

Tactile pushbutton switches with large actuator





Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088 <u>ermec@ermec.com</u> <u>www.ermec.com</u>



Ø 35 mm actuator

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Distinctive features and applications

Common features

- Large ergonomic actuator (Ø 35 mm)
- Tactile feedback
- Low behind-panel depth (21 mm max.)
- Stylish design
- Long life

This series has been developed on a modular base in order to fit the exact needs of technicians and end-users.

Installation options

The LPI series has a number of features to ensure easy installation:

- Front or rear mounting
- With or without sealing
- 2 separate circuits for NO/NC 5A version
- Terminal block connector for 0,1A NO version
- 3 different LED voltages: 6V, 12V, 24V
- Integrated LED resistor

Aesthetic options

- Ring or dot illumination
- Wide range of LED colours
- Wide range of bezel colours
- Many different actuator types and colours

Applications

Because of its large actuator, this product is suited to all indoor applications where the pushbutton needs to be located quickly (access control, call information, museums, exhibitions). This product is also ideal for applications where the end-user uses gloves.

This product meets the requirements of EN81-70 and is ideal for use in all types of indoor lifts.



Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088 info@ermec.com www.ermec.com ERMEC, S.L. MADRID C/ Sagasta, 8, 1^a planta E-28004 Madrid (Spain) PORTUGAL portugal@ermec.com BILBAO bilbao@ermec.com

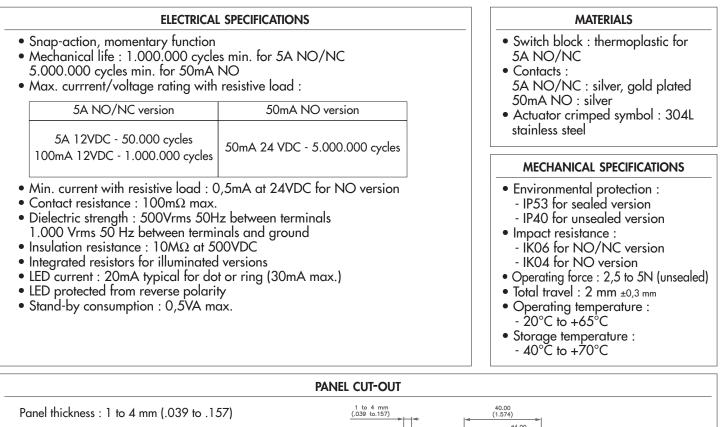
Dimensions : First dimensions are in mm while inches are shown as bracketed numbers. **Tolerance** : The general tolerance for dimensions in this brochure is $\pm 0,3$ (.012). Overall dimension tolerance is $\pm 0,5$ (.020). Dimensions, specifications and data shown in this brochure are subject to change without notice.

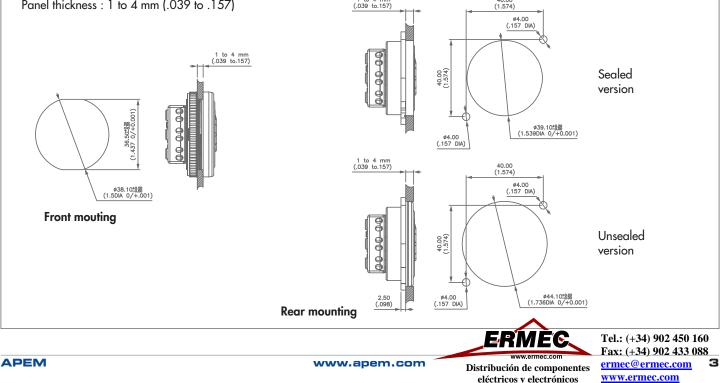
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Specifications



