P+T 10A black

SPECIAL PLUGS

loose products

Item	Description
2120N	2P special plug for tiny plugs L/N/NT4291 - pins Ø 3mm - center distance 13mm - for auxiliary circuits SELV up to 25V 6A
2124N	Plug-in key for jack connectors L/N/NT4391 - pin Ø 5mm

Installation in protected housing IP40 - IP55 IDROBOX



24401

24402

24403



24404

24404/2



24406

HORIZONTAL SURFACE-MOUNTING HOUSINGS

Horizontal surface-mounting housings complete with base and cover - IP40.
For devices LIVING, LIGHT and LIGHT TECH

Item	No. holes Ø 23 mm		No. of modules that can be installed	Partitions Item No. 25701V
	With cable entry gland	Breakable through		
24401	1	2	1	
24402	1	2	2	
24403	1	4	3	
24404		9	4	
24404/2		9	2+2	1
24406		11	3+3	1



24501

24502

24503



24504

HORIZONTAL SURFACE-MOUNTING HOUSINGS

Horizontal surface-mounting housings complete with base and cover - IP55.
For devices LIVING, LIGHT and LIGHT TECH

Item	No. holes Ø 23 mm		No. of modules that can be installed
	With cable entry gland	Breakable through	
24501	1	2	1
24502	1	2	2
24503	1	4	3
24504		9	4



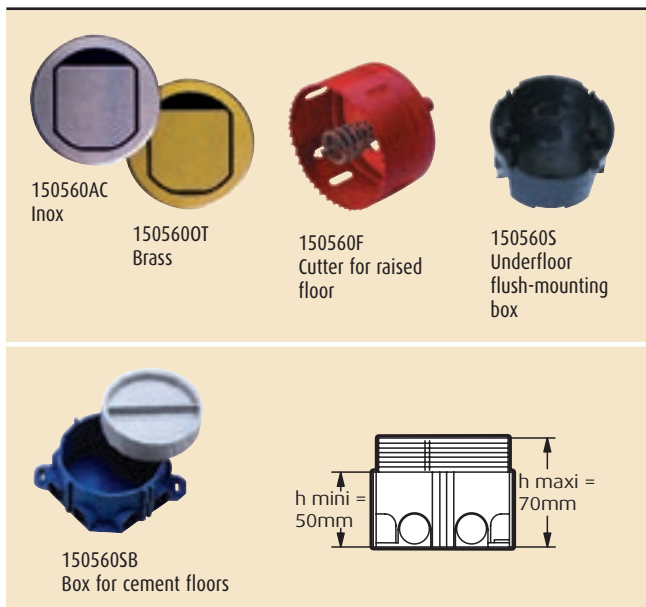
ACCESSORIES FOR HOUSINGS IP40 - IP55

Item	Description
25700	Flexible cable entry gland Ø 5 to 14-16-20 mm - IP55
25700F/16	Quick-coupling pipe gland IP55 for pipes Ø 16 mm
25700F/20	Quick-coupling pipe gland IP55 for pipes Ø 20 mm
25701	Horizontal partition
25701V	Vertical partition
25702	Internal terminal for earth connection

IP54 IR SWITCH

Item	Description
25550/180	Angle of detection 180° - Relay contact 8A 250Va.c.
25550/270	Angle of detection 270° - Relay contact 8A 250Va.c.

Wiring accessories Floor boxes



WIRING ACCESSORIES - FLOOR BOXES

These new floor boxes were planned for being equipped with 1 or 2 module devices of the wiring accessories series Living International, Light and Light Tech. Thanks to the cover with automatic shutting and hinge made of caoutchouc, they allow a very good protection degree (IP24-7). There are two finishes that can be stepped on: inox steel and brass, both of them particularly polished and which can carry a max. split up weight of 500kg. By means of two specific boxes, the installation can be made in cement floors (with a min. depth of 50mm) or in raised technical floors (with a min. depth of 60mm).

Dimensions:

- ext. diameter 100 mm
- protrusion from the floor max. 4.5 mm

Item	Description
150560AC	2 module column, inox
1505600T	2 module column, brass
150560SB	Box for cement
150560S	Underfloor flush-mounting box
150560F	Cutter diam. 86mm



TECHNICAL INFORMATION



SECTION INDEX

78	Luminous controls
79	Dimmer
82	Electronic control devices
84	Socket outlets
85	TV + SAT jacks
86	Control
90	Audible and luminous signalling devices
92	Emergency devices
93	Devices for sound system
95	Electrical safety devices
97	IP40 and IP55 enclosures
98	Electronic devices in protected version
99	Dimensional data

Luminous controls

PREWIRED LAMP AND LUMINOUS CONTROLS

LIVING	LIGHT	LIGHT TECH
L4741/230 e /127	L4741/230 e /127	L4741/230 e /127
L4741/230V e /127	L4741/230V e /127	L4741/230V e /127

PREWIRED LAMP

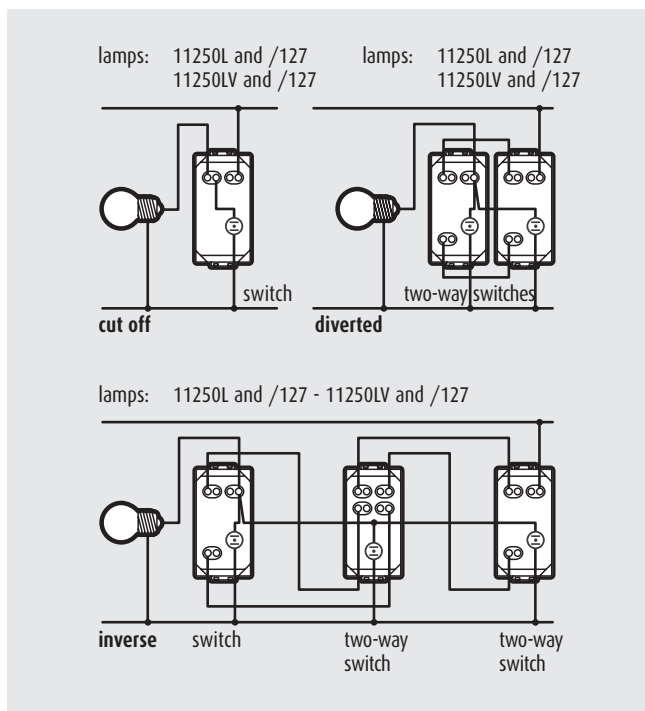
This new Item allows to quickly and easily light up switches or pushbuttons with locating lamps. In fact, for the mechanical coupling and the electrical connection, it is enough to fit the lamp into the special socket in the back of the control device. For other functions different from the locating one, or for 12V or 24V input, the control devices can be lighted with the lamps Item No. 11250L, 11250LV, 11251L, 11252L.

LUMINOUS CONTROLS

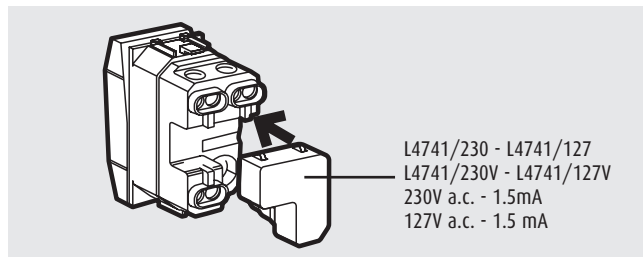
The following diagrams allow for the implementation of light points that can be identified with locating lamps or pilot lamps; they adapt to basic control devices (switches, two-way switches, intermediate switches) of all BTicino domestic lines (LIVING, LIGHT and LIGHT TECH).

PILOT LAMP

For indicating the operation status of users' equipment not visible from the control point.

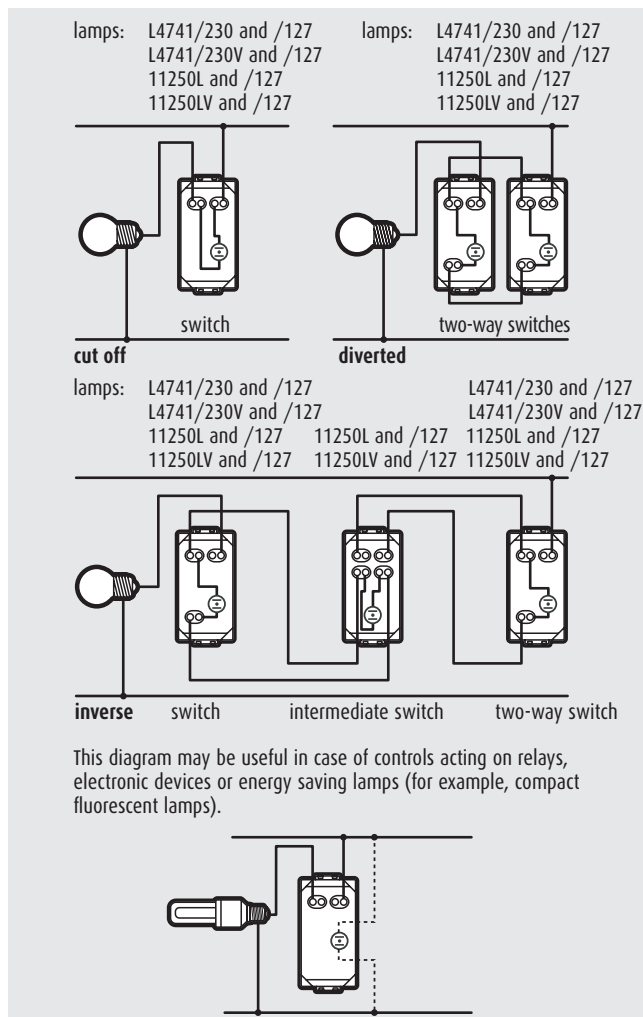


LAMP INSTALLATION



LOCALIZATION LAMP

For identifying control pushbuttons in the dark.



Dimmer

KNOB DIMMER

Device	LIVING	LIGHT	LIGHT TECH
A	L4402	N4402	NT4402
B	L4406	N4406	NT4406
C	L4581	N4581	NT4581
D	L4583	N4583	NT4583

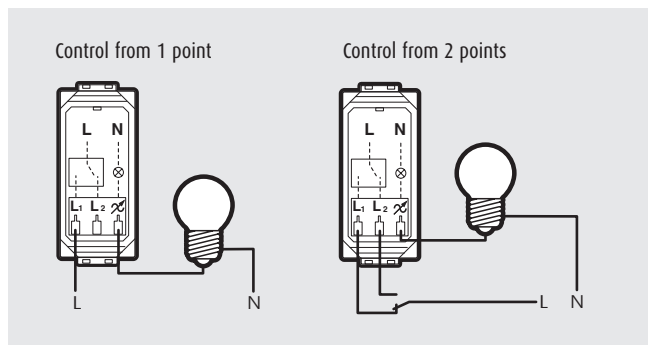
Knob dimmers allow for resistive load adjustment. They can be supplied with or without a built-in two-way switch.

Devices "B" and "C" must be protected with a fuse type T2,5H 250V, thereby making it possible to adjust the load from one point and switching on and off from different points through two-way switches or external switches. Instead, device "A" makes it possible to adjust the load and to switch it on and off through the built-in two-way switch; it can therefore be replaced with a normal switch or two-way switch without modifying the system. It has been designed with a new technology which does not require the use of the filter coil, thereby making it absolutely noiseless but, at the same time, in compliance with the standards on the emission of electromagnetic disturbances.

Technical features

- power supply: "A" and "B"=230V a.c. "A"=50Hz and 60Hz "B"=50Hz
"C" and "D"= 110-127-230V a.c. 50 and 60Hz
- type of load: resistive (incandescent lamps only)
- power: (see dimmer page on catalogue section)

Wiring diagram - device "A"



PUSHBUTTON DIMMER AND PUSH-PUSH

	LIVING	LIGHT	LIGHT TECH
A	L4413	N4413	NT4413
B	L4582	N4582	NT4582

These dimmers can control resistive loads and ferromagnetic transformers (power between 60VA and 500VA) from one or more points. They are designed with a new technology which ensures compliance with the standards on the emission of electromagnetic disturbances without the use of filter coils. This feature allows the devices to be totally noiseless. The quick pressure of the knob, or one of the pushbuttons connected externally, activates the load and sets it according to the level of the last adjustment that was made; a second quick pressure deactivates it. When switching on, the devices enable the load in order to gradually reach the set level of brightness to avoid dazzling phenomena (soft-start); switching off also occurs gradually (soft-stop).

An inbuilt fuse type T2,5H250V selfprotects dimmers against short circuits. Using dimmers powered by uninterrupted power supplies or by a generator set may cause malfunction.

Installation notes

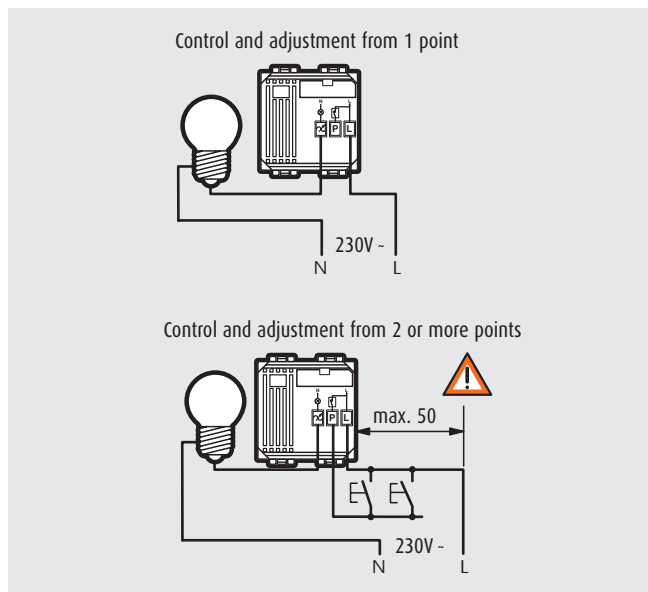
For proper operation of all dimmers, follow the instructions below during installation:

- do not use two or more dimmers together in the same box
- do not install in boxes where there are thermostats

Technical features

- power supply: "A"=230Va.c. 50Hz, "B"=110-127-230V a.c. 50 and 60 Hz
- type of load: resistive or ferromagnetic transformer
- power: (see dimmer page on catalogue section)

Wiring diagrams



Dimmer

SLAVE DIMMER

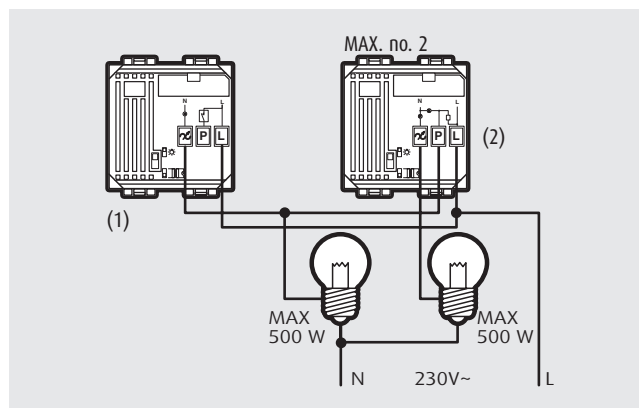
LIVING	LIGHT	LIGHT TECH
L4416	N4416	NT4416

This device can regulate loads only if it is controlled by another dimmer, to which must be properly combined.
 In this way it is possible to obtain an increase in the power controlled by the main dimmer, that has the "master" function.
 One or maximum two "slave" can be connected to the following dimmers: L/N/NT4412, L/N/NT4413.
 It is not possible to act directly on the slave dimmer.

