Niloé ™

Another timeless classic from Legrand... now even easier to install.

CATALOGUE
PAGES
INSIDE
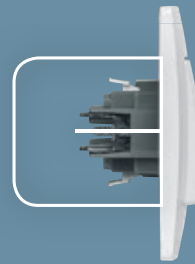
THE NILOÉ RANGE IS CHANGING...

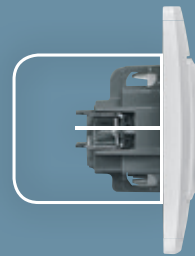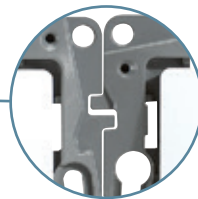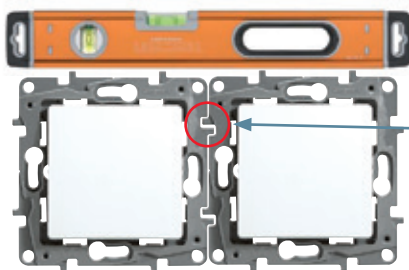## And it's even easier to install!

CONTROLS

Finishes added without the need for tools.

Mechanisms take up less space, making them easier to install and adjust in the box.

SOCKETS

MULTI-GANG

Due to the interlocking grid system, multi-gang installation is quick and easy.

Automatic terminals on the control mechanisms. Quick and easy installation. Wide release keys for easier manipulation.
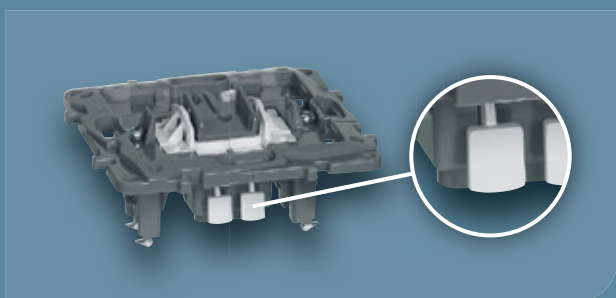
Controls can be converted to illuminated function by simply adding an LED. Light visible through translucent standard cover plates.
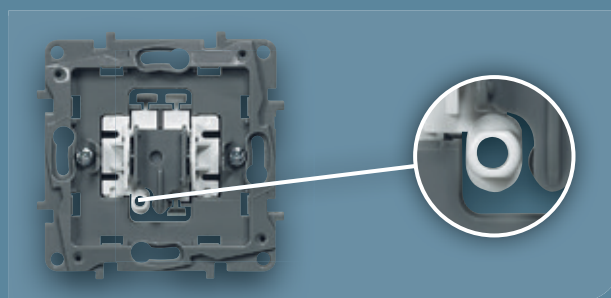
Rigid insulated plastic grid.
New claws for greater tensile resistance.

IP2X protection for totally safe installation.

Sockets ready to connect: screw terminals supplied open for quicker installation.

Safety shutter system on all sockets.

THE NILOÉ RANGE IS CHANGING...

We have an offer to suit each of your projects!

RECHARGING IS SIMPLE, EASY AND ACCESSIBLE

2P+E socket
with USB charger,
ideal for replacing an
existing socket.
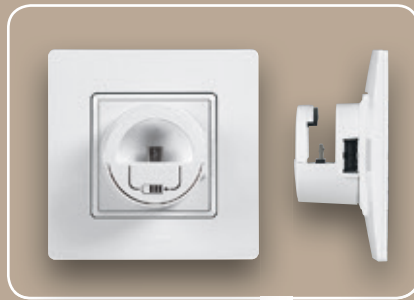
Dual charger:
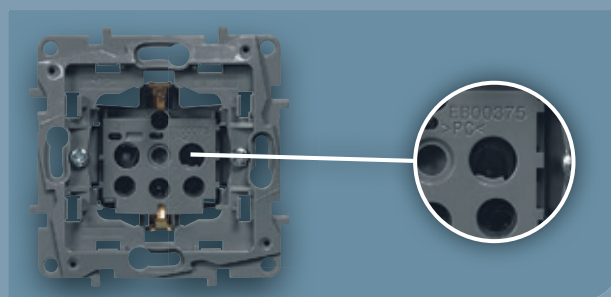1 micro USB with support and 1 USB

Dual USB charger

NOT FORGETTING....

