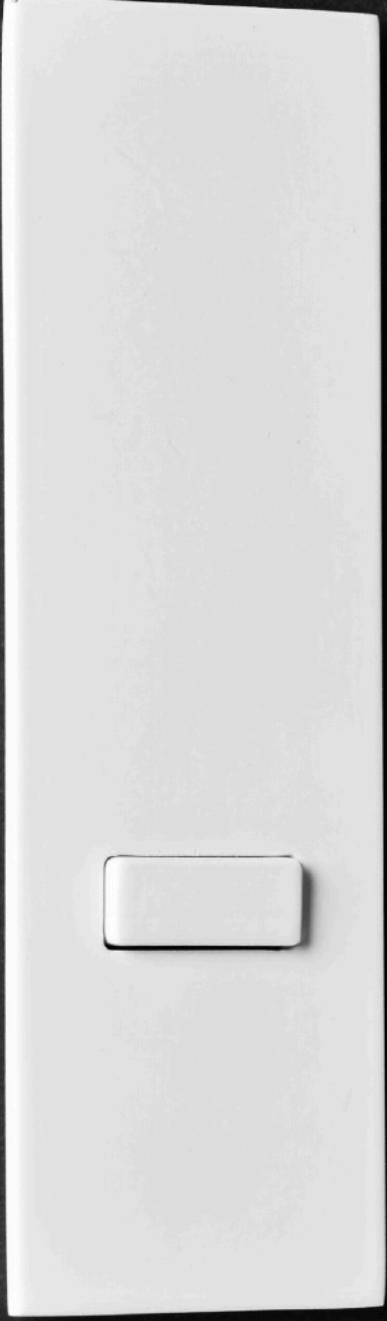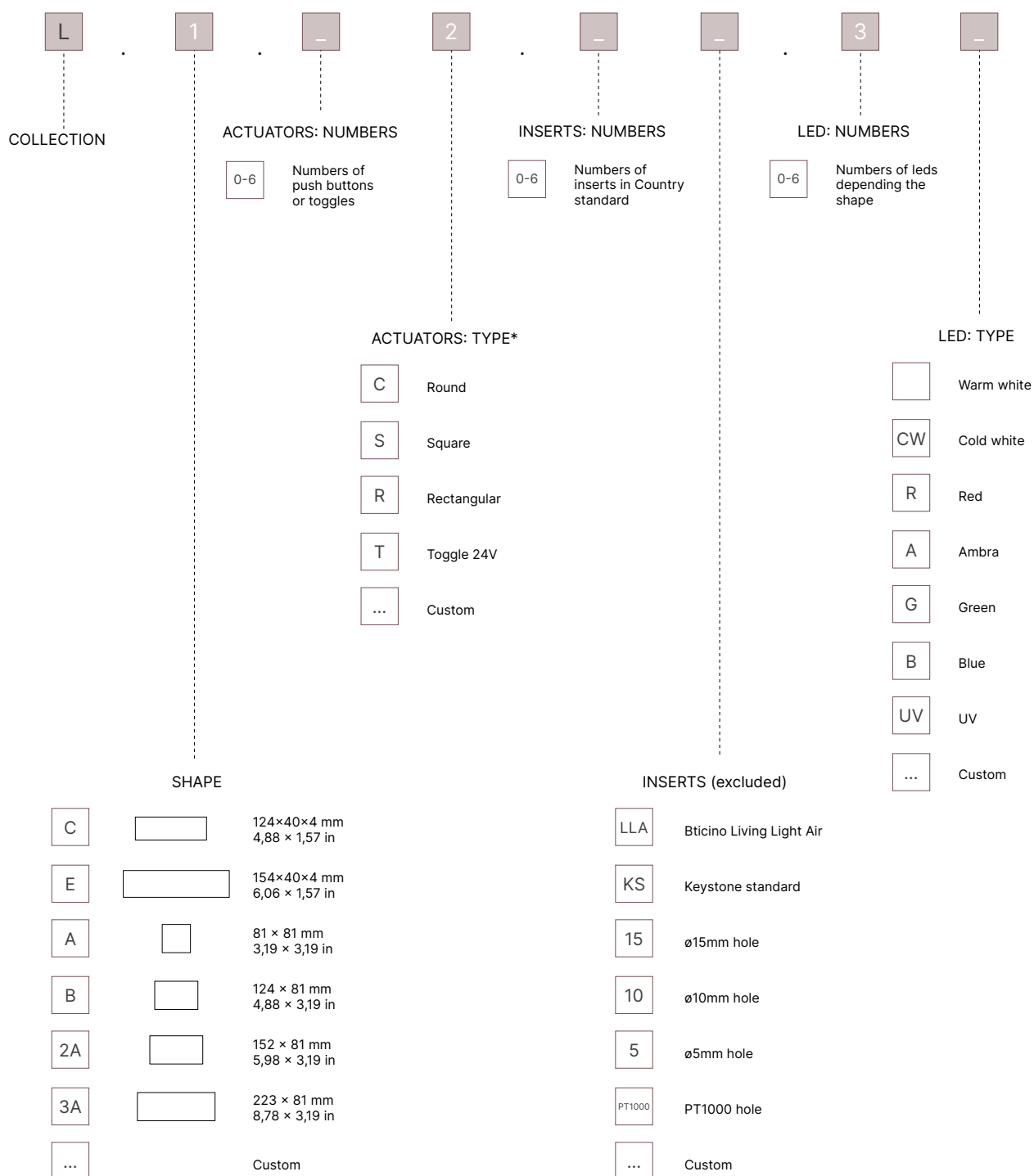PLH

datasheet
PLH SLIM
rev. 1.0_01/05/2022

Original and elegant in design, only 4 mm thick, the Slim cover plates give the environment a touch of refined decorative sobriety.
Both vertical and horizontal installation are suggested, unusual, asymmetrical, aesthetically appealing.

L . 1 . _ 2 . _ _ . 3 _

COLLECTION

ACTUATORS: NUMBERS

| 0-6 | Numbers of push buttons or toggles |

INSERTS: NUMBERS

| 0-6 | Numbers of inserts in Country standard |

LED: NUMBERS

| 0-6 | Numbers of leds depending the shape |

ACTUATORS: TYPE*

C	Round
S	Square
R	Rectangular
T	Toggle 24V
...	Custom

LED: TYPE

	Warm white
CW	Cold white
R	Red
A	Ambra
G	Green
B	Blue
UV	UV
...	Custom

SHAPE

C		124×40×4 mm 4,88 × 1,57 in
E		154×40×4 mm 6,06 × 1,57 in
A		81 × 81 mm 3,19 × 3,19 in
B		124 × 81 mm 4,88 × 3,19 in
2A		152 × 81 mm 5,98 × 3,19 in
3A		223 × 81 mm 8,78 × 3,19 in
...		Custom

INSERTS (excluded)

LLA	Bticino Living Light Air
KS	Keystone standard
15	ø15mm hole
10	ø10mm hole
5	ø5mm hole
PT1000	PT1000 hole
...	Custom

* When using toggles indicate the way of orientation and for main tension the kind (switch, 2 way switch or intermediate switch).
Contact PLH® for different types of toggles.

PLH

DESCRIPTION
Keypad in solid metal material (6082 aluminum alloy, brass) machined by CNC machine, from a single sheet, 10mm thickness (8mm + 2mm of shadow gap), in round, square or rectangular format for main voltage and low voltage control devices and standard inserts, for **indoor use only**

ENVIROMENT
Environment specification
→ Ambient Operating Temperature: 0-40 °C (32-104 °F)
→ Relative Humidity: less than 90%, non-condensing

SHAPES OF THE KEYPADS AND WALLBOXES
The keypads are designed to be used for commercial and standard wallboxes following the bottom specifications

1

Code	Shape	Dim.	Single box	Eu standard	Notes
C		124×40×4 mm 4,88 × 1,57 in			With specific metal adapter
E		154×40×4 mm 6,06 × 1,57 in			With specific metal adapter
A		81 × 81 mm 3,19 × 3,19 in			Round or square wallboxes with screws 60mm installation opening
B		124 × 81 mm 4,88 × 3,19 in			503E Italian standard or USA 1-GANG JBox
2A		152 × 81 mm 5,98 × 3,19 in			504E Italian standard or 2 round/square wallboxes joined (71 mm installation
3A		223 × 81 mm 8,78 × 3,19 in			506L Italian standard or 3 round/square wallboxes joined (2×71 mm installation

MATERIALS, TREATMENTS, NUANCE

Aluminium (6082 alloy)

G0021 Ⓐ	F0019 Ⓐ	F0007 Ⓐ	F0001 Ⓐ	F0090 Ⓐ	F0130 Ⓐ	F0022 Ⓓ	F0024 Ⓓ
Tumbled not protected	Anodized brushed silver	Anodized brushed black	Anodized brushed inox	Anodized brushed bronze	Anodized brushed dark grey	Sputtering Metal Bronze not prot.	Sputtering Metal Zinc not protected

F0003 Ⓐ	F0491 Ⓑ	F0501 Ⓑ	F0511 Ⓑ	F0509 Ⓑ	F0503 Ⓑ	F0510 Ⓑ
Painted Matte RAL 9003	Painted Cerakote® Black	Painted Cerakote® Gun Metal	Painted Cerakote® Silver	Painted Cerakote® Rose gold	Painted Cerakote® Light Gold	Painted Cerakote® Dark Grey

Brass

G0063 Ⓒ	F0013 Ⓒ	F0005 Ⓒ	F0002 Ⓓ	F0014 Ⓓ
Tumbled not protected	Brushed protected	Polished Chrome	DeCastelli Delabre' F2	DeCastelli Delabre' Striato G7

2

C **S**

R

ACTUATORS
Electrical and mechanical specification
- → Push-Button type: SMD Tactile switch MOM - OFF
- → Rated current / Rated voltage: 20mA - 24V DC (*)
- → Withstanding voltage (1 min): 250V (AC)
- → Actuator and frame flammability rating: UL94 V-0
- → Operation force: 260 g
- → Electrical life: 500.000 cycles
- → Stroke: 0,25 mm
- → Terminals: Pitch connector / Plug with wires 24AWG

T

- → Push-Button type: Miniature toggle switch MOM - OFF - MOM
- → Rated current / Rated voltage: 4A - 30V DC
- → Insulation resistance: 1.000 MΩ min. at 500V (DC)
- → Case flammability rating: UL94 V-0
- → Paddle flammability rating: UL94 HB
- → Electrical life (full load): 50.000 cycles
- → Mechanical life: 100.000 cycles
- → Terminals: 150 mm precutted wires 18÷19 AWG

Regulatory Compliance
The PCB included in the MakeUp keypads has been tested for Electromagnetic compatibility (EMC) in conformity with the essential requirements of the EN61000-6-2 (2016) - EN61000-6-3 (2007) +A1 (2011).
PLH Products must be installed according to the specifications, and in extra low tension systems. For this reason all PLH products are not UL LISTED and do not fall under 2006/95/EC Directive.
The normally open push buttons are designed to be installed only by DC safety transformers with maximum 24V and DO NOT directly control the load. Do not connect high-voltage power to low-voltage terminals. Improper wiring can result in personal injury or damage to the control or to other equipment.

Moreover all PLH components must be installed as described in the technical specification on equipment manufactured in compliance with the regulations, according to the latest safety rules, using certified materials and suitable to the characteristics of the environment and pose.
Installation and verification of compliance are not PLH responsibility.

3

LED
Electrical and mechanical specification
- → Feedback led (**): 0,5 ≤ I ≤ 5 mA (***)
- → Positional Led (**) : 4÷12 mA / 12 ÷ 30 V (DC)
- → Terminals: Pitch connector / Plug with wires 24AWG

(*) Inductive load ARE NOT ALLOWED
(**) Multiples led are with the common connected to - (minus polarity)
(***) without any limitation of the current. Limitation need to be a part of the interface connect to our led

www.plhitalia.com