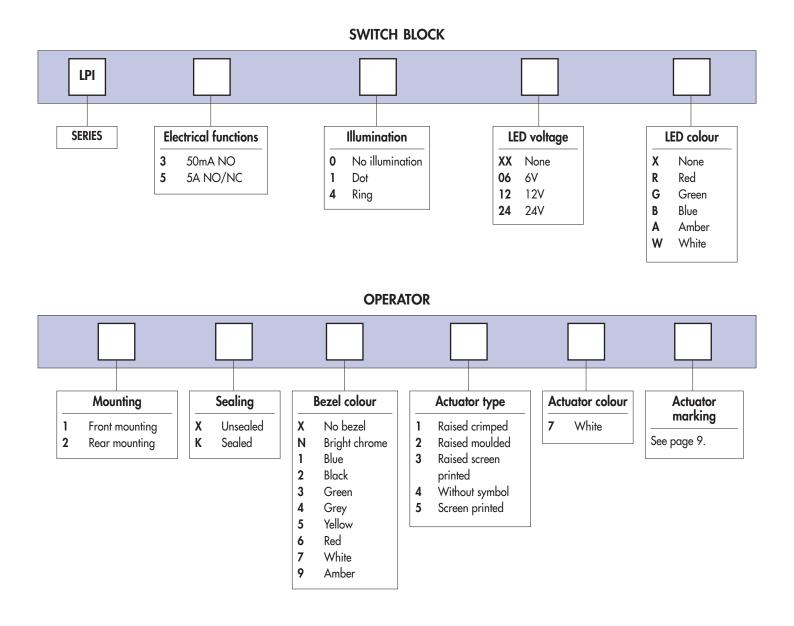
- Front or rear mounting
- Illuminated or non-illuminated
- □ Flexibility of marking
- Designed to meet the requirements of EN81-70





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Overview



ABOUT THIS SERIES

On the following pages, you will find successively switch block order numbers and operator order numbers.



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NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

Packaging unit : 15 pieces for front mounting versions - 20 pieces for rear mounting versions.



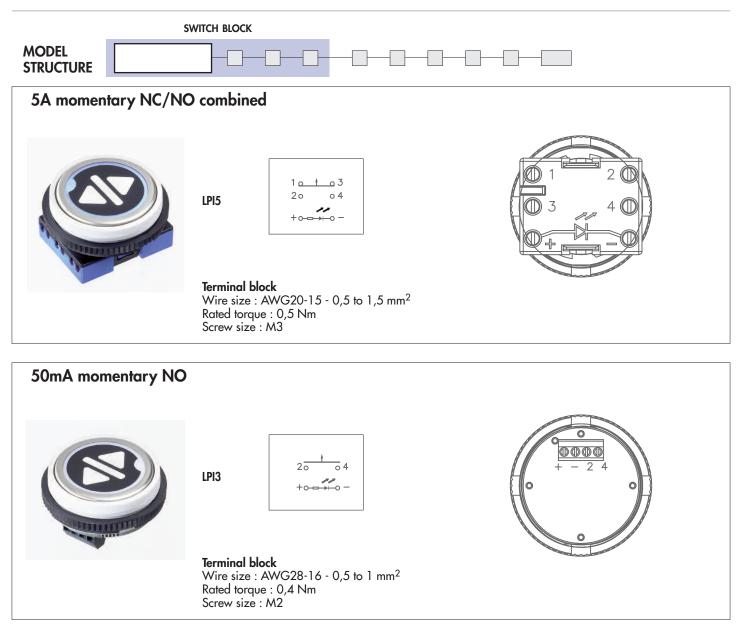
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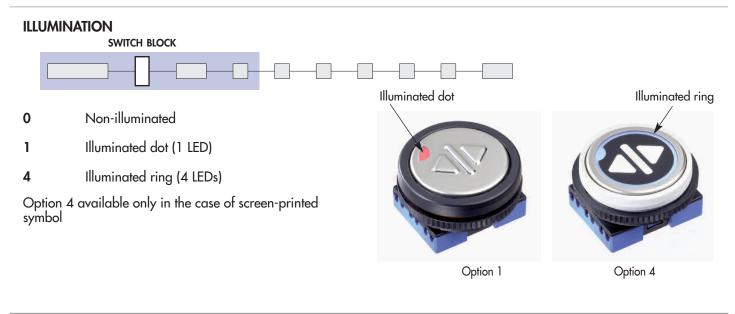
Switch block



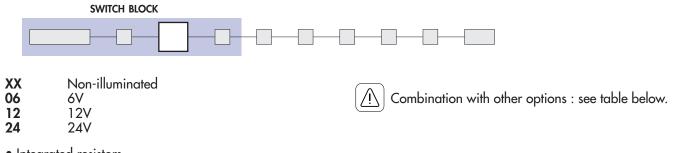
ERMEC, S.L. BARCELONA WWW.ermec.com WWW.ermec.com C/ Francesc Teixidó, 22 E-08918 Badalona (Spain) Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088 info@ermec.com www.ermec.com ERMEC, S.L. MADRID C/ Sagasta, 8, 1ª planta E-28004 Madrid (Spain) PORTUGAL portugal@ermec.com BILBAO bilbao@ermec.com