INDIVIDUALLY-PACKED PRODUCTS

Its flowpack packaging
protects the product
throughout the delivery
process, right up until it
is attached to the wall.

PROTECTIVE COVERS
(OPTIONAL)

Perfectly integrated with the device
to protect the product from dust or
paint during fixing, or even damage
that might occur after installation.

COMPACT SOLUTIONS FOR ENHANCED FUNCTIONALITY IN LESS SPACE

Double 2P+E socket
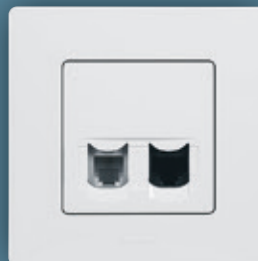
RJ 11 + RJ 45 Cat. 5e

Two-way switch + pushbutton

3-gang switch

Roller blind control

MANAGEMENT OF ALL LIGHT SOURCES RESULTS IN GREATER ENERGY SAVINGS

Dimmer

Automatic switch

A timeless range, with 10 plate colours available…

MIX AND MATCH COLOURS!

White

Ivory

Red

Aluminium

Plum

Cacao

MULTI-GANG

REVERSIBLE MULTI-GANG
Up to 5 gangs, whether mounted
vertically or horizontally

Taupe

Onyx

Dark wood

Light wood

⌐┐ legrand

Niloé™

switches, push-buttons, dimmers and accessories

🌍

| 7 645 03 | 7 645 09 | 7 645 18 | 7 645 22 | 7 645 88 |

Mechanisms supplied with cover plates and support frames in flow-pack
To be equipped with plates
Fixing with screws or claws (supplied)
Automatic or screw terminals

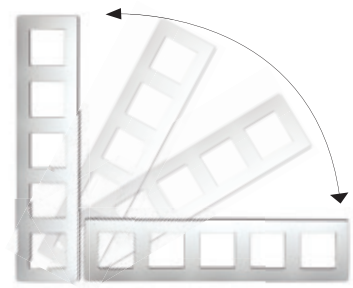| Pack	Cat.Nos	**One-way switches - 10 AX - 250 V∿**
		Can be transformed into lighting function with accessory Cat.No 7 645 21 (except for 3-gang switches and switches with single live)
		1-gang Automatic terminals
20	7 645 00	○ White
20	7 646 00	● Ivory
		2-gang Automatic terminals
20	7 645 06	○ White
20	7 646 06	● Ivory
		3-gang Screw terminals
20	7 645 03	○ White
20	7 646 03	● Ivory
		2-gang - with single live Automatic terminals
20	7 645 05	○ White
20	7 646 05	● Ivory

Pack	Cat.Nos	**Two-way switches 10 AX - 250 V∿**
		Can be transformed into lighting function with accessory Cat.No 7 645 21 (except for IP 44 switch) Automatic terminals
		1-gang
20	7 645 01	○ White
20	7 646 01	● Ivory
		2-gang
20	7 645 02	○ White
20	7 646 02	● Ivory
		1-gang IP 44
10	7 645 24	○ White
10	7 646 24	● Ivory

Pack	Cat.Nos	**Intermediate switches 10 AX - 250 V∿**
		Enable you to add a third control point in a two-way switch installation. Automatic terminals
10	7 645 04	○ White
10	7 646 04	● Ivory

Pack	Cat.Nos	**Two-way switch 10 AX + push-button 6 A - 250 V∿**
		Automatic terminals
10	7 645 09	○ White
10	7 646 09	● Ivory

Pack	Cat.Nos	**Double-pole switches - 16 A - 250 V∿**
		1-gang Automatic terminals
10	7 645 17	○ White
10	7 646 17	● Ivory

Pack	Cat.Nos	**Dismatic switches**
		Screw terminals
20	7 645 18	○ White - 15 A
20	7 646 18	● Ivory - 15 A
20	7 645 19	○ White - 20 A
20	7 646 19	● Ivory - 20 A

Pack	Cat.Nos	**Push-buttons - 6 A - 250 V∿**
		NO-NC contact push-buttons Automatic terminals Can be transformed into lighting function with accessory Cat.No 7 645 21 (except IP44 switch)
		1-gang
20	7 645 07	○ White
20	7 646 07	● Ivory
		2-gang
20	7 645 08	○ White
20	7 646 08	● Ivory
		1-gang - IP 44
20	7 645 25	○ White
20	7 646 25	● Ivory
		1-gang - illuminated Supplied with 230 V LED lamp - Cat.No 7 645 21
20	7 645 22	○ White
20	7 646 22	● Ivory