Technical features

- power supply: 230Va.c. 50Hz
- type of load: resistive or ferromagnetic transformer
- power: 60 to 500 VA

Wiring diagram



(1) L/N/NT4403 - 4412 - 4413

(2) L/N/NT4416

DIMMER FOR ELECTRONIC TRANSFORMERS

	LIVING	LIGHT	LIGHT TECH
A	L4407	N4407	NT4407
B	L4407/127	N4407/127	

This dimmer can control electronic transformers for powering up low voltage quartz-iodine lamps (with power between 60VA e 250VA, 50 to 250VA for L/N4407/127). It is designed with a new technology which ensures compliance with the standards on the emission of electromagnetic disturbances without the use of filter coils. This feature allows the device to be totally noiseless. The quick pressure of the local pushbutton, or one of the pushbuttons that can be connected externally, activates the load and sets it according to the level of the last adjustment that was made; a second quick pressure deactivates it. An extended pressure of the pushbutton makes it possible to adjust the min-max / max-min load. When switching on, the device enables the load to gradually reach the set level of brightness in order to avoid dazzling phenomena (soft-start); switching off also occurs gradually (soft-stop).

An inbuilt fuse type T2,6H250V selfprotects dimmers against short circuits. Using a dimmer powered by uninterrupted power supplies or by a generator set may cause malfunction.

Installation notes

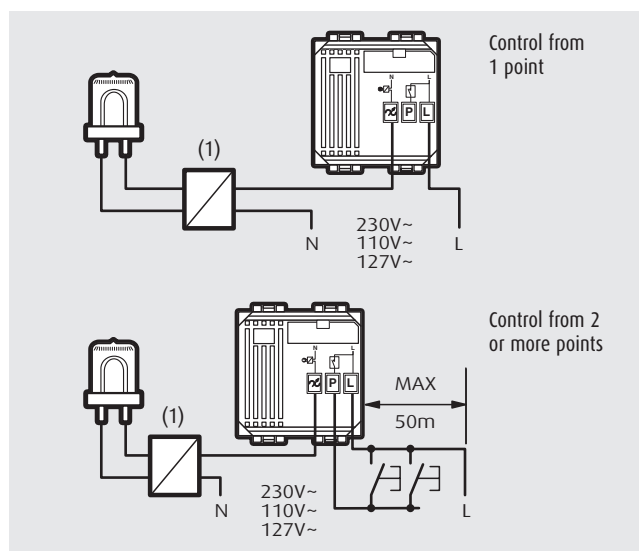
For proper operation of all dimmers, follow the instructions below during installation:

- do not use two or more dimmers together in the same box
- do not install in boxes where there are thermostats item L/N/NT4441 and item L/N/NT4442.

Technical features

- power supply: "A" 230Va.c. 50Hz - "B" 110-127V a.c. 50Hz
- type of load: for electronic transformers
- power: "A" 60 to 250 VA - "B" 50 to 250VA

Wiring diagram



(1) electronic transformers

ELECTRONIC TRANSFORMERS

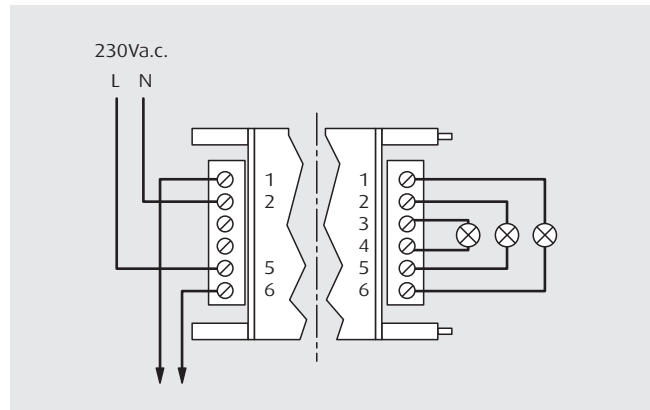
Device	LIVING	LIGHT	LIGHT TECH
A	L4405/60	L4405/60	L4405/60
B	L4405/105	L4405/105	L4405/105

Electronic transformers can power up low voltage quartz-iodine lamps with power between 20W and 60W (L4405/60) or between 35W and 105W (L4405/105) and can be adjusted from the dimmer (L/N/NT4407). They have a terminal set up for connecting up to three 20W lamps (.../60) or three 35W lamps (.../105) and can also be installed inside furniture.

Technical features

- power supply: 230Va.c. 50Hz
- output voltage: 12V
- type of load: resistive
- power of device "A": 10 to 60W
- power of device "B": 35 to 105W
- operating temperature: 0 to 50 °C
- max conductor size: 2.5 mm²

Wiring diagram



CODED KEYS

LIVING	LIGHT	LIGHT TECH
L4531	L4531	L4531
L4532	L4532	L4532

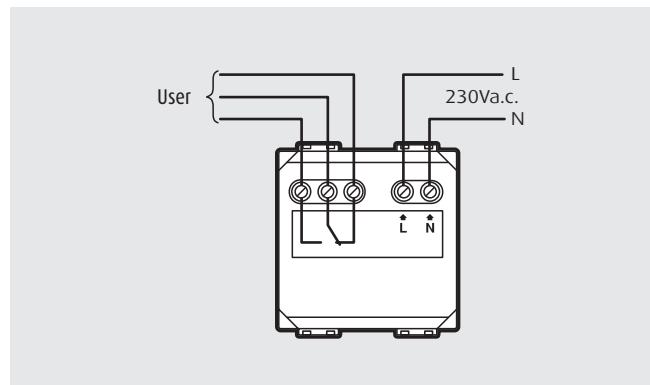
These keypad controls Item L4531 - L4532 allow the control of electric devices through a 4-digit secret code; they find application in public places, offices, hospitals, schools where activation of electric devices control is to be performed only by its staff.

The same devices can also be used to control electric locks, so to make a first-level control of the accesses.

Technical data

- power supply: 230V 50/60Hz
- controllable loads: 250Va.c. - 6A - $\cos\phi=1$; 35V d.c. 8A
- the device can control higher electrical power by means of an external relay.
- operating temperature: 0-40 °C
- max conductor size: 2.5 mm²
- memory time of codes in case of power supply failure: 10 years

Wiring diagram



Electronic control devices

IR REMOTE CONTROL SYSTEM

LIVING	LIGHT	LIGHT TECH
L4425 and L4425/127	N4425 and N4425/127	NT4425
L4426 and L4426/127	N4426 and N4426/127	NT4426
L4412	N4412	NT4412
4482/7	4482/7	4482/7
4482/16	4482/16	4482/16

The infrared remote control system lets you switch on and off or adjust electric loads or activate drapery, blinds, etc... from remote control points. All this is electrically carried out in a safe manner since there are no electrical connections between the control point (remote control) and the user (load). This feature makes it possible to install this system in places where high safety is required, places where there are disabled persons and wherever it is impossible to physically connect a control point and a controlled device.

The system includes:

- a 7-channel or 16-channel remote control
- 1-channel receivers
- 2-channel receivers
- dimmer receiver

Features of remote controls

Remote controls can be of two types: with 7 or 8 pushbuttons. The first version controls up to 7 receivers in the same room and it is suitable for domestic environments. The second version has 16 channels: the first 8 are directly controlled with the 8 pushbuttons (flipping the selector will changeover to the next 8 channels). The latter model is normally used in service industry applications. To make their use easier, it is possible to apply labels with specific symbols next to the pushbuttons. These symbols should be used to remember the functions of each channel. 1.5V batteries - type AA - are housed in the bottom part.

Features of receivers

Receivers are available in the following versions: version with dimmer or with 1 or 2 channels, relays and built-in local control pushbuttons for controlling single or double loads. By using the microswitches located under the removable front cover, it is possible to select the receiving channel and the cyclic or monostable relay operation mode (switch or pushbutton function).

Technical features L/N/NT 4425 and L/N 4425/127 1 CHANNEL RECEIVER

- power supply: 230Va.c. 50/60Hz (127V a.c. 50/60 Hz item L/N 4425/127)
- controllable loads:
 - 6A resistive loads or incandescent lamps
 - 2A $\cos\phi$ 0.5 fluorescent lamps and inductive loads
- relay: cyclic and monostable
- receiver: 1 channel

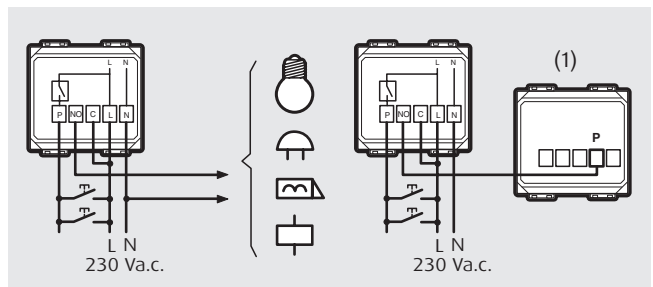
Technical features L/N/NT 4426 L/N 4426/127 2 CHANNEL RECEIVER

- power supply: 230Va.c. 50/60Hz (127V a.c. 50/60 Hz art. L/N 4426/127)
- controllable loads:
 - 4A resistive loads or incandescent lamps
 - 750W gear motors
- relays: no. 2 - interlocked
- receiver: 2 channels

Technical features L/N/NT 4412 DIMMER RECEIVER

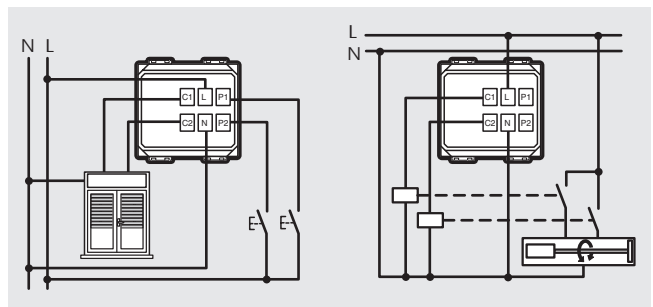
- power supply: 230Va.c.
- type of load: resistive and for ferromagnetic transformers
- power: 60 to 300VA

Wiring diagram L/N/NT 4425

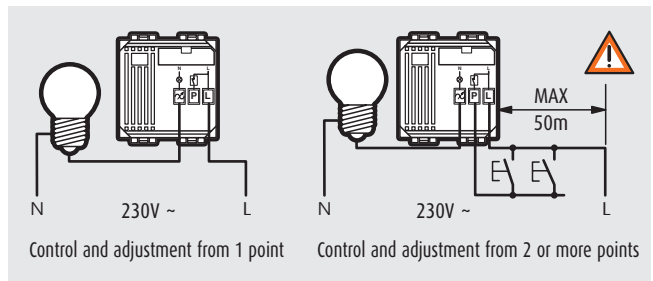


(1) L/N/NT4413 - 4432 - 4461

Wiring diagram L/N/NT 4426



Wiring diagram L/N/NT 4412



Control and adjustment from 1 point

Control and adjustment from 2 or more points

PASSIVE IR SWITCH

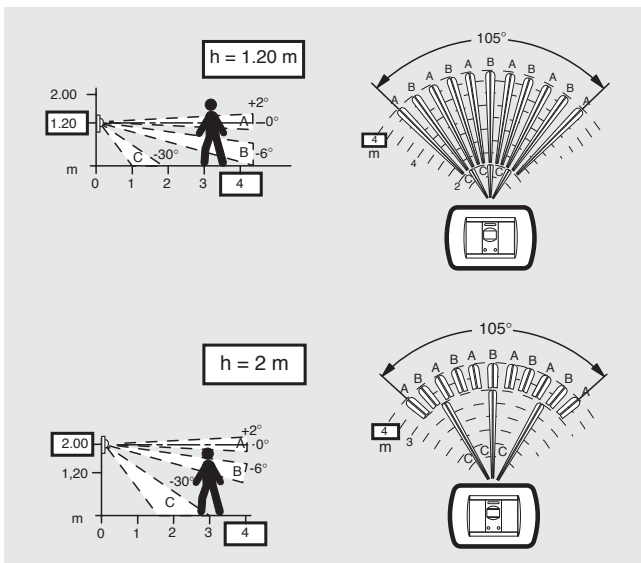
Device	LIVING	LIGHT	LIGHT TECH
A	L4431	N4431	NT4431
B	L4432	N4432	NT4432
C	L4432/127	N4432/127	—

The passive IR switch opens up new prospects in the field of automatic mechanisms, allowing to automatically switch on devices as passers-by approach (for example, light turns on without touching any switch or pushbutton). It is possible to adjust the device sensitivity threshold according to the room natural lighting and to adjust the end-of-operation delay after last movement has been detected, to optimise performance.

The detection range can be widened by installing several devices at different places, with outputs connected in parallel.

Volumetric coverage is achieved with 3 levels of rays A, B and C with plus-2, minus-6 and minus-30 degrees orientation relative to the installation axis, and reaches 4 meters.

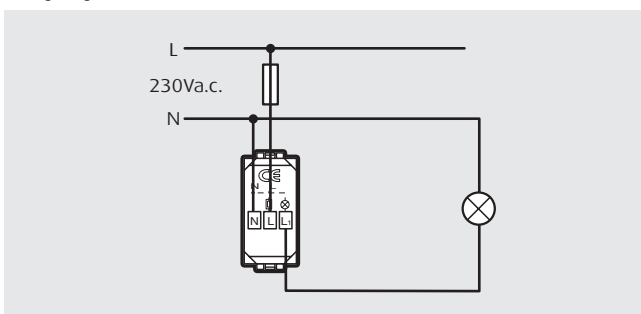
Covering fields



Technical features – device “A”

- power supply: 230Va.c. 50Hz
- controllable loads:
 - 2A resistive load, incandescent lamps and ferromagnetic transformer
 - 2A $\cos\varphi$ 0.5 inductive load
- adjustment of time for switching on: from 30 seconds to 10 minutes
- twilight adjustment: from 5 lux to dark.

Wiring diagram



Technical features – device “B”

Power supply: 230V a.c. 50/60Hz

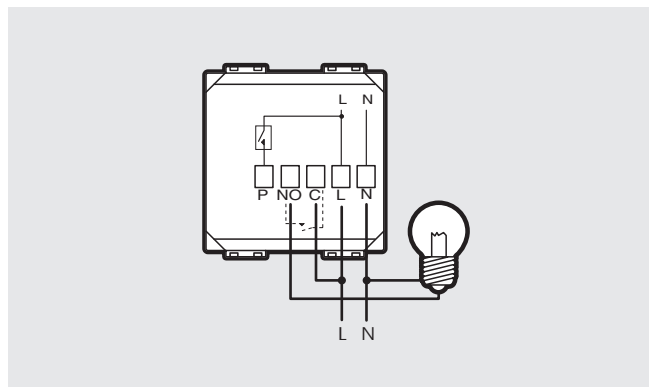
- controllable loads:
 - 2A inductive load and fluorescent lamp
 - 6A resistive load, incandescent lamps and ferromagnetic transformer
- adjustment of time for switching on: from 30 seconds to 10 minutes
- twilight adjustment: from 5 lux to dark
- controllable with external pushbuttons
- selector 0-A-1 (manual operation with external pushbuttons, automatic and external pushbuttons always ON).

Technical features – device “C”

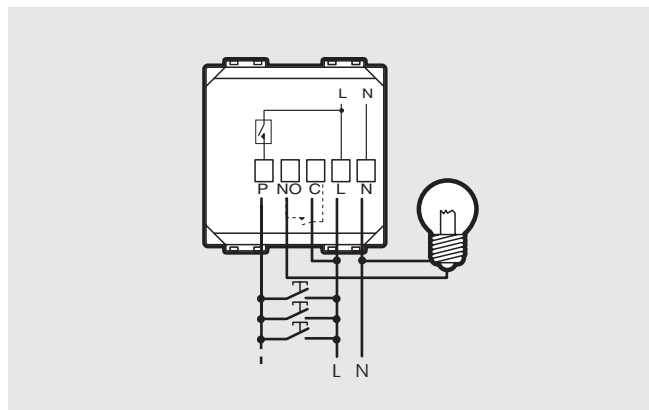
Power supply: 110-127V a.c. 50 and 60Hz

- controllable loads:
 - 2A inductive load and fluorescent lamp
 - 6A resistive load, incandescent lamps and ferromagnetic transformer
- adjustment of time for switching on: from 30 seconds to 10 minutes
- twilight adjustment: from 5 lux to dark
- controllable with external pushbuttons
- selector 0-A-1 (manual operation with external pushbuttons, automatic and external pushbuttons always ON).

Basic wiring diagram



Wiring diagram with pushbuttons (IR + timer)



Socket outlets

SAFETY SOCKETS

LIVING

All standard sockets

LIGHT

LIGHT TECH

The (totally separated) tulip safety sockets can be accessed only with a special plug that closes the contact when it is completely in. The contact is guaranteed by the pressure of special spiral springs. Plugs with a different capacity cannot be interchanged, thus it is possible to substantially separate several circuits.

More significant testing conditions

- testing voltage: gradual 2000V 50Hz per minute
- insulation resistance tested at 500V: > 5M Ω.
- breaking test: 100 plug connection/disconnection operations at 275V a.c. $\cos\phi$ 0.6 - 12.5A (for 10A plugs), 20A (for 16A plugs).
- extended operational test: 10.000 10000 plug connection/disconnection operations at 250V a.c. $\cos\phi$ 0.6 with rated current.

Rated features and classification (according to Standards CEI 23-16/VII-1971 and 23-5/I-1972) of plug-in sockets for domestic uses and the like.

Type of DEVICE	No. of poles	Coupling mode	Reference abbreviation	Rated current	Type of current	Rated voltage	Type of device	Terminal position	Maximum conductor size
separated tulip plug-in sockets	2P+E	irreversible	P13	10A	~ 50Hz	250V~	modular	back	4mm ²
separated tulip plug-in sockets	2P+E	irreversible	P19	16A	~ 50Hz	250V~	modular	back	4mm ²
shielded tulip plug-in sockets	2P+E	reversible	P11	10A	~ 50Hz	250V~	modular	back	2x4mm ²
shielded tulip plug-in sockets	2P+E	reversible	P17	16A	~ 50Hz	250V~	modular	back	2x4mm ²
shielded tulip 2-center sockets	2P+E	reversible	P11/17	10 and 16A	~ 50Hz	250V~	modular	back	2x4mm ²
plug-in sockets with earth side contacts	2P+E	reversible	—	10/16A	~ 50Hz	250V~ and d.c.	non-modular	back	2x4mm ²

SHAVER SOCKET

LIVING

LIGHT

LIGHT TECH

A	L4177	N4177	NT4177
B	L4177/127	N4177/127	NT4177/127

The transformer is connected to power line only when the plug is inserted by means of a pushbutton (1) to avoid useless loss, heating and humming, and is protected by a thermal effect device which automatically disconnects the primary when load exceeds 20VA.

Reconnection is automatic after the protective device has cooled down. The shaver socket is typically installed in hotels, pensions and similar, for customer's safety and to avoid illegal use of the bathroom's socket.

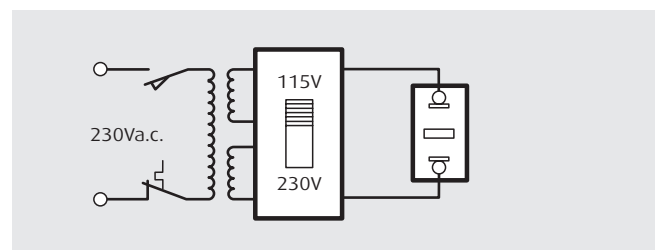
Technical features "A"

- 20VA transformer:
- primary 230V a.c. \pm 10% 50Hz
 - two 115V or 230V a.c. secondaries that can be selected with a commutator
 - max conductor size: 2.5 mm²

Technical features "B"



- 20VA transformer:
- primary 127V a.c. 50 and 60 Hz
 - two 127V or 230V a.c. secondaries that can be selected with a commutator
 - max conductor size: 2.5 mm²

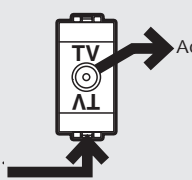
Wiring diagram





TV + SAT jacks


DIRECT SOCKETS (EXTENSIONS)

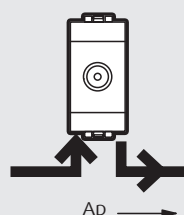
	Ad	Zo			B1	FM	VHF	UHF	SAT IF	
	dB	Ω	V/mA	KHz / V	MHz	MHz	MHz	MHz	MHz	MHz
L/N/NT4202D	≤ 1.5	75	≤ 500		40-68	87.5-108	120-470	470-862	950-2150	2150-2400
L/N/NT4202DC	≤ 1.5									



	Zo	Ad	OUT			B1	FM	VHF	UHF	SAT IF	
	Ω	dB		mA	KHz	MHz	MHz	MHz	MHz	MHz	MHz
L/N/NT4210D	75	dB	TV			≤ 1			1.7 - 0.5	0.5 - 3.5	
			RD					1.5 - 2.5			
			SAT	500							2 - 0.7

PASS-THROUGH JACKS

		Zo	B1	FM	VHF	UHF	SAT IF	
	dB	Ω	MHz	MHz	MHz	MHz	MHz	MHz
L/N/NT4202P	Ad	75			14 ± 1			
	Ap				≤ 2			
L/N/NT4202PT	Ad				≤ 11.5			



LEGEND:

Ap = Pass through attenuation
 Zo = Characteristic impedance
 Ad = Direct attenuation (or bridging)

TV COAXIAL JACKS FEMALE CONNECTOR

Features

Item No. L/N/NT4205D/2

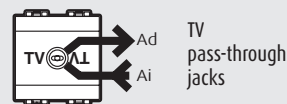
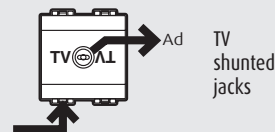
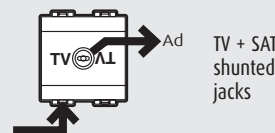
Attenuation		
Frequency (MHz)	Ad (dB)	Zo (Ω)
40 to 2050	< 1	75

Item No. L/N/NT4201D/2

Attenuation				
Frequency (MHz)	Ap (dB)	Ad (dB) ± 0.2	Ai (dB)	Zo (Ω)
40		0.3	75	
800		0.5	75	
2050		1.5	75	

Item No. L/N/NT4201DP/2

Attenuation				
Frequency (MHz)	Ap (dB) ± 0.2	Ad (dB) ± 1	Ai (dB)	Zo (Ω)
40	0.8	13	≥ 35	75
800	0.8	13	≥ 35	75
1750	1	14	≥ 30	75
2050	1.3	15	≥ 20	75



Ap = Pass-through attenuation Ai = Inverse attenuation
 Ad = Direct attenuation (or bridging) Zo = Characteristic impedance

Control

TIMER

	LIVING	LIGHT	LIGHT TECH
A	L4461	N4461	NT4461
B	L4461/127	N4461/127	NT4461

This timer, which is delayed when de-energized, allows you to have traditional circuits for stairway lights, air extractor controls, etc.

It can be controlled with pushbuttons or switches.

The delay time count when turned off starts when the pushbutton/switch contact is opened.

Common technical features

- power supply: "A" 230V a.c. $\pm 10\%$ 50/60Hz "B" 127V a.c. $\pm 10\%$ 50 and 60Hz
- remote control with pushbuttons or directly on the device with built-in pushbutton
- contact signal closed with pilot lamp (yellow LED)
- max conductor size 2x2.5mm²
- time delay setting: continuously from 1 to 12 minutes
- overall size: 2 modules
- controllable loads:
 - 6A resistive load and ferromagnetic transformer
 - 2A incandescent, fluorescent lamp and inductive load

ROOM THERMOSTATS

Device	LIVING	LIGHT	LIGHT TECH
A	L4441	N4441	NT4441
B	L4442	N4442	NT4442
C	L4442/127	N4442/127	—

These thermostats control the room temperature through an electronic detector that operates an output relay.

The following parts are on the front part of the devices:

- knob for setting the selected temperature
- LED for indicating the operation status
- commutator for selecting "summer/winter"

Common technical features – devices "A", "B" and "C"

- power supply "A" e "B" 230V a.c. $\pm 10\%$ 50/60Hz 0,6W - "C" 127V a.c. $\pm 10\%$ 50 and 60Hz
- output contacts 2A 250V a.c.
- room temperature setting range: 5 to 30°C
- recommended installation height from floor: 1.5m (away from heat sources and draughts)
- do not install in boxes where there are dimmers
- max conductor size = 2x2.5mm²
- overall size: 2 modules

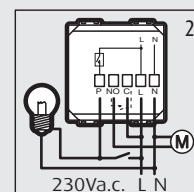
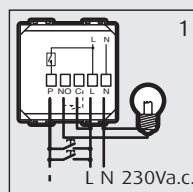
Technical features – device "A"

- for heating and air-conditioning systems (boilers, fan-coil units, air-conditioners, fan heaters)
- set up for external "summer/winter" commutator
- switched output contact

Technical features – device "B" and "C"

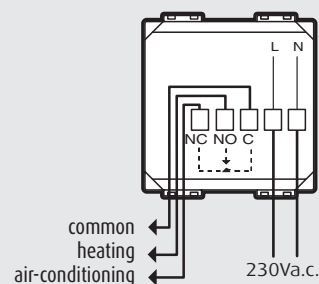
- for heating and air-conditioning systems (boilers, fan-coil units, air-conditioners, fan heaters)
- built-in "summer/winter" commutator
- output contact NO

Wiring diagrams

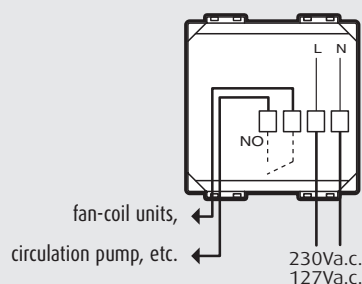


- 1 - The lamp turns on when the pushbutton is pressed and stay on for the set time.
- 2 - The lamp and motor turn on when closing the switch. On opening of the switch, the lamp goes off while the motor keeps running for the set time.

Wiring diagram – device "A"



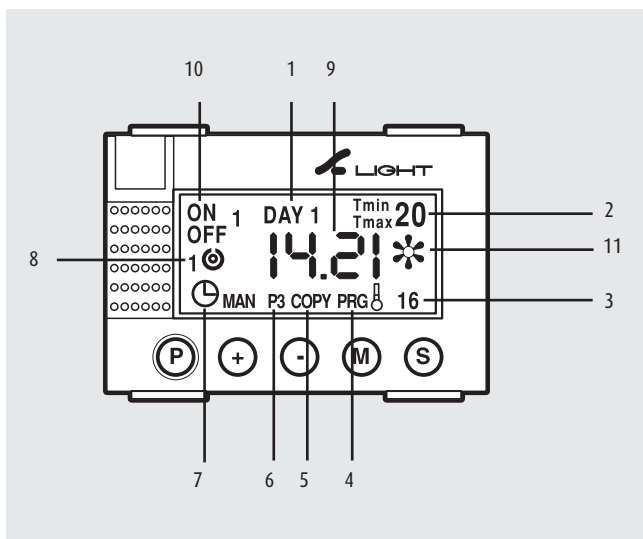
Wiring diagram – device "B" and "C"



ELECTRONIC CHRONOTHERMOSTAT 230V A.C.

	LIVING	LIGHT	LIGHT TECH
A	L4448	N4448	NT4448
B	L4448/127	N4448/127	-

The electronic chronothermostat, perfectly modular with the other devices, takes up 3 modules and can be replaced with any type of pre-existing timer or chronothermostat provided that a power line voltage is available in the installation area. The output on the switched contacts pilot-operated by a relay is totally independent and separated from the programming and adjustment electronic circuit.



Keys

- + forward movement (continuous pressure = fast forward movement)
- backward movement (continuous pressure = fast backward movement)
- M memory
- P programming setup
- S program selection
- P+M device reset

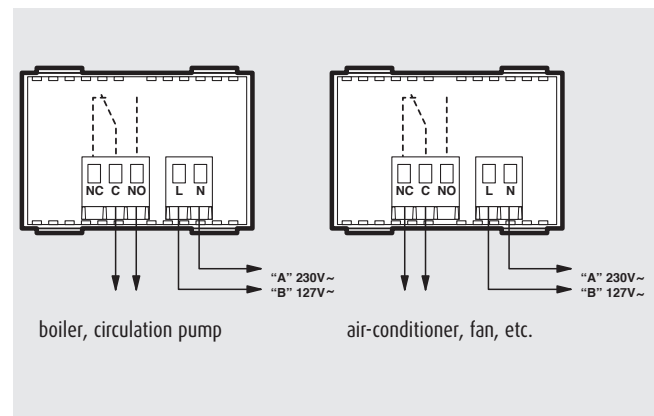
Indexes

- 1 day of the week
- 2 value of set temperature
- 3 value of room temperature
- 4 programming in progress
- 5 copying of the programming
- 6 type of program (MAN, P1, P2, P3)
- 7 time setting in progress (hour, minutes, day)
- 8 output operation status
- 9 hour - minute
- 10 programming phase (ON1, OFF, ON2, OFF2, etc..)
- 11 antifreeze function

Technical data

- 4 types of programs: MAN, P1, P2, P3
- manual control
- possibility to program two different temperatures
- permanent indication on the liquid cristal display of: the time, day of the week, room temperature, type of program selected and device output operation status
- back-up battery for saving data: 30 day battery life
- minimum time between a programmed operation and the next: 1 minute
- temperature values that can be set: 7 to 35°C (with a one-degree minimum interval)
- operating voltage: "A" 230V a.c. $\pm 10\%$ 50Hz - "B" 127/110V a.c. $\pm 10\%$ 50/60Hz
- voltageless switched contact: 5A $\cos\phi$ 1 - 2A $\cos\phi$ 0.5
- max conductor size: 2x2.5mm² for heating and air-conditioning systems (boilers, fan-coil units, air-conditioners, fan heaters)
- set up for external "summer/winter" commutator.

Wiring diagram



Control

3V BATTERY-OPERATED ELECTRONIC CHRONOTHERMOSTAT

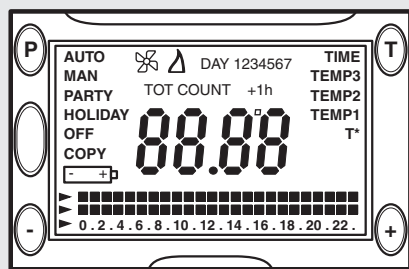
LIVING	LIGHT	LIGHT TECH
L4449	N4449	N4449

The chronothermostat, which can be used for heating and air-conditioning systems, makes it possible – through several programming possibilities – to adjust the temperature at any time of the day and in a differentiated manner, every day of the week. It is possible to choose how to use a standard program (already stored but can be changed according to the specific needs of the user) or to create a new one with a simple

Technical data

- minimum time between a programmed operation and the next: 15 minutes
- max no. of temperature changes in a day: 8 (4 ON/OFF cycles)
- temperature interval shown on the display: 5°C to 45°C
- temperature values that can be set: 7°C to 35°C (with a 0.5°C minimum interval)
- accuracy of controlled temperature: $\pm 0.5^\circ\text{C}$
- power supply: two 1.5V alkaline batteries type LR67AA
- battery life, no longer than two years
- charge back-up: 2 minutes for replacing the batteries
- flush-mounting or wall-mounting installation with boxes and supporting frames for series LIVING INTERNATIONAL, LIGHT, LIGHT TECH
- voltageless output contact rate: 1A
- possibility of connecting an external gauge for the temperature (NTC R 25°C = 100k Ω - max connection length, 5 metres)
- possibility of remote controlling the chronothermostat (for example, with a phone call through the PBX switchboard).
- max conductor size: 2.5 mm²

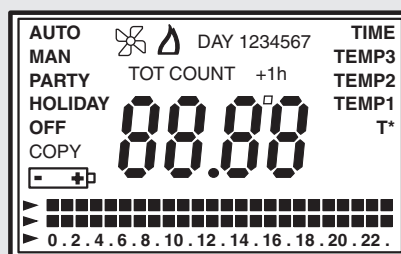
Recurrent function keys



- P selecting operation modes
- T temporary display of the temperature values or of the current time
- + - adjustment of temperature and time parameters:
+ forward movement – backward movement (the extended pressure on the pushbutton enables the fast forward movement)

programming procedure. A large display shows you at all times the program settings, the status of the system and the temperature of the room. The chronothermostat has a base for making electrical connections to the system (which can be installed on the supporting frames, for series LIVING INTERNATIONAL, LIGHT and LIGHT TECH) and a removable part including its controls and a large display.

Numerical display

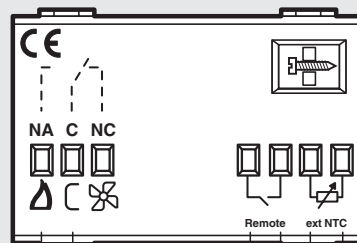


Numerical display
Constantly displays the room temperature.
Use the T key to cyclically display
TEMP3-TEMP2-TEMP1, TIME and ANTIFREEZE TEMPERATURE.
When programming, it displays different parameters to be set.

Various indications

- TIME** – procedure for setting/displaying the time and current day
- +1h** – daylight saving time
- battery symbol – dead batteries signal
- copying of the daily programming.

Wiring diagram



to the loads to be checked

connection external gauge (NTC R 25°C = 100k Ω max length 5 metres)

remote activation
closed contact = manual program with antifreeze mode
open contact = automatic program (last selected)

PROGRAMMER

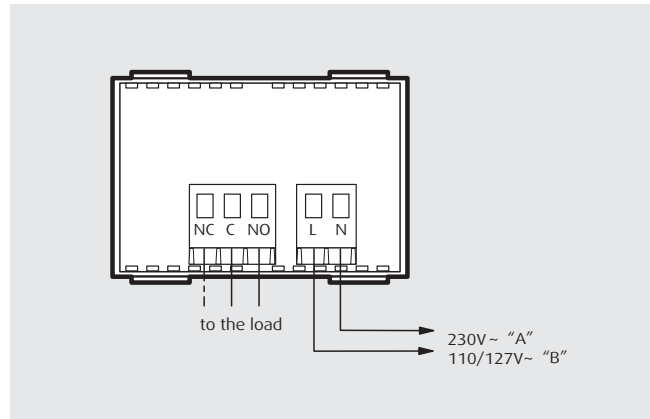
	LIVING	LIGHT	LIGHT TECH
A	L4466	N4466	NT4466
B	L4466/127	N4466/127	—

This daily/weekly cycle programmer enables the automatic connection or disconnection, with a maximum absorption of 8A, according to a fixed time set by a user.

Technical data

- daily/weekly cycle with 4 daily connections and disconnections
- operating voltage: "A" 230V a.c. $\pm 10\%$ 50/60 Hz
"B" 110/127V a.c. $\pm 10\%$ 50/60 Hz
- voltageless switched contact
- controllable loads:
 - 2A inductive load
 - 4A fluorescent lamps
 - 6A incandescent lamp and ferromagnetic transformers
 - 8A resistive load
- minimum time between one operation and the next: 1 minute
- charge back-up: 30 days
- permanent indication on the liquid cristal display of: the time, day of the week and connected/disconnected load
- display, if required, of the program setting
- manual control
- max conductor size: 2.5 mm²

Wiring diagram "A" and "B"



ALARM CLOCK

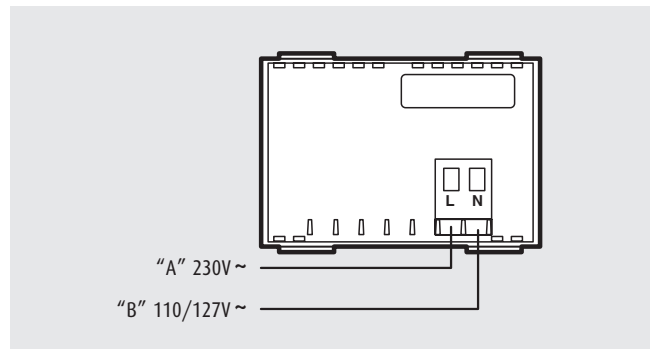
	LIVING	LIGHT	LIGHT TECH
"A"	L4470	N4470	NT4470
"B"	L4470/127	N4470/127	—

The illuminated liquid cristal display alarm clock is powered through the power line voltage and has an internal back-up battery that guarantees a life of one month in case of power supply failure. The display shows the time, minutes, day of the week and the symbol of the functioning clock. The sound signal, emitted through an electronic bell, can be disabled by pressing any pushbutton. In any case, it goes off after a minute.

Technical data

- electronic alarm clock with built-in bell
- power supply: "A" 230V a.c. $\pm 10\%$ 50/60Hz - "B" 110/127V a.c. $\pm 10\%$ 50/60Hz
- illuminated display
- charge back-up: 30 days
- indication on the liquid cristal display of: the time, minutes, day of the week and alarm clock activation
- max conductor size: 2.5 mm²

Wiring diagram "A" and "B"



Audible and luminous signalling devices

HEARING REQUEST

LIVING	LIGHT	LIGHT TECH
L4550	N4550	NT4550

The hearing request system allows the user, provided with the Master module, to control the entrance requests in the room in which the user is situated and, at the same time, to send reply messages to the display modules from which the request has been forwarded. The system can also be equipped with additional display modules to inform other people of what is happening.

The LIVING INTERNATIONAL, LIGHT AND LIGHT TECH hearing request system and paging module includes two main elements:

- the module (item L4550 - N4550 - NT4550)
- the power supply unit (item 4930/05 - item 4930/1 - 4930/3 supplied separately)

The system can be completed with a:

- selection pushbutton (item L-N-NT4005)
- remote control (item 392123 for setting up messages).

Depending on how it will be configured, the following functions can be assigned to the module:

- master
- answering system / paging module
- off-door

Technical data

power supply: 9Vd.c.
 max absorbed current: 140 mA (each device)
 operating temperature: 5 ° to 40 °C
 degree of protection: IP30
 preset messages (which can always be changed): 9
 preset languages that can be selected: IT - E - GB - F
 overall size: 3 modules

Terminal connection

C+ = positive for display modules
 + = positive for the master module
 - = negative (common to all configurations)
 S = terminal for configuration

Answering system / paging module

F = terminal for Off-door configuration

Wiring diagrams for the configuration of modules

The installation is carried out with two wires only. When wiring, a simple "CONFIGURATION" can assign one of the following functions to the module:

- master station (Fig. 1)
- off-door external station (Fig. 2)
- answering system / paging module external station (Fig.3)

Fig.1: master station

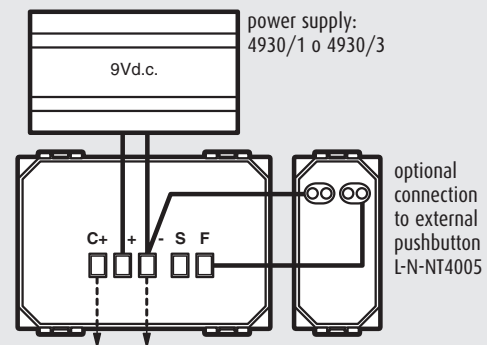


Fig.2: off-door external station

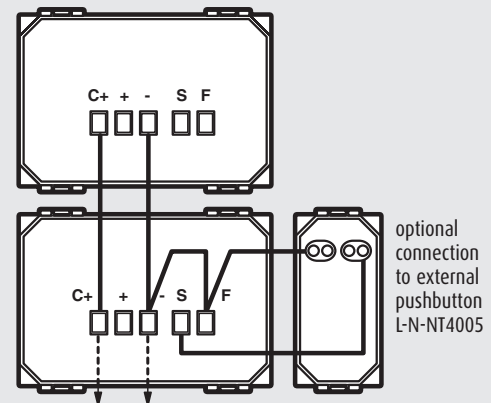
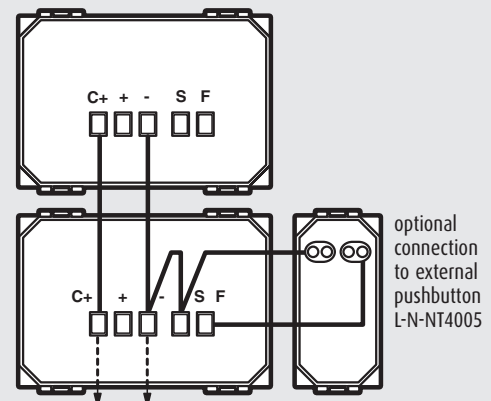


Fig.3: answering system / paging module external station



ELECTRONIC BELL

LIVING	LIGHT	LIGHT TECH
L4355/12	N4355/12	NT4355/12

The electronic bell has 3 sounds, all of which are continuous and intermittent and pilot-operated from three different paging locations.

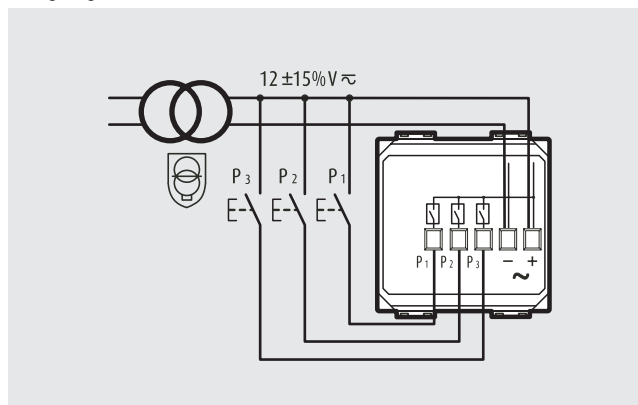
It is also possible to adjust the volume of the required sound with the controller located at the front.

The 12V power supply can be used with direct current or alternate current.

Technical data

- power supply: 12V d.c./a.c. $\pm 15\%$ 50/60Hz
- absorption:
150mA with pressed pushbutton
15mA at rest

Wiring diagram



PULL-OUT EMERGENCY TORCH

LIVING	LIGHT	LIGHT TECH
L4380	N4380	NT4380

The device includes a charger base and a lamp with replaceable back-up batteries. It turns on automatically when the electrical power goes out. The "lamp" unit can be removed so that it can be used as a normal rechargeable torch.

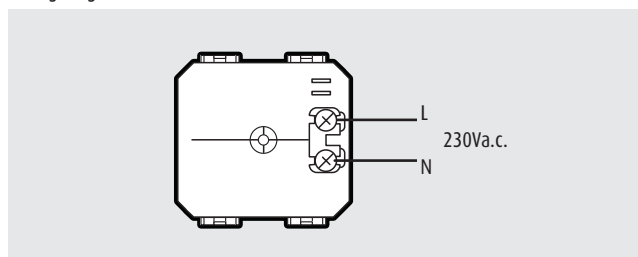
It also includes two LEDs which indicate the type of function being used and a slide switch for enabling or disabling the device thereof (this is important for preventing it from being switched on in case of an intentional disconnection of the power service).

The battery recharge is also temporarily inactive when the device is disabled (red LED ON). It is possible to exclude the removal of the lamp unit by putting in a special lock screw located at the bottom of the device.

Technical data

- pull-out emergency torch with automatic switch-on device
- charger base with safety connector equipped with a screen
- lighting source: white-lighted LED
- rechargeable battery: type Ni-MH without "memory" effect, interchangeable
- life: 2 hours
- stand-by consumption: 0,4W
- power supply: 230/127V a.c. $\pm 10\%$ 50/60 Hz - 110V a.c. $\pm 10\%$ 60 Hz
- max conductor size: 2.5mm²
- overall size: 2 modules

Wiring diagram



Emergency devices

EMERGENCY LAMPS

LIVING	LIGHT	LIGHT TECH
L4384/...	L4384/...	L4384/...
L4386/...	L4386/...	L4386/...
L4784/...	L4784/...	L4784/...
L4786/...	L4786/...	L4786/...

Emergency and lighting

The new high-efficiency luminous and long-lasting emergency lamps are available in two versions: version with the one-function emergency lamp or the lamp with permanent emergency and lighting. The first ones start operating automatically in case of a power supply failure, then they turn off again when the power is back; the second ones use the emergency function together with the permanent switch-on to light up rooms that need artificial lighting 24 hours a day, for example corridors or internal stairways without windows.

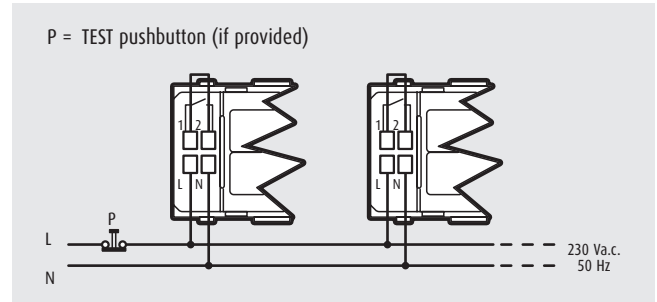
Control functions

Every lamp is supplied with a LED, which indicates that there is a flow of electricity, and a pushbutton that lets you turn it off when used for emergencies in order to prevent the batteries from uselessly running down, for example when you intentionally turn off the main switch to carry out electrical maintenance on the system. When there are several lamps, it is possible to exclude them with a remote switch.

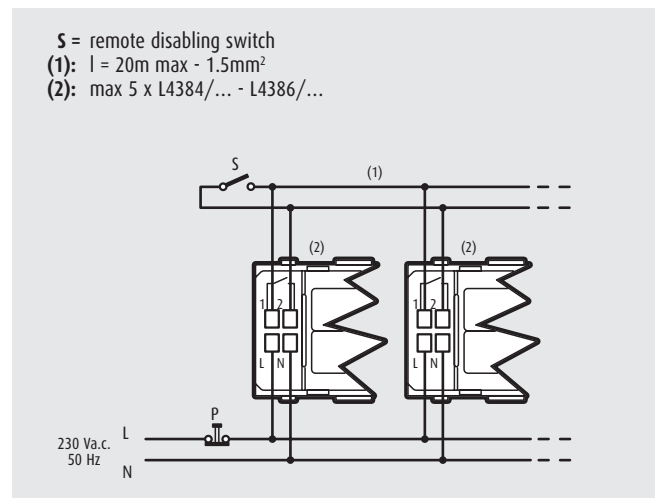
Spare batteries

The lamps are supplied with batteries placed in the back, easily accessible for their replacement. In fact, the batteries can be supplied separately as spare parts.

Wiring diagram



Wiring diagram for disabling the operation of the emergency lamp



Technical features

Emergency		Emergency and lighting		Battery Item	no. of modules	Life (h)	Lamp power (W)	Consumption (mA)	Cos φ	(Im)
										230Vac
L4384/1				L4784/1	4	1	1	13	0.2	8
L4384/3				L4784/3	4	3	1	30	0.3	8
L4386/1				L4786/1	6	1	1.3	10	0.35	22
L4386/3				L4786/3	6	3	1.3	12	0.35	22
	L4386/1L			L4786/1	6	1	1.3	25	0.5	22
	L4386/3L			L4786/3	6	3	1.3	25	0.5	22
										127Vac
L4386/1/127				L4786/1	6	1	1.3	17	0.4	22
L4386/3/127				L4786/3	6	3	1.3	22	0.4	22

Devices for sound system

SOUND SYSTEM

The centralized basic sound system version includes:

- a power supply unit that can be placed in the apartment central unit
- an input preamplifier to be placed in the vicinity of the sound source
- several listening units consisting of one or two loudspeakers and a local amplifier to be installed in rooms that require a loudspeaker system with up to 12 loudspeakers (48 with the expansion module).

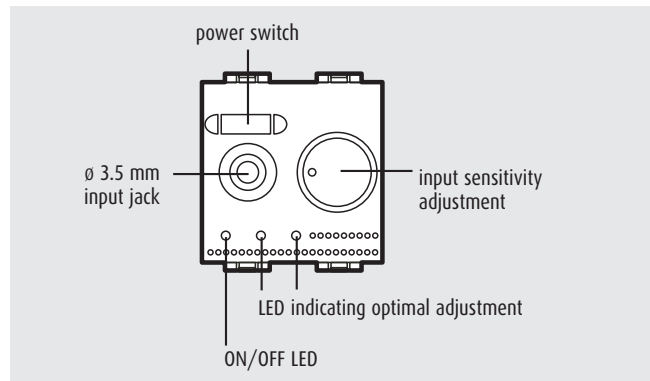
The **power supply unit item E45/24 DC** (switching type) provides all components of the system with extremely low safety voltage (SELV) 24V d.c. 1A; it is modular with the Btdin series, thus it can be installed in the apartment central unit.

The **input preamplifier item L/N/NT4481** has a \varnothing 3.5 mm connector at the front to facilitate the connection to each type of audio source through the adjustment wire item L4753; its function is to adapt the level of the audio signal provided by the device connected to the features of the system. The preamplifier also gives you the possibility to pilot-operate a **monostable relay (item L/N/NT4499)** for remotely turning on and off the audio source and, at the same time, turn on any listening point.

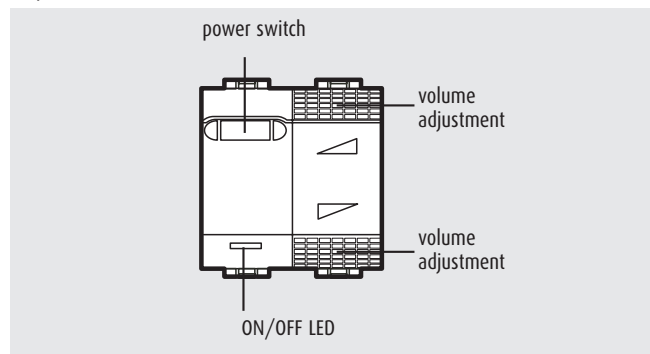
The **local amplifier, item L/N/NT4485**, lets you adjust the volume of the loudspeaker. Its activation determines the remote activation of the preamplifier and sound source through the relay.

The flush mounting **loudspeaker**, which can be installed in the 506E boxes, has a cover grille that adapts perfectly to the features of the local amplifier; thus the sound quality can be guaranteed even when two parallel-connected loudspeakers are connected to one amplifier in order to send out the sound to larger rooms.

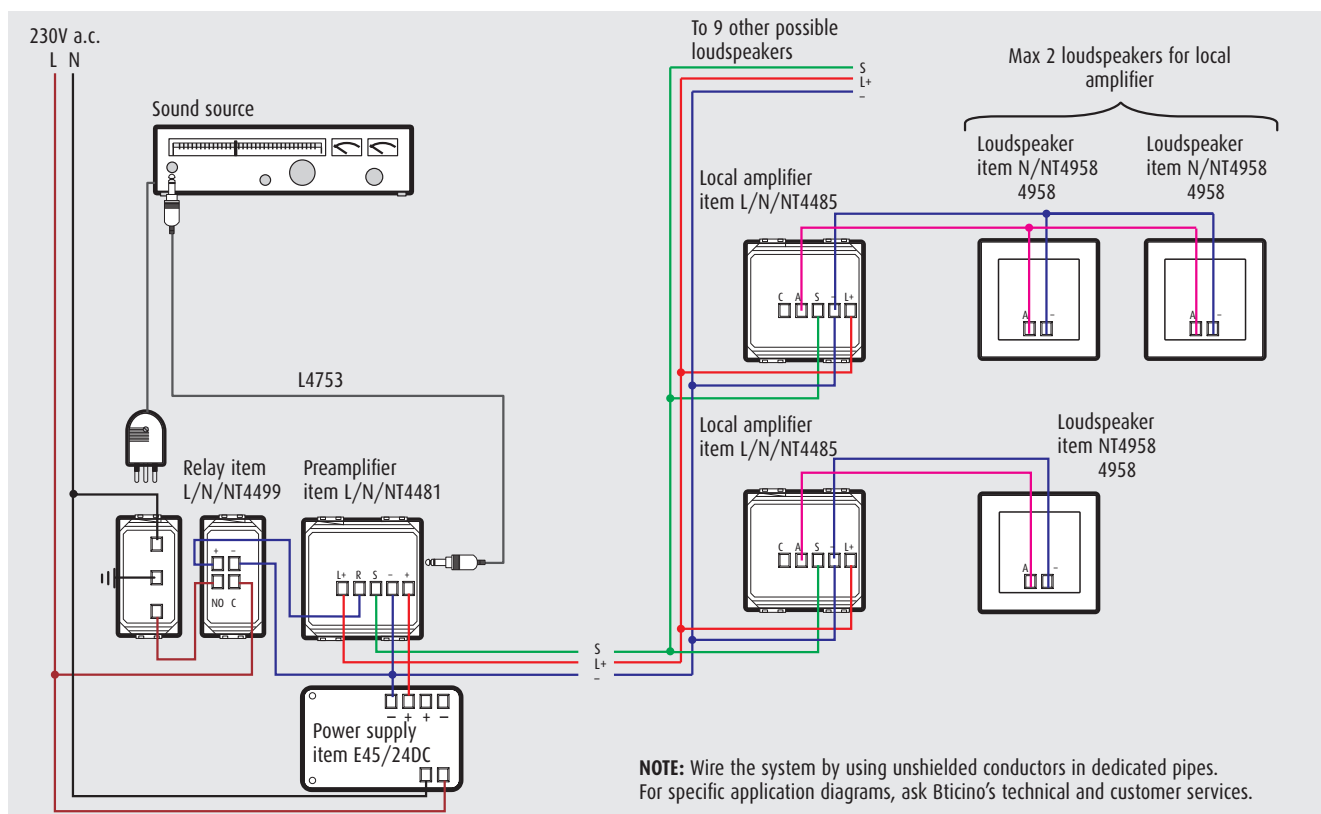
Input preamplifier



Amplifier



Basic system diagram for system with max 12 loudspeakers

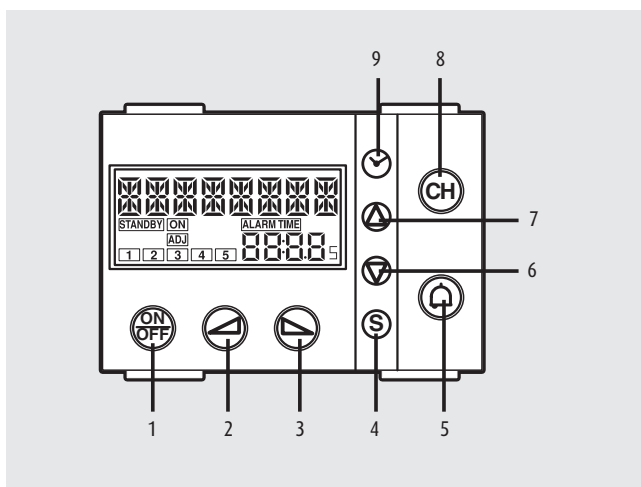


NOTE: Wire the system by using unshielded conductors in dedicated pipes. For specific application diagrams, ask Bticino's technical and customer services.

Devices for sound system

RADIO TUNER ITEM L/N/NT4492

This device has a radio alarm clock function which can be installed with an input preamplifier, in two-trunking systems or, as its replacement, in single trunking systems. You can tune in FM stations with its manual auto-search by using the memory pushbuttons (6 and 7). You can store up to 5 channels, the selection of which can be made with the CH (8) pushbutton or with external pushbuttons connected to the rear terminal. If you press the CH pushbutton or external pushbuttons when the radio is off, you will switch it on. At the same time, you will remotely switch on the amplifier (item L/N/NT4485) if connected to the tuner through terminal C located at the back of the



two devices. The lit display will show the following information: the RDS message, the frequency of the channel tuned-in, the set sound level, the current time, the programmed time of the alarm, the selected channel and the ON/OFF indication of the alarm. An internal back-up battery stores the previous settings as well as the time in case the power goes out; with this condition, the display will not be lit up and the pushbuttons will not be active. pushbuttons (2) and (3) adjust the general maximum volume which can be reduced locally with the amplifier pushbuttons. The device is supplied with a wire antenna which should be placed in the electric system duct.

Common technical features

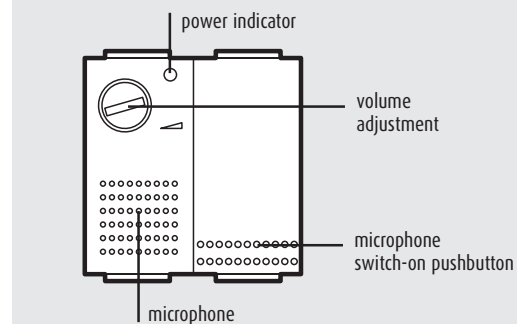
- power supply: 24V d.c.
- absorbed current: 100mA ± 10%
- output signal: 4 Vpp su 10kΩ
- PLL frequency range: 87 to 108MHz
- overall size: 3 modules

Functions of pushbuttons

- 1 - ON / OFF
- 2/3 - general maximum volume adjustment
- 4 - display selection of alarm time, current time, frequencies
- 5 - alarm activation / deactivation
- 6 / 7 - time setting or frequency selection
- 8 - radio ON or channel changing (in parallel to other required external pushbuttons)
- 9 - programming of current time or alarm

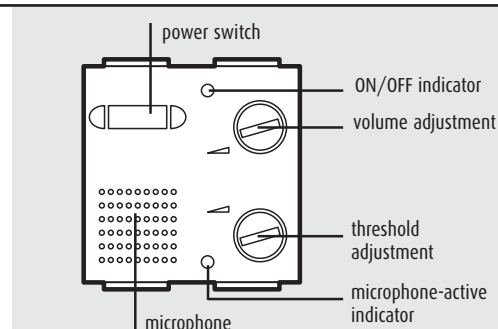
PAGING MODULE ITEM L/N/NT4488

At the front side, the paging module has a microphone through which it is possible to send voice messages; a pushbutton enables this device. For the entire duration of the pressure of the pushbutton, the music emission will stop and the message will be emitted from all listening points. When the pushbutton is released, the initial condition will be restored. The volume of the transmitted message can be changed with an adjuster located on the module thereof, and it is independent of the settings made on single listening points.



NOISE MONITORING MODULE ITEM L/N/NT4489

At the front side, the paging module has a microphone through which it is possible to send voice messages; a pushbutton enables this device. For the entire duration of the pressure of the pushbutton, the music emission will stop and the message will be emitted from all listening points. When the pushbutton is released, the initial condition will be restored. The volume of the transmitted message can be changed with an adjuster located on the module thereof, and it is independent of the settings made on single listening points.



COMPACT LOCAL AMPLIFIER ITEM L/N/NT4486

This device, which is not equipped with sound volume adjustments nor switch-on controls, is combined with the radio tuner item L/N/NT4492 to achieve mini sound systems with an alarm function used for hotel rooms. The radio tuner goes on at the set time and broadcasts the selected radio

program through the compact local amplifier and connected loudspeakers. The sound volume adjustment is made by using the appropriate controls located at the front side of the radio tuner.

Electrical safety devices

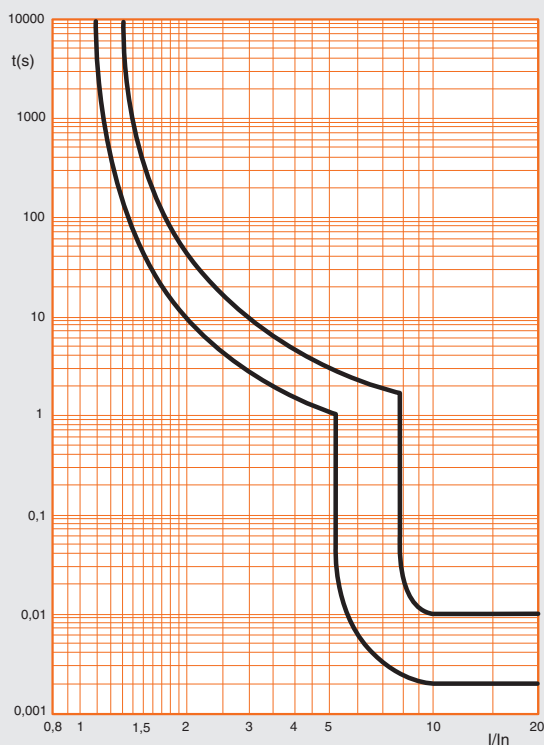
EARTH LEAKAGE THERMAL MAGNETIC CIRCUIT BREAKERS

Device	LIVING	LIGHT	LIGHT TECH
A	L4301/6	N4301/6	NT4301/6
	L4301/10	N4301/10	NT4301/10
	L4301/16	N4301/16	NT4301/16
B	L4305/6	N4305/6	NT4305/6
	L4305/10	N4305/10	NT4305/10
	L4305/16	N4305/16	NT4305/16

Automatic thermal magnetic circuit breaker (1 module) device "A"


Two-pole version with one protected pole. Extends the possibility to use these automatic devices with single-phase circuits, for which there should be a two-pole break.

Tripping features



Tripping feature of circuit breakers recorded with cold start to room temperature $T_a = 20^\circ\text{C}$
 I = actual current
 I_n = rated current of the switch
 A red/green flag shows the position of the contacts (closed or open).

"Salvavita" automatic earth leakage thermal magnetic circuit breaker (2 mod.) device "B"

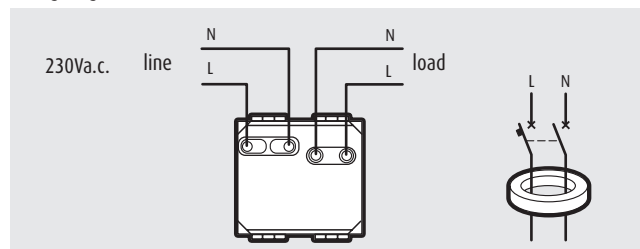
The device has an electronic earth-leakage release which is self-powered through a built-in rectifier. It gives additional protection against direct contact with parts connected to the power supply. This electronic solution enables the device to detect earth-fault leakage current with continuous components (earth leakage - type A ) and reduce accidental trips due to line disturbances. A red/green flag shows the position of the contacts (closed or open). In a system sized according to the IEC Standards, a correct installation requires a "Salvavita" upstream of an automatic earth leakage thermal magnetic circuit breaker with $I_{\Delta n} = 30\text{mA}$.

Technical features

- rated current: 6-10-16A
- rated voltage: 230V a.c. 50Hz
- rear terminals
- max conductor size: 4mm²
- overcurrent protection on phase
- breaking capacity: I_n 6A: 1500A 230V a.c.
 I_n 10-16A: 3000A 230V a.c.
- tripping features - type C
- differential breaking capacity - device "B": 500A
- differential rated current - device "B": 10 mA
- maximum specific pass-through energy I^2t (A²s):

breaking capacity	I_n 6A	10A	16A
1500A	7500	11000	13000
3000A		28000	30000

Wiring diagram - device "B"



The principle of the above diagram goes for devices "A", too.

FUSECARRIERS

LIVING	LIGHT	LIGHT TECH
L4231	N4231	NT4231

Features of fuses installed

Item fusecarrier	Type of fuse	Size of fuse	Voltage rating	Rated current	Coupling	Max. conductor size to terminals
L/N/NT4231	miniature glass body	5x20 mm 6.3x32 mm	250V a.c.	max 10A	bayonet	4 mm ²

Electrical safety devices

INTERLOCKED SOCKETS

LIVING	LIGHT	LIGHT TECH
L4311/10	N4311/10	NT4311/10
L4311/16	N4311/16	NT4311/16

Interlocked sockets – 2 modules

2P+E two-pole thermal magnetic circuit breaker with one protected pole and interlocked socket.

These assemblies include the following:

- a) protection of one pole (phase) and opening of the neutral
- b) “open” switch socket with socket contacts totally separated from the electric power supply mains (double-pole break) socket/switch interlock.

A special mechanism prevents closing the switch (supplying the socket) if the plug has not been previously plugged in. It can also prevent pulling out the “charged” plug (with user’s device electrically-powered). As a matter of fact, in this case, the extraction attempt (with switch closed) will immediately open the switch thereof (plug still connected to the socket contacts).

Technical features

- rated current: 10-16A
- rated voltage: 230V a.c.
- max conductor size: 2.5mm²
- breaking capacity: 3000A 230V a.c.
- degree of protection: shielded socket contacts 2.1

GAS DETECTORS

LIVING	LIGHT	LIGHT TECH
L4611/12	N4611/12	NT4611/12
L4612/12	N4612/12	NT4612/12
L4520	N4520	NT4520

The range of gas detectors includes:

- methane gas detectors
- GPL gas detectors

Methane and GPL gas detectors comply with standard UNI CEI 70028 and with the European standard project EN 50194.

All detectors use the latest-generation semiconductor sensors; this feature makes every device extremely selective on the gas for which it was rated, thus the possibilities of accidental alarms are reduced. They are controlled by a microprocessor and are provided with an internal self-test for signalling possible anomalies of electronic components of the sensor and of external connections. A series of LEDs and a audible signalling device indicate proper power supply, a possible anomaly or an alarm situation. As required by the Standards, all devices are sensitive to just one type of gas and clearly show the name of the manufacturer, the type of gas for which they were made, the recommended replacement date, the guaranteed period of operation, etc.. All devices are made in a two-module enclosure.

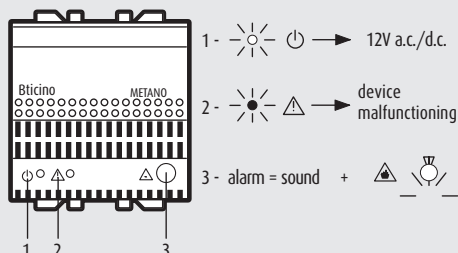
Only the configuration that requires an installation combined with the repeater and detector is covered by the IMQ - UNI - CIG mark of conformity, according to the Standard UNI CEI 70028.

Technical features

- power supply: 12V a.c./d.c. ± 10%
- absorbed power: max 2W
- operating temperature: 5 to 40°C
- loudness level of the alarm signal: 85dB a 1m
- operative sensitivity: 10% of the gas explosion level, lower limit

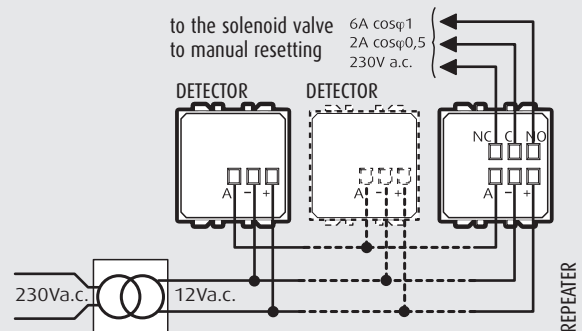
Alarm indications and proper operation

The alarm, failure and proper power supply indication is signalled by the LEDs and by the audible signalling devices which bear the standard symbols required by the regulation.



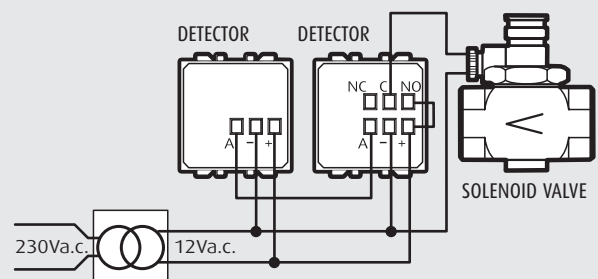
Wiring diagrams

Connection to a gas detector and a signal repeater.



For systems with 3 devices, use transformer item F91/12E

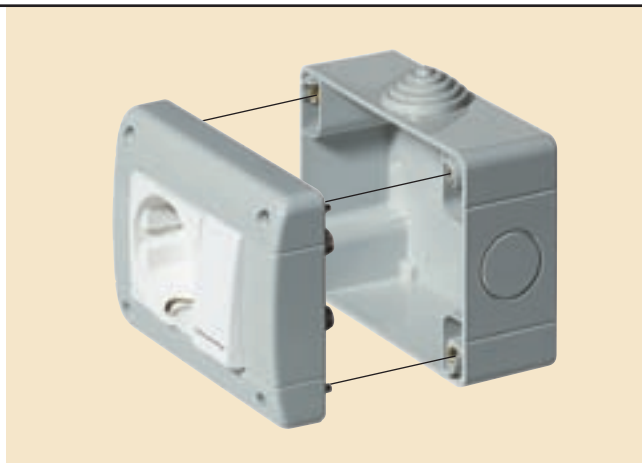
Connection to a gas detector, a signal repeater and solenoid valve.



IP40 and IP55 enclosures

IP40 ENCLOSURES

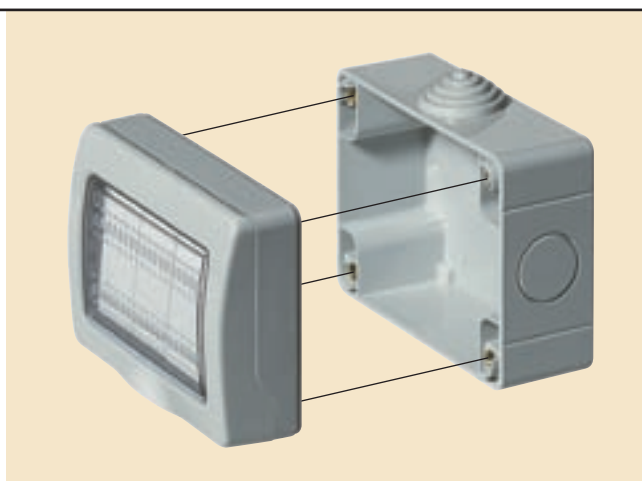
These boxes consist of a base and of a cover in which (if required) pre-connected snaplock devices can be fitted from the back side. This set of products is suitable for uses in tough and environmentally difficult places such as roofs, storehouses, basements, etc. Thanks to their excellent features (resistance to high temperatures and fire), these boxes are suitable for electric systems installed in high-risk places (e.g. in case of fire), as required by the Standards IEC 64-8 section 7. Therefore, they can be used in buildings built with inflammable material (e.g. wood) or in places containing highly inflammable material (thermal power stations, lumberyards).



IP55 ENCLOSURES

These boxes have a snap-lock front door with an elastic sheath. The IP55 degree of protection is guaranteed by a watertight seal and by a special snaplock fastening system. These products are generally used in particular places such as: wet and moist places, places exposed to adverse weather or water jets (for example in a car-wash).

They can be used for installing electric systems in places with class 3 explosion hazards (AD-FT systems in compliance with Standard IEC 64-2) since its base and front door are made of self-extinguishing resin with high resistance to fire and high temperatures.



Choosing enclosures according to their use

Environments		Minimum required IP degree
Household	Basements	IP40
	Attics	
	Indoor garages	
Household	Bathrooms or shower rooms	IP44
	Boiler room	
	Outdoor garages	
Household	Swimming pools	IP55
	Store houses	
Service industry	Shopping centers	IP40
	Stores	
	Classrooms	
	Libraries	
	Museums	
	Offices	
Service industry	Healthcare facility	IP44
	Anaesthesia and surgery rooms	
Service industry	Laundries	IP55
	Places with explosion hazards (class 2E)	

Technical features of enclosures IP40 and IP55

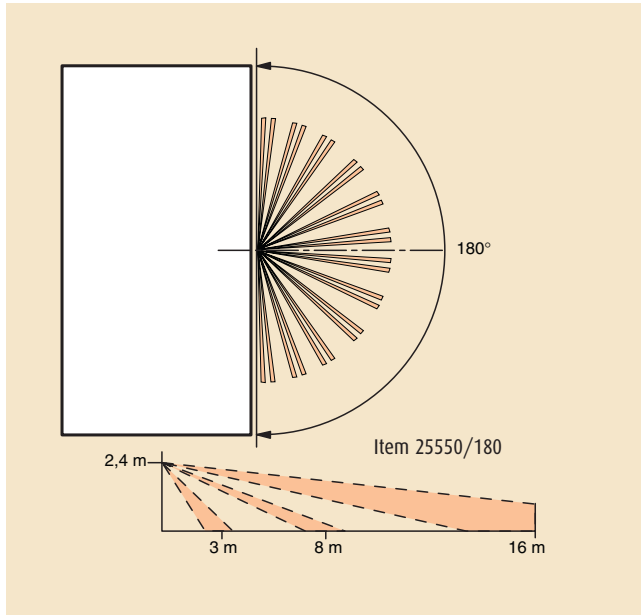
- Material of boxes IP40: ABS (base and cover)
- Material of boxes IP55: ABS (base), polycarbonate (cover chassis) and PVC (pliable sheath)
- Temperature range: -5 to +40°C
- Resistance to abnormal heat and fire up to 652°C
- IMQ approval according to Standard CEI 23-48 (IEC670)

NOTE: The IP55 degree of protection of the protected covers for boxes item 502 and item 503E is obtained when the cover is closed and when the item is installed on smooth, grooveless and waterproof walls (smooth tiles, marble).

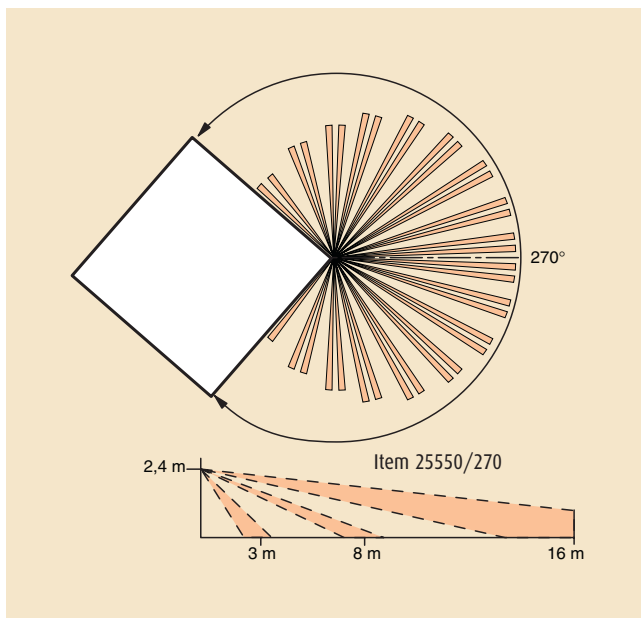
Electronic devices in protected version

SWITCHES ITEM, 25550/180 AND ITEM 25550/270

Coverage range diagram item 25550/180



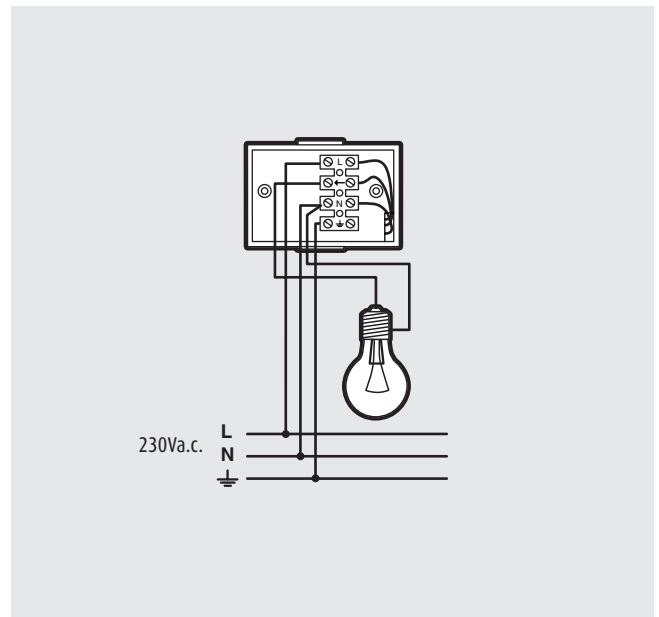
Coverage range diagram item 25550/180



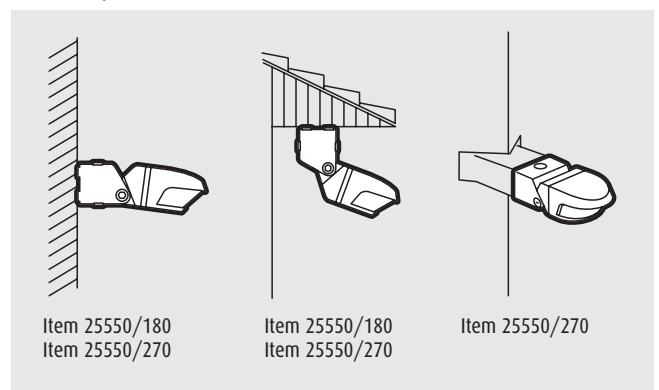
Technical features

- Degree of protection: IP54
- Supply voltage: 230V a.c. 50Hz
- Controllable power:
 - 1000VA (fluorescent lamps)
 - 2000VA (transformers and quartz-iodine lamps)
 - 2000W (resistive loads)
- Closing time of contact:
 - Adjustable from 12 seconds to 16 minutes
- Twilight threshold:
 - adjustable from 10 to 4000 lux
- Detection:
 - high density detection with Fresnel lens optical system
- Sensor: positioned in pivoting ball head
- Horizontal spectrum:
 - 180°/16m (art. 25550/180)
 - 270°/16m (art. 25550/270)
- Minimum installation height: 1.7m

Wiring diagram for automatic control of a lamp



Installation possibilities



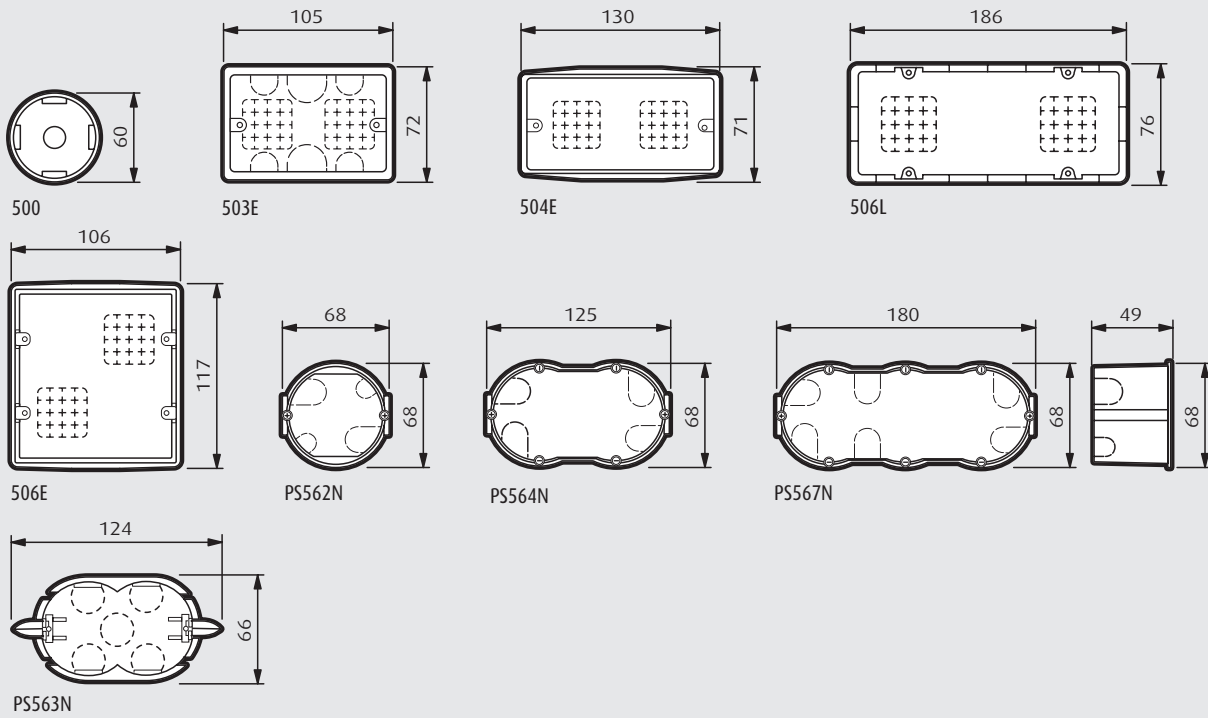
Item 25550/180
Item 25550/270

Item 25550/180
Item 25550/270

Item 25550/270

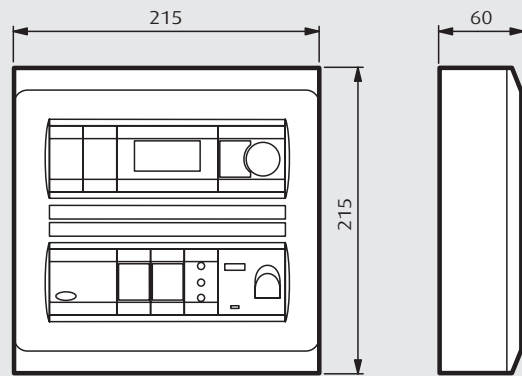
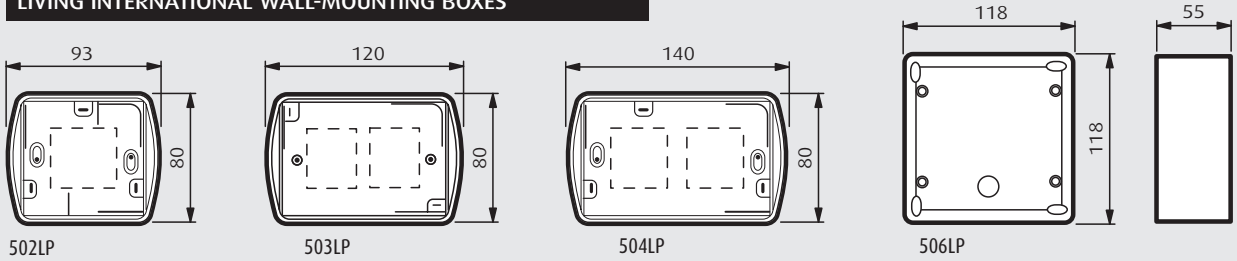
Dimensional data

FLUSH-MOUNTING BOXES



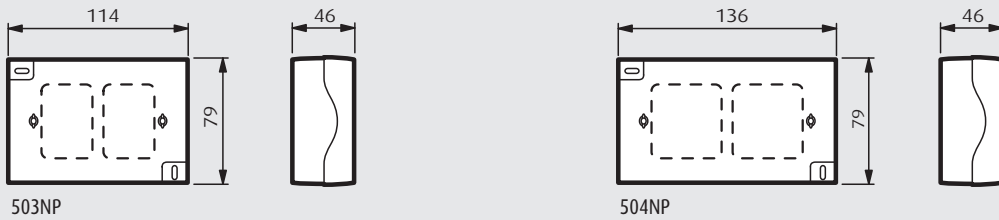
Dimensional data

LIVING INTERNATIONAL WALL-MOUNTING BOXES



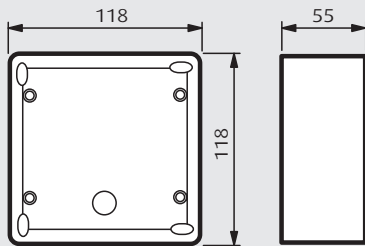
L4714 - N4714 (Box for LIGHT)

LIGHT AND LIGHT TECH WALL-MOUNTING BOXES

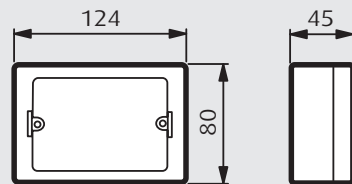


503NP

504NP

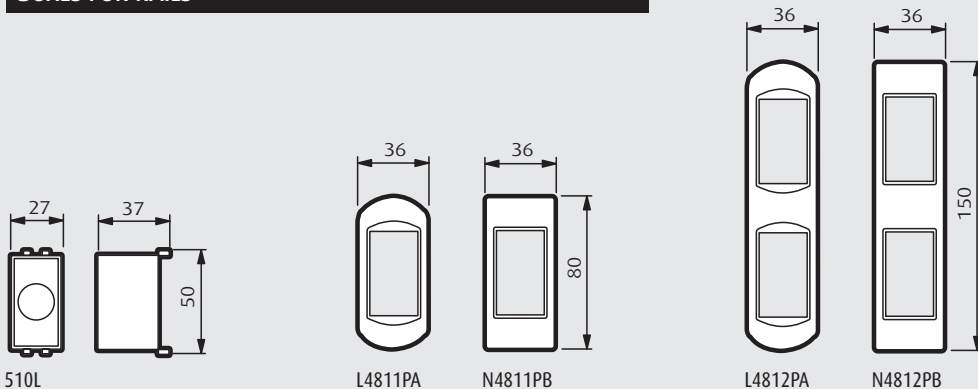


506NP



503BP

BOXES FOR RAILS



510L

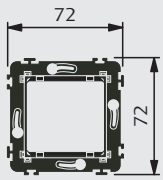
L4811PA

N4811PB

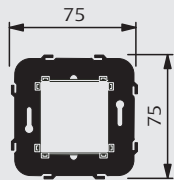
L4812PA

N4812PB

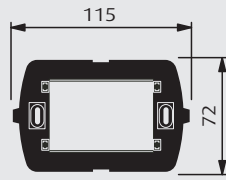
LIVING INTERNATIONAL SUPPORTING FRAMES



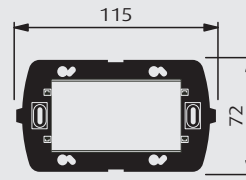
L4702



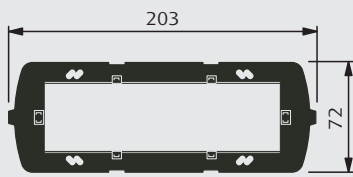
L4702G



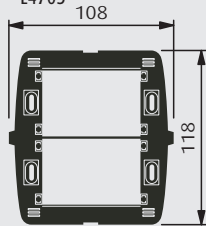
L4703



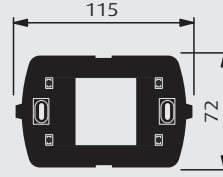
L4704



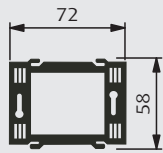
L4707



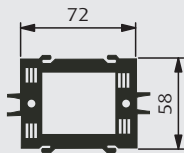
L4716



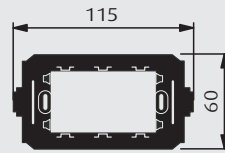
L4722



L4732

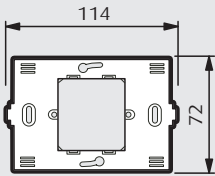


L4732G

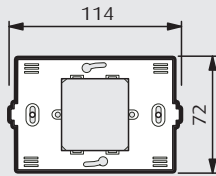


4703

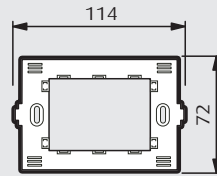
LIGHT AND LIGHT TECH SUPPORTING FRAMES



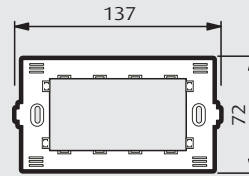
N4719G
N4722



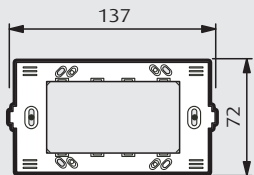
N4719



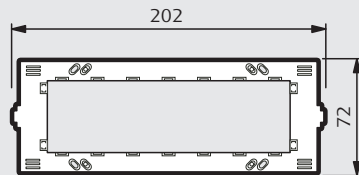
N4703



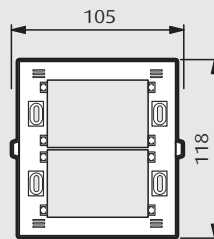
N4704



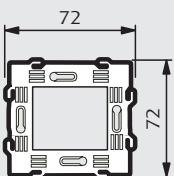
N4704N



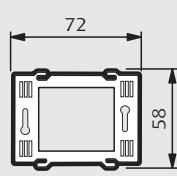
N4707



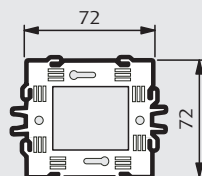
N4716



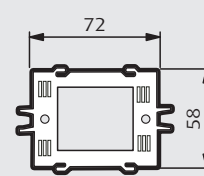
N4702



N4732



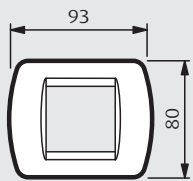
N4702G



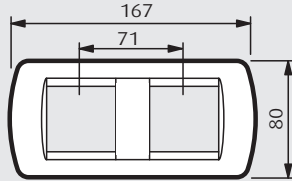
N4732G

Dimensional data

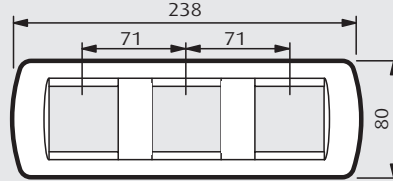
LIVING INTERNATIONAL COVER PLATES



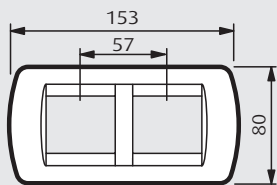
L4802..



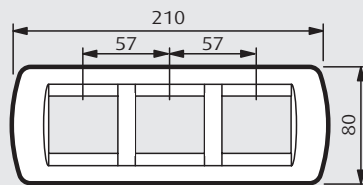
L4802/2..



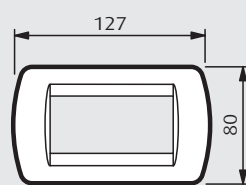
L4802/3..



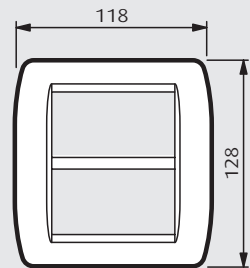
L4832/2..



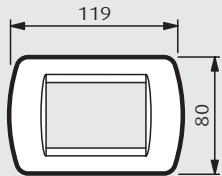
L4832/3..



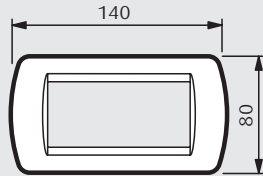
L4863..



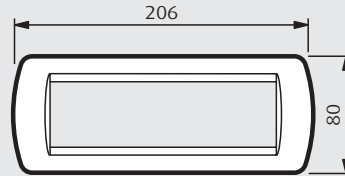
L4816..



L4803..

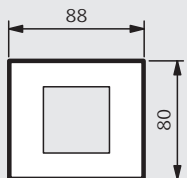


L4804..

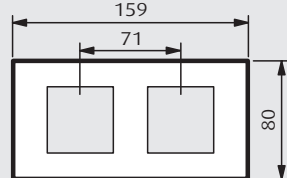


L4807..

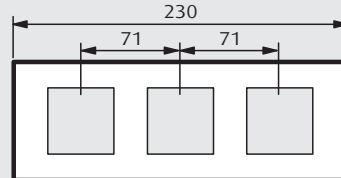
LIGHT AND LIGHT TECH COVER PLATES



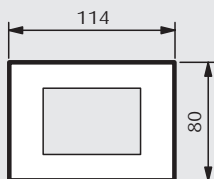
N4802..



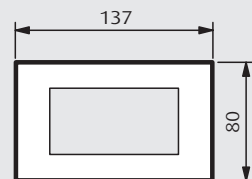
N4802/2..



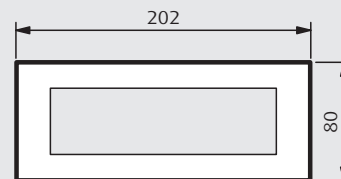
N4802/3..



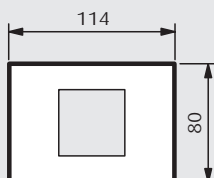
N4803..



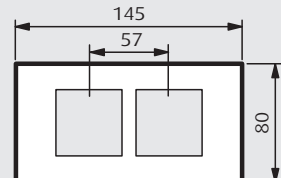
N4804..



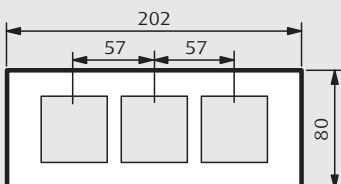
N4807..



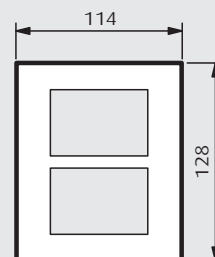
N4819..



N4832/2..

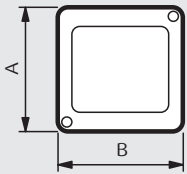


N4832/3..

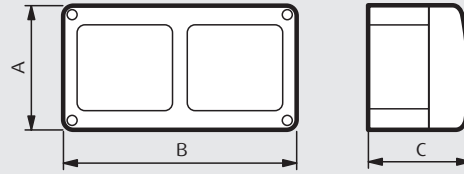


N4816..

IDROBOX IP40 ENCLOSURES

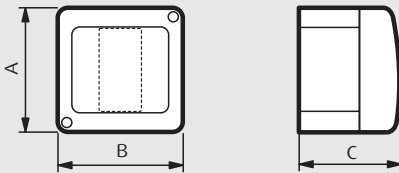


	A	B	C
24401	76	76	55
24402	76	76	55
24403	76	100	55
24404	76	132	55



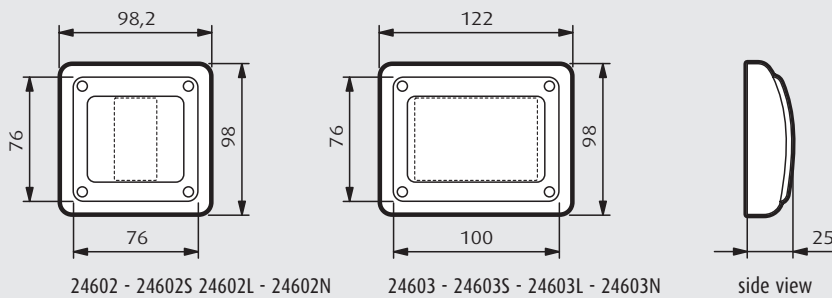
	A	B	C
24404/2	76	132	55
24406	76	188	55

IDROBOX IP55 ENCLOSURES



	A	B	C
24501	76	76	63
24502	76	76	63
24503	76	100	63
24504	76	132	63

IDROBOX PROTECTED COVERS

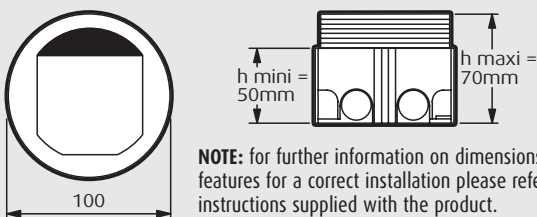


24602 - 24602S 24602L - 24602N

24603 - 24603S - 24603L - 24603N

side view

FLOOR BOXES



NOTE: for further information on dimensions and technical features for a correct installation please refer to the instructions supplied with the product.

Headquarters

ITALY

BTICINO SPA
Via Messina, 38
20154 Milano
Phone: +39 2 34 80 1
Fax: +39 2 34 80 70 8
E-mail: bticino.international@bticino.it
www.bticino.com

Europe

AUSTRIA

LEGRAND OSTERREICH GmbH
c/o Floridotower
Floridsdorfer Hauptstr. 1
A-1210, Wien
Phone: +43 1 27 76 20
Fax: +43 1 27 76 23 10
E-mail: office.legrand@legrand.at
www.bticino.at

BELGIUM

BTICINO SA / NV.
Kouterveldstraat 11, Industriezone
B-1831 Diegem
Phone : +32 2 71 95 41 1
Fax : +32 2 71 95 45 4
E-mail:
info.bticino.belgique@bticino.com
www.bticino.be

GERMANY

SEKO - BTICINO GmbH
Am Silberg, 14
D - 59494 Soest
Phone : +49 2 92 13 80 00
Fax : +49 2 92 13 80 01 50
E-mail: info@seko-bticino.de
www.bticino.de

GREAT BRITAIN

LEGRAND ELECTRIC LTD
Great King Street North
Birmingham
B19 2LF
Phone: +44 1 21 51 50 51 5
Fax: +44 1 21 51 50 61 9
E-mail: legrand.sales@legrand.co.uk
www.legrand.co.uk

GREECE

HELLINIKI LEGRAND S.A.
184 A, Av. Kifissias
152 31 Athens
Phone: +30 2 10 67 97 50 0
Fax: +30 2 10 67 97 56 0
E-mail:
helliniki.legrand@legrand.com.gr
www.legrand.com.gr

IRELAND

LEGRAND IRELAND LTD
15/16 Holly Avenue
Stillorgan Ind. Park,
Stillorgan - Co Dublin
Phone: +353 12 95 44 65/67
Fax: +353 12 95 46 71
E-mail: info.dublin@legrand.ie
www.legrand.ie

NETHERLAND

LEGRAND NEDERLAND B.V.
Boseind 14
(Postbus 44 - 5280 AA Boxtel)
5281, RM Boxtel
Phone: +31 411 61 20 40
Fax: +31 411 67 70 22
E-mail:
info.bticino.nederland@bticino.com
www.bticino.com

PORTUGAL

LEGRAND ELECTRICA S.A.
Estrada de Alagoa n. 96
2775-716 Carcavelos
Phone : +351 21 45 48 80 0
Fax : +351 21 45 48 88 2
E-mail: contacto@legrand.pt
www.legrand.pt

RUSSIA

BTICINO
Prospekt Mira 26/4
129090 Moscow
Phone : +7 095 77 11 69 32
Fax : +7 095 77 16 93 3
E-mail: moscow.office@bticino.com
www.bticino.com.ru

SPAIN

BTICINO QUINTELA S.L.
C.tra C-245, Km. 3,6
E - 08850 Gavà Barcelona
Phone : +34 93 63 52 60 0
Fax : +34 93 63 52 60 1
E-mail:
bticinoquintela@bticinoquintela.com
www.bticinoquintela.es

SWITZERLAND

LEGRAND SUISSE S.A.
DIVISION BTICINO
Industriestrasse 3
5242 Birr
Phone: +41 56 464 67 67
Fax: +41 56 464 67 19
E-mail: info@legrand.ch
www.bticino.com

TURKEY

BTICINO TURKEY ELTAS AS
Sishane, Refik Saydam
Cad. no. 179
80050 Istanbul
Phone: +90 212 24 57 21 4 - 5
Fax: +90 212 24 93 99 1
E-mail: info.turkey@bticino.com
www.bticino.com

North and Central America

USA

BTICINO USA
2800 De La Cruz Blvd.
Santa Clara, CA95050
Phone: 408 486 7561
Fax : 408 988 5373

MEXICO

BTICINO DE MEXICO S.A. DE C.V.
Carretera 57 Q.ro, S.L. P. Km 22,7
Santa Rosa Jaurequi
76220 Queretaro
Phone : +52 442 238 04 00
Fax : +52 442 238 04 83
E-mail: solucionesmx@bticino.com
www.bticino.com.mx

South America

BRAZIL

GL ELETRO ELETRONICOS LTDA
Av. Joao Dias, 2319 Santo Amaro
04723-003 Sao Paulo S.P.
Phone : +55 11 56 44 24 00
Fax : +55 11 56 44 24 68

CHILE

TICINO CHILE S.A.
Av. Vicuna Mackenna 1292
Santiago
Phone : +56 2 55 051 00
Fax : +56 2 55 67 44 2
E-mail:
comercialbt.chile@bticino.com
www.bticino.cl

COLUMBIA

BTICINO DE COLOMBIA LTDA
Carrera 11 no. 86-23
Bogotá D.C.
Phone : +57 1 25 67 77 8
Fax : +57 1 25 67 77 4
E-mail : bticino@andinet.com
www.bticino.com

COSTA RICA

BTICINO COSTA RICA SA
Barreal de Heredia
PO.BOX. 6563
1000 San Jose
Phone: +506 29 85 60 0
Fax: +506 29 30 10 5
E-mail : ventas.cr@bticino.com
www.bticino.com

PERU

TICINO DEL PERU S.A.
Pasaje 160
Urbanizacion Santa Anita
Santa Anita, Lima 43
Phone : +51 1 36 23 80 0
Fax : +51 1 47 82 90 0
E-mail: bticino.peru@bticino.com
www.bticino.com

VENEZUELA

BTICINO DE VENEZUELA C.A.
Edf. Bticino, Calle Roma
Urb. Industrial Santa Cruz
Sector Los Naranjos
1220 Guarenas, Edo Miranda
Phone: + 58 2 12 36 13 33 3
Fax: +58 21 23 62 25 25
E-mail: ventas.venezuela@bticino.com
www.bticino.com.ve

Australia

LEGRAND MINITRONICS

3/107 Carnarvon Street
NSW 2128 Silverwater
Phone: + 61 2 87 48 03 33
Fax: +61 2 97 37 93 39
www.bticino.com

Asia

CHINA

LEGRAND CHINA HEAD OFFICE
30th Floor, Shanghai Oriental
Center no. 699,
Nanjing West Road, Shanghai
Phone: +86 21 52 11 00 90
Fax: +86 21 52 11 00 86
E-mail:
goulam.kessaria@legrand.com.cn
www.legrand.com.cn

CHINA

HONG KONG
LEGRAND (HK) LTD
Room 2503-2505, 25/F
Jubilee Centre Phase 2
42-46 Gloucester Road - Wanchai
Phone: +85 22 68 74 20 0
Fax: +85 22 68 74 30 0
E-mail: legrand@hkstar.com
www.bticino.com

KOREA

ANAM LEGRAND Co LTD
379 Suyoung-ri, Bongdam-eup
Hwasung-kun
445890, Kyunggi-do
Phone: +82 31 299 10 82
Fax: +82 31 293 33 81
www.bticino.com

INDONESIA

PT INTECS TEKNIKAMA INDUSTRY
JL Ciputat Raya, No.18D
Kebayoran Lama
Jakarta, Selatan 12310
Phone: +62 21 75 07 37 75
Fax: +62 21 75 14 45 9
E-mail: i-kusumo@caturyasa.com
www.bticino.com

PHILIPPINES

BTICINO PHILIPPINES
Jannov Plaza 2295 Pasong Tamo
Extension
Makati City, Metro Manila
Phone: +63 2 89 28 97 2
Fax: +63 2 81 61 30 9
E-mail: imphil@info.com.ph
www.bticino.com

SINGAPORE

LEGRAND (S) PTE LTD
15 Jalan Kilang Barat
07-05/06/07 Frontech Centre
159357
Phone: +65 68 61 22 34
Fax: +65 64 16 15 80
E-mail:
customerhub.sg@legrand.com.sg
www.bticino.com

TAIWAN

LEGRAND TAIWAN
Representative Office
3FL., N° 7-3, Section 3
Jen-Ai Road
Taipei Taiwan R.O.C.
Phone : +886 2 27 78 80 38
Fax : +886 2 27 78 80 39
E-mail: agnes.su@legrandelectric.com
www.bticino.com

THAILAND

BTICINO THAILAND LTD
10/F Ploenchit Center
2, Sukhumvit Road
10110 Bangkok
Phone: +66 2 65 69 16 26 7
Fax: +66 2 65 69 19 7
E-mail : bticino@zi-th.com
www.bticino.com

Middle East and other African Countries

BTRADING S.A.

Via G. Motta, 3, P.O. Box 226
CH - 6828 Balerna
Phone : +41 91 695 21 21
Fax : +41 91 695 21 10
E-mail: info.btrading@bticino.com
www.bticino.com

EGYPT

EMB ELECTRICAL INDUSTRIES S.A.E.
Pyramids Heights Office Park
Krm 22 Cairo, Alexandria Desert
Road, Building 9C, Giza
Phone: +20 25 36 00 00
Fax: +20 25 36 00 0
E-mail: emb@bticino.com



US Ship Supply Corporation

2220 SW 57th Avenue West Park, FL 33023

Phone: (954) 797-0655 Fax: (954) 797-0605

Web: www.usshipsupply.com

Email: info@usshipsupply.com