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Switch block



LED VOLTAGE

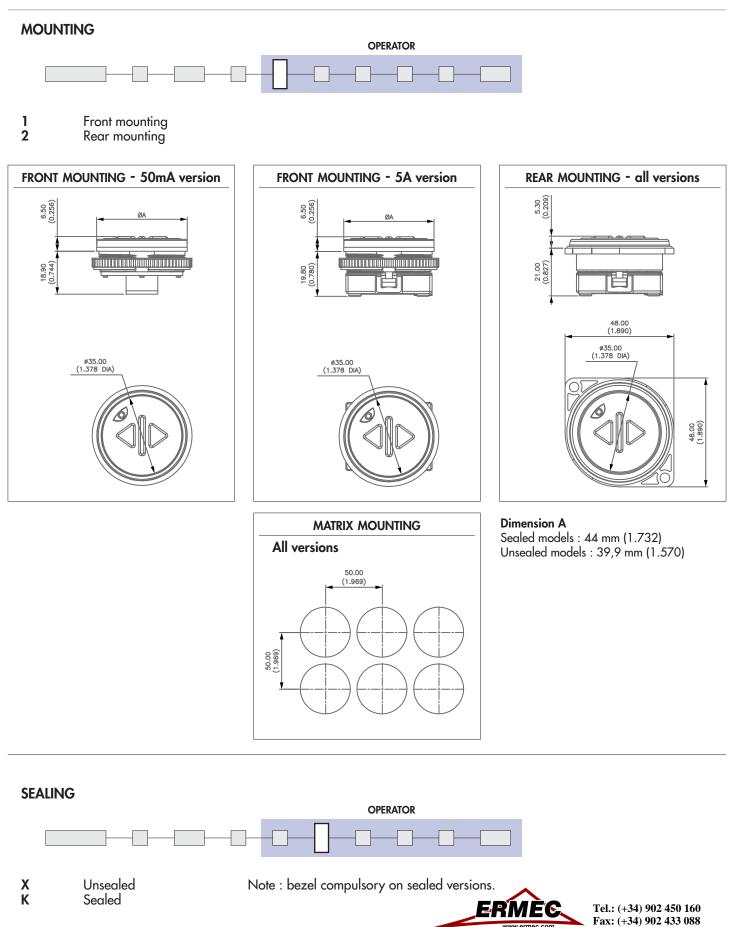


- Integrated resistors
- LED current : 20mA typical for dot or ring (30mA max.)
- LEDs protected from reverse polarity
- Stand-by consumption for illuminated product : 0,5VA max.

| LED | COLOUR SWITCH BLOCK | | | | | | |
|--|----------------------------|-------------|--|-------|-------|------|-------|
| | |] | | | | | |
| | | | Colours available with illuminated ring (option 4) | | | | |
| Х | Non-illuminated | | Red | Green | Amber | Blue | White |
| R | Red | LED voltage | Version 5A | | | | |
| G | Green Amber | 6V | No | No | No | No | No |
| A B | Blue | 12V | Yes | Yes | No | No | No |
| Ŵ | White | 24V | Yes | Yes | Yes | Yes | No |
| | | LED voltage | Version 50mA | | | | |
| | \wedge | 6V | No | No | No | No | No |
| E | Tel.: (+34) 902 450 | | Yes | No | Yes | No | No |
| www.ermec.com Distribución de componentes eléctricos y electrónicos Www.ermec.com | | 24V | Yes | Yes | Yes | Yes | No |

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Operator



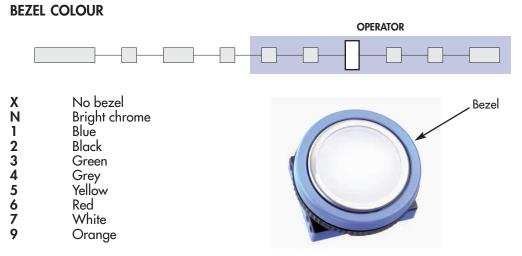
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Distribución de componentes eléctricos y electrónicos

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