Pack	Cat.Nos	**Rotary dimmers 300 W - 2-wire**
		Allow the control and dimming of 5 to 300 W incandescent lamps and 230 V∿ halogen lamps as well as 5 to 300 V∿ ELV halogen bulbs with ferromagnetic transformer via electronic transformer Can be installed as a replacement for a traditional switch
1	7 645 88	○ White
1	7 646 88	● Ivory

Pack	Cat.Nos	**Accessories**
		LED lamp To transform single controls into illuminated ones
10	7 645 21	Universal 230 V LED lamp
10	7 645 23	12/24 V

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automatic switches

7 645 82

Mechanisms supplied with cover plates and support frames in flow-pack
To be equipped with plates
Screw terminals
Fixing with screws or claws (supplied)

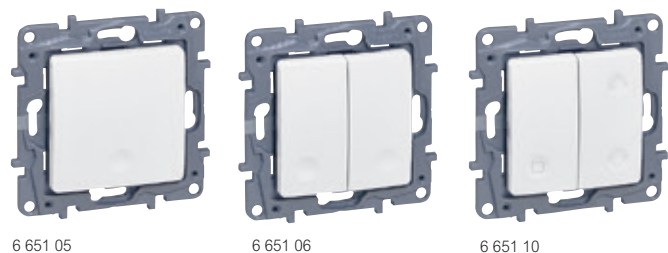| Pack	Cat.Nos	**Automatic switches**
		IR detection
		Detection field: 180°
		Detection range: 8 m
		Time delay adjustable from 10 s to 10 min
		Light level threshold adjustable from 5 to 1275 lux
		2-wire, without neutral
		Allow the control of:
		- 3 to 100 W LED and compact fluorescent lamps,
		- 3 to 250 VA LED, CFL, halogen and fluorescent tubes with ferromagnetic or electronic ballast,
		- 3 to 250 W halogen (230 V) and incandescent lamps
		If several sensors are installed on the same circuit, the minimum load changes: refer to the technical sheet
		Possibility to install up to 3 sensors in parallel
		Consumption on standby: 0.02 W
		To be used without override
1	7 645 83	○ White
1	7 646 83	● Ivory
		3-wire, with neutral
		Allow the control of:
		- 0 to 50 W LED and compact fluorescent lamps,
		- 0 to 200 VA LED, CFL and halogen lamps with ferromagnetic or electronic ballast,
		- 0 to 150 VA fluo tubes with ferromagnetic or electronic ballast
		- 0 to 400 W halogen (230 V) and incandescent lamps
		Only 1 sensor per circuit. No remote manual control with push-button
		Consumption on standby: 0.55 W
1	7 645 82	○ White
1	7 646 82	● Ivory

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## shutter controls, keycard switches and thermostats

7 645 11

Mechanisms supplied with cover plates and support frames in flow-pack
To be equipped with plates
Screw terminals
Fixing with screws or claws (supplied)

Pack	Cat.Nos	**Shutter controls**
		Switches
		3 positions (Raise / Stop / Lower) for direct motor control
10	7 645 11	○ White
10	7 646 11	● Ivory
		Push-buttons
10	7 645 12	○ White
10	7 646 12	● Ivory
		Keycard switches
		To operate the room's electrical circuits
		Turn off 30 seconds after the card is removed
		For cards of maximum 54 mm length
		Supplied without claws, add accessory Cat.No 6 650 99
1	6 647 93	○ White
1	6 648 93	● Ivory
		Thermostats 230 V
		For direct radiant ceiling panels and underfloor heating
		Adjustment range: from 7 to 30 °C
		Adjustment precision: + 0.5 °C
		Cut-off power: 8 A max.
		Can be associated with a clock for comfort and Eco mode
1	7 645 87	○ White
1	7 646 87	● Ivory

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radio switches and roller blind controls

6 651 05   6 651 06   6 651 10

Mechanisms equipped with cover plates and support frames
To be equipped with plates

Pack	Cat.Nos	Radio switches
		Centralized control unit - wireless transmitter switches
		Surface-mounting or within a flush-mounting box
		No wiring required
		Powered by 3V CR 2032 lithium batteries, supplied
1	6 651 05	○ White - single switch
		Enables you:
		- to control one Radio receiver switch or a group of Radio receiver switches
		- to do a two-way switch without wiring
1	6 651 06	○ White - 2-gang switch
		Enables you to control two Radio receiver switches or two groups of Radio receiver switches
1	0 883 06	**Micromodule receiver switch 300 W**
		Enables you:
		- to improve an existing installation by adding control points without damage to the walls
		- to control LED, fluocompact, halogen and incandescent lamps as well as electronic transformers
		To be installed near the lamp with neutral, with Cat.No 0 306 54 (plug-in ceiling rose), for example
		Must be mounted with wireless switches Cat.Nos 6 651 05/06
		Phase/neutral power supply

Pack	Cat.Nos	Radio roller blind controls
		Centralized control unit - wireless transmitter switch
1	6 651 10	○ White
		Allows you to raise/lower/stop one or a group of individual radio receiver roller blind switches
		Individual unit - receiver switch
1	6 651 12	○ White
		For direct motor control (4-wire)
		Phase/neutral power supply
		Preset function integrated into the switch

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2P and German standard socket outlets

7 645 29   7 645 44   7 645 30

Mechanisms supplied with cover plates and support frames
To be equipped with plates
Fixing with screws or claws (supplied)

Pack	Cat.Nos	2P socket outlets with safety shutters
		Screw terminals
20	7 645 38	○ White
20	7 646 38	● Ivory

Pack	Cat.Nos	German standard socket outlets with safety shutters
		2P+E - screw terminals
20	7 645 29	○ White
20	7 646 29	● Ivory
		2P+E with flap cover - screw terminals
10	7 645 32	○ White
10	7 646 32	● Ivory
		2P+E with flap cover - IP 44 - automatic terminals
		To be equipped with standard plates
10	7 645 47	○ White
10	7 646 47	● Ivory
		2 x 2P+E - compact - screw terminals
		Supplied complete with plate
		Installation in 1 gang flush-mounting box
		Allow you to replace 1 socket with 2 sockets without changing the flush-mounting box
		Screw-mounting
10	7 645 44	○ White
10	7 646 44	● Ivory
		2P+E and USB charger socket - compact-automatic terminals
		To replace a 1-gang socket by a 2P+E/USB charger socket without changing the existing wiring nor the flush-mounting box
		2P+E 16 A, USB 1000 mA
		For quickly charging tablets, smartphones, MP3 players and watches
		Free up a socket recess
		Consumption in passive mode: < 0.1 W Class II SELV
		Supplied complete with plate
		Installation in 1 gang flush-mounting box
		Technical characteristics p. 459
1	7 645 30	○ White
1	7 646 30	● Ivory

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French standard socket outlets and accessories

🌍

7 645 27   7 645 41   7 645 28

Mechanisms supplied with cover plates and support frames
To be equipped with plates
Fixing with screws or claws (supplied)

Pack	Cat.Nos	
		French standard socket outlets with safety shutters
		2P+E - screw terminals
20	7 645 27	○ White
20	7 646 27	● Ivory
		2P+E with flap cover - IP 44 - automatic terminals
		To be equipped with standard plates
10	7 645 48	○ White
10	7 646 48	● Ivory
		2 x 2P+E compact - screw terminals
		Supplied complete with plate
		Installation in 1 gang flush-mounting box
		Allow you to replace 1 socket with 2 sockets without changing the flush-mounting box
10	7 645 41	○ White
10	7 646 41	● Ivory
		2P+E and USB charger - compact - screw terminals
		To replace a 1-gang socket by a 2P+E/USB charger socket without changing the existing wiring nor the flush-mounting box
		2P+E 16 A, USB 1000 mA
		For quickly charging tablets, smartphones, MP3 players and watches
		Free up a socket recess
		Consumption in passive mode: < 0.1 W Class II SELV
		Supplied with plate
		Installation in 1 gang flush-mounting box
1	7 645 28	○ White
1	7 646 28	● Ivory
		Accessories
		Cable outlets
		Allow multi-gang installation
20	7 645 46	○ White
20	7 646 46	● Ivory
		Blanking plates
20	7 645 45	○ White
20	7 646 45	● Ivory
		Mosaic adaptor
1	6 651 95	○ White
		Accepts 2-module mechanisms
		Can be equipped with claws Cat No 6 650 99

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television passthrough and terminal sockets

🌍

7 645 57   7 645 64

Mechanisms supplied with cover plates and support frames
To be equipped with plates
Fixing with screws or claws (supplied)
Installation in case of maintenance. An amplifier and a line balancing are recommended
TV: male connector (Ø9.5 mm)
R: female connector (Ø9.5 mm)
SAT: "F type" connector
Recommended coaxial cable: 17 VATC
Visual checking of the connection
TV: 5-68 / 120-862 MHz
R: 87.5-108 MHz
SAT: 950-2400 MHz

Pack	Cat.Nos	
		Passthrough sockets
		Attenuation: -14 dB
		TV (male)
10	7 645 52	○ White
10	7 646 52	● Ivory
		TV-SAT
10	7 645 57	○ White
10	7 646 57	● Ivory
		TV-R-SAT
10	7 645 64	○ White
10	7 646 64	● Ivory
		Terminal sockets
		1 input with 1 resistance cap socket
		Attenuation: -10 dB
		TV (male)
10	7 645 55	○ White
10	7 646 55	● Ivory
		TV-SAT
10	7 645 58	○ White
10	7 646 58	● Ivory
		TV-R-SAT
10	7 645 65	○ White
10	7 646 65	● Ivory
		TV-R-SAT cover plate
		33 mm fixing centers for local adaptation
10	7 645 67	○ White
10	7 646 67	● Ivory

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televison star sockets

7 645 59   7 645 63   7 645 66

Mechanisms supplied with cover plates and support frames
To be equipped with plates
Fixing with screws or claws (supplied)
For DVBT, Cablecast and satellite installation
UHD TV compatible
Class A shielded star sockets LTE Ready (4G protected)
Recommended coaxial cable: 17 VATC
Star cabling (1 socket = 1 cable to antenna, splitter or multiswitch)
Visual checking of the connection
Meet EN 50083-4 and EN 50083-2 European directive
Low attenuation: < 1 dB
TV: male connector (Ø9.5 mm)
R: female connector (Ø9.5 mm)
SAT: "F type" connector
TV: 5-68 / 120-862 MHz
R: 87.5-108 MHz
SAT: 950-2400 MHz

Pack	Cat.Nos	Multiple TV star sockets
		TV-SAT Low attenuation: 1 dB
10	7 645 59	○ White
10	7 646 59	● Ivory
		TV-R-SAT Low attenuation: 1.5 dB
10	7 645 63	○ White
10	7 646 63	● Ivory
		TV-R-SAT-SAT Low attenuation: 1.5 dB In 1: TV-R-SAT 1 / In 2: SAT 2
10	7 645 66	○ White
10	7 646 66	● Ivory

Pack	Cat.Nos	Single TV star sockets
		Low attenuation: 1 dB
		TV - 9.5 male
10	7 645 51	○ White
10	7 646 51	● Ivory
		TV - "F type"
10	7 645 50	○ White
10	7 646 50	● Ivory
		TV "F-F" feedthrough Supplied with one F plug
10	7 645 49	○ White
10	7 646 49	● Ivory

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televison star sockets

■ **High performance**

Visualization of connection
Cable holding > 12 kg
Central connection to optimize cable bend radius

■ **Low attenuation (< 1 dB in DVBT and Satellite band)**

Above requirements of EN 50083-4 standard
Adapted to new UHD TV (Ultra High Definition)
Reduce the needs for amplification

■ **Coupling attenuation**

IN→SAT

SAT transmission

m1 : 862 MHz -20,33 dB
m2 : 950 MHz -2,398 dB
m3 : 1750 MHz -0,8193 dB
m4 : 2400 MHz -1,02 dB

IN→TV

TV transmission

m1 : 70 MHz -0,1658 dB
m2 : 125 MHz -0,1512 dB
m3 : 450 MHz -0,3877 dB
m4 : 882 MHz -2,213 dB
m5 : 950 MHz -32,62 dB

■ **Return loss input**

EN50083-4 Standard
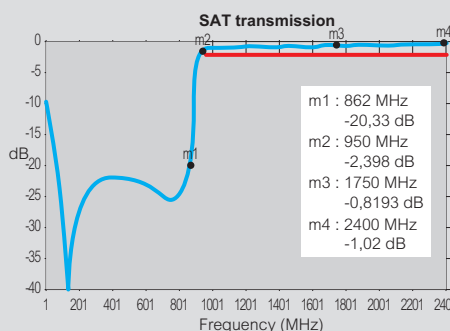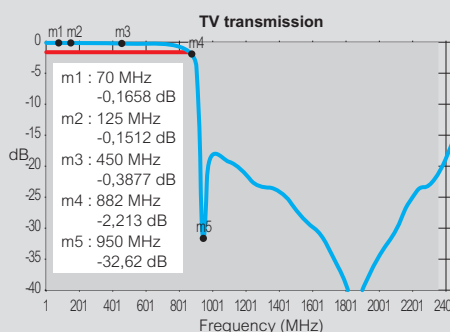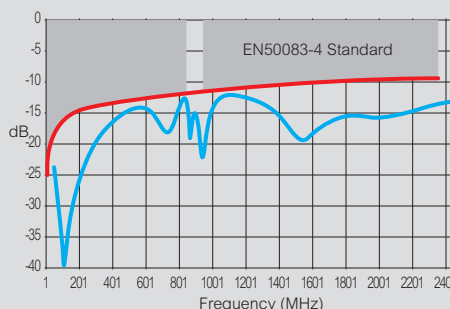
■ **Certification**

Class A, LTE protected sockets
LTE protection is required to prevent interference of
new signals used by mobile phones (3G/4G/5G signals)
Unwanted signals could cause pixelation, picture break-up and sound disturbance
Legrand uses the PKM Laboratory to certify its TV
Class A sockets

Require the certificate of conformity for
Class A shielded TV sockets

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telephone, data and loudspeaker sockets


7 645 68   7 645 70   7 645 73

Mechanisms supplied with cover plates and support frames
To be equipped with plates (p. 461)
Fixing with screws or claws (supplied)

Pack	Cat.Nos	
		Telephone sockets
		RJ 11 sockets
10	7 645 69	○ White
10	7 646 69	● Ivory
		T-shaped telephone sockets
10	7 645 68	○ White
10	7 646 68	● Ivory
		RJ 11 + RJ 45 Cat.5 UTP sockets
10	7 645 70	○ White
10	7 646 70	● Ivory
		RJ 11 + RJ 45 Cat.6 UTP socket
10	7 645 72	○ White
		Data sockets
		RJ 45 Cat.5 UTP sockets
		360° shielded sockets
10	7 645 71	○ White
10	7 646 71	● Ivory
		RJ 45 Cat.6 UTP socket
10	7 645 73	○ White - 9-contact
		2 x RJ 45 Cat.6 UTP socket
10	7 645 74	○ White - 9-contact
		Double loudspeaker socket
10	7 645 81	○ White

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USB charging sockets
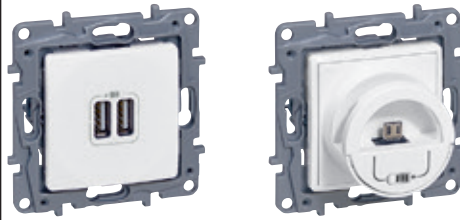
7 645 94   7 645 96

Mechanisms supplied with support frame and cover plate
Fixing with screws or claws (supplied)
100-240 VA 50-60 Hz, 5 V - 2400 mA (1500 mA until 1st July 2016)
Conform to IEC 62684-2011-01 standard
For quickly charging mobile phones, tablet PCs, smartphones, MP3 and MP4 players
Free up a socket recess
Consumption in passive mode: < 0.1 W Class II SELV
Conform to the EEC directive on harmonisation of the charging standard for portable terminals and the harmonisation of mobile phones chargers
For installation in flush-mounting box depth 40 mm minimum
Supplied cordless

Pack	Cat.Nos	
		Double USB charging sockets
1	7 645 94	○ White
1	7 646 94	● Ivory
		Micro USB charging docks
		Cordless micro USB docking station for charging smartphones
		Screen remains visible during charging
		Equipped with:
		- a lateral USB port for an additional device
		- a smartphone clamp-holder with a non-slip and anti-scratch finish coat
		Possible to charge an iPhone by using the micro USB Lightning adaptor
		iPhone is a registered Apple brand
		The accessory is not supplied with the product
10	7 645 96	○ White
10	7 646 96	● Ivory

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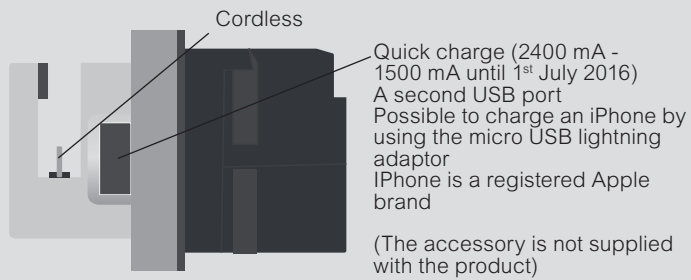**USB charging docks**

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USB charging sockets

■ **Micro USB charging dock - 2400 mA**
(1500 mA until 1st July 2016)
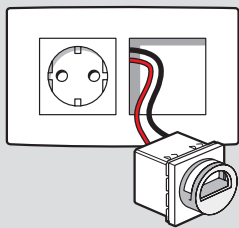

Installed beside the bed, the micro USB charging dock powers the mobile during the night without cord
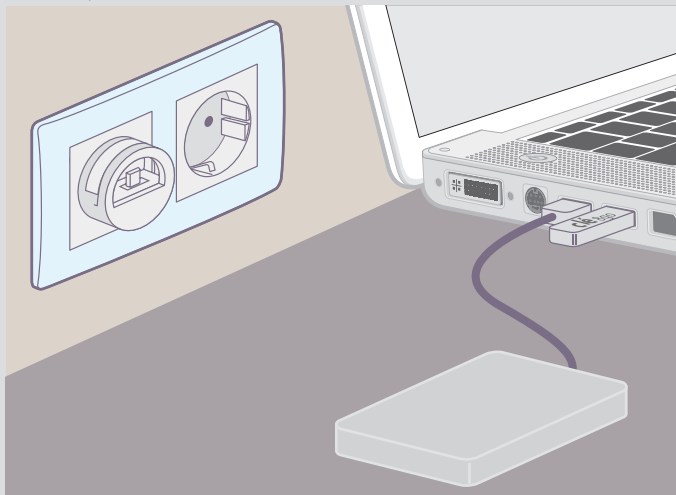
Characteristics

Cordless

Quick charge (2400 mA - 1500 mA until 1st July 2016)
A second USB port
Possible to charge an iPhone by using the micro USB lightning adaptor
IPhone is a registered Apple brand

(The accessory is not supplied with the product)

Installation

By simple tap-off on 2P+E socket
Wiring 1.5 or 2.5 mm^2
Class II product which does not require earthing
Releases a 2P+E socket recess

Dock version must be installed at the same height as the switches or on work plans
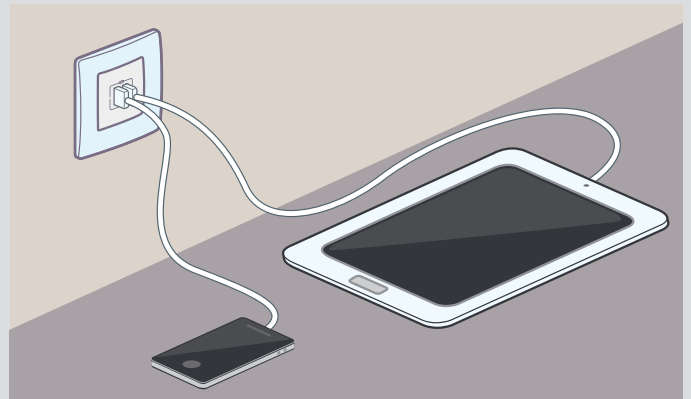

■ **Universal proximity socket**
Ideal for everyday's needs

Installed beside the bed, the USB charger powers your mobile during the night, ensuring the proper functioning of the alarm dock function
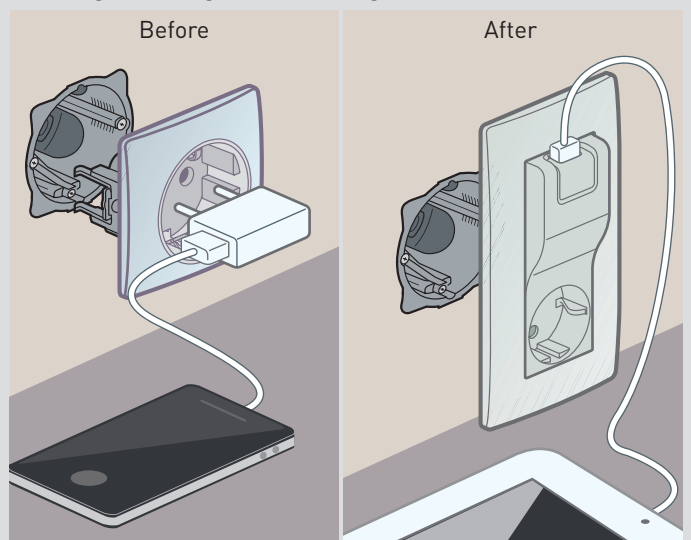
■ **Universal duo USB charging socket - 2400 mA**
(1500 mA until 1st July 2016)
Can quickly charge all mobiles in the family

■ **2P+E / USB charging socket - 1000 mA**

Ideal for extending an installation
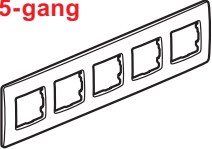Replaces a 2P+T socket (screw-mounting) without neither changing the wiring nor adding a flush-mounting box

Before | After

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plates

6 650 11

6 650 21

1-gang

Pack	Cat.Nos	
20	6 650 01	○ White
20	6 650 11	● Ivory
10	6 650 31	● Taupe
10	6 650 21	● Red
10	3 970 81	● Plum
10	3 970 31	● Bronze
10	3 970 51	● Onyx
10	3 970 41	● Aluminium
10	3 970 71	● Cacao
10	3 970 91	○ Dark wood
10	3 970 95	○ Light wood

2-gang

Pack	Cat.Nos	
10	6 650 02	○ White
10	6 650 12	● Ivory
10	6 650 32	● Taupe
10	6 650 22	● Red
10	3 970 82	● Plum
10	3 970 32	● Bronze
10	3 970 52	● Onyx
10	3 970 42	● Aluminium
10	3 970 72	● Cacao
10	3 970 92	○ Dark wood
10	3 970 96	○ Light wood

3-gang

Pack	Cat.Nos	
5	6 650 03	○ White
5	6 650 13	● Ivory
5	6 650 33	● Taupe
5	6 650 23	● Red
10	3 970 83	● Plum
10	3 970 33	● Bronze
10	3 970 53	● Onyx
10	3 970 43	● Aluminium
10	3 970 73	● Cacao
10	3 970 93	○ Dark wood
10	3 970 97	○ Light wood

4-gang

Pack	Cat.Nos	
1	6 650 04	○ White
1	6 650 14	● Ivory
1	6 650 34	● Taupe
1	6 650 24	● Red

5-gang

Pack	Cat.Nos	
1	6 650 05	○ White
1	6 650 15	● Ivory
1	6 650 35	● Taupe
1	6 650 25	● Red

Niloé™

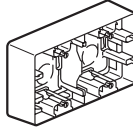**surface-mounting boxes, protection cover and special plates**
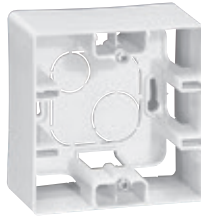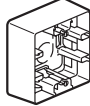
6 647 98

6 650 00

6 650 06

Surface-mounting boxes

Can be used horizontally or vertically
DL PLUS input 20 x 15.5 mm, 32 x 12.5 mm
40 x 20 mm and Ø20 tube

1-gang
Dimensions: 88.5 x 88.5 mm - height 40 mm

Pack	Cat.Nos	
10	6 647 98	○ White
10	6 648 98	● Ivory

2-gang
Dimensions: 159.5 x 88.5 mm - height 40 mm

Pack	Cat.Nos	
5	6 647 99	○ White
5	6 648 99	● Ivory

Protection cover

Pack	Cat.Nos	
100	6 650 98	To be clipped onto standard mechanisms You can bend or open it so as to access the mechanism

Special plates

1-gang

IP 44 plates
For IP 44 / IK 07 protection of Niloé mechanisms
For exceptions: see the technical data sheet
Cannot be surface mounted

Pack	Cat.Nos	
10	6 650 00	○ White
10	6 650 10	● Ivory

Plates with label-holder

Pack	Cat.Nos	
10	6 650 06	○ White
10	6 650 16	● Ivory

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