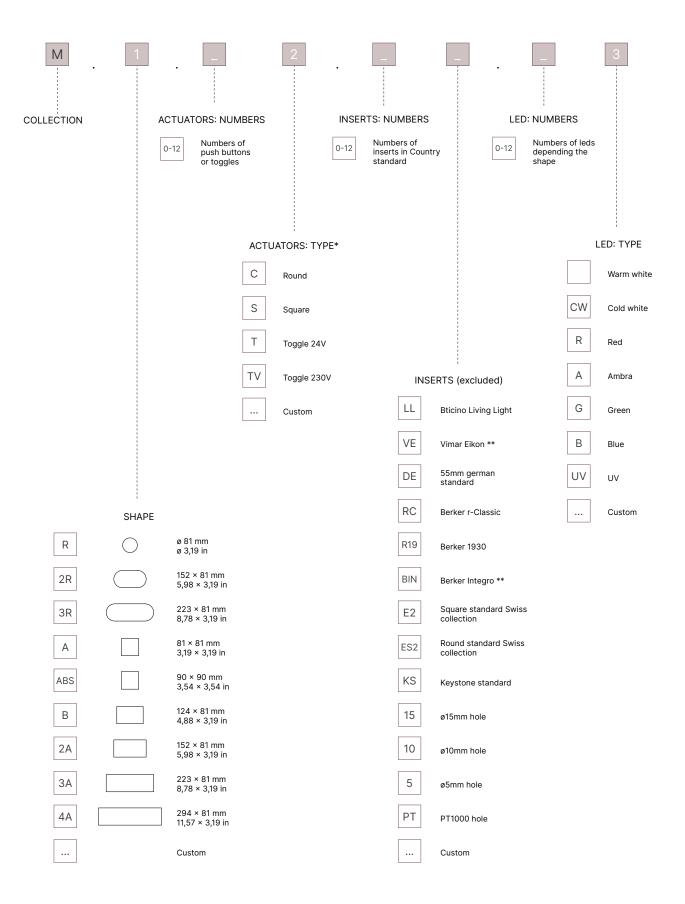




MakeUp does not disappear: it wants to be seen.

The MakeUp collection has been designed to emerge within the decorative project of the house and beyond, qualifying itself as an element for its enhancement.





(*) 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.

(**) on request

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: → Relative Humidity:

0-40 °C (32-104 °F) 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
	R	\bigcirc	ø 81 mm ø 3,19 in		Ó	Round wallboxes with screws 60mm installation opening
	2R		152 × 81 mm 5,98 × 3,19 in			2 round wallboxes joined (71 mm installation opening)
	ЗR		223 × 81 mm 8,78 × 3,19 in		000	3 round wallboxes joined (2×71 mm installation opening)
	А		81 × 81 mm 3,19 × 3,19 in	0	\bigcirc	Round or square wallboxes with screws 60mm installation opening
	ABS		90 × 90 mm 3,54 × 3,54 in			British standard or Swiss standard wallboxes with screws
	В		124 × 81 mm 4,88 × 3,19 in	00		503E Italian standard or USA 1-GANG JBox
	2A		152 × 81 mm 5,98 × 3,19 in	00	\odot	504E Italian standard or 2 round/square wallboxes joined (71 mm installation
	ЗA		223 × 81 mm 8,78 × 3,19 in	00	$\bigcirc \bigcirc \bigcirc \bigcirc$	506L Italian standard or 3 round/square wallboxes joined (2×71 mm installation
	4A		294 × 81 mm 11,57 × 3,19 in		0000	4 round/square wallboxes joined (3×71 mm installation opening)

MATERIALS, TREATMENTS, NUANCE



Tumbled not protected

F0013 (C)

F0005 © Polished Chrome Brushed protected

F0002 D DeCastelli Delabre' F2

F0014 D DeCastelli Delabre' Striato G7

F0022 (D)



F0510 (B)

Painted Cerakote® Dark Grey

F0024 (D)

Sputtering Metal Zinc not protected



2	ACTU	ATORS						
	Electr	rical and mechanical specification						
C S	\rightarrow	Push-Button type:	SMD Tactile switch MOM - OFF					
	\rightarrow	Rated current / Rated voltage: Withstanding voltage (1 min):	20mA - 24V DC (*) 250V (AC)					
	\rightarrow \rightarrow	Actuator and frame flammability rating:	UL94 V-0					
	\rightarrow	Operation force:	260 g					
	$\stackrel{\prime}{\rightarrow}$	Electrical life:	500.000 cycles					
	\rightarrow	Stroke:	0,25 mm					
	\rightarrow	Terminals:	SMD terminal block 24÷18AWG					
Т	\rightarrow	Push-Button type:	Miniature toggle switch MOM - OFF - MOM					
	\rightarrow	Rated current / Rated voltage:	4A - 30V DC					
	\rightarrow	Insulation resistance:	1.000 MΩ min. at 500V (DC)					
	\rightarrow	Case flammability rating: Paddle flammability rating:	UL94 V-0 UL94 HB					
	\rightarrow \rightarrow	Electrical life (full load):	50.000 cycles					
	\rightarrow	Mechanical life:	100.000 cycles					
	\rightarrow	Terminals:	150 mm precutted wires 18÷19 AWG					
Tv	\rightarrow	Туре:	S → Switch DPDT - Pattern 1					
			$2 \rightarrow 2$ way Switch DPDT - Pattern 6					
			$I \rightarrow$ Intermediate Switch DPDT - Pattern 7					
		Datad aurrant / Datad valtage	P → Push Button (MOM - OFF - MOM) SPDT - Pattern 4					
	\rightarrow \rightarrow	Rated current / Rated voltage: Withstanding voltage (1 min):	10A - 240V AC 1.500V (AC)					
	\rightarrow	Insulation resistance:	200 MΩ min. at 500V (AC)					
	\rightarrow	Contact resistance:	$1 \text{ A } 20 \text{ m}\Omega \text{ max } 2\text{-}4\text{V} (\text{DC})$					
	\rightarrow	Electrical life (full load):	10.000 cycles make-and-break cycles					
	\rightarrow	Mechanical life:	10.000 cycles					
	\rightarrow	Terminals:	50 mm precutted wires 15 AWG with splicing connectors					
	Dogul	atory Compliance						
C S	Regulatory Compliance The PCB included in the MakeUp keypads has been tested for Electromagnetic compatibility (EMC) in conformity							
C S	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							
Т	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.						
	winning can result in personal injury of damage to the control of to other equipment.							
	<u> </u>							



Regulatory Compliance

The keypad using the components with the pattern number 1, 6, 7 o 4 and all the combinations for the Model and Variants indicated in the declaration of conformity attachment, are in conformity with the essential requirements of the IEC 60669-1:1998 (Third Edition) + A1:1999 + A2:2006. The Notified Body IMQ S.p.A. performed all the test and produced the Test Report Reference No MI20-0048284-01.

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.



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LED **Electrical and mechanical specification**

- Feedback led (**):
- \rightarrow Positional Led (**): Terminals:

 $0,5 \le 1 \le 5 \text{ mA}$ (***) 10 mA ≤ 30 V (DC) SMD terminal block 24÷18AWG

^(*) 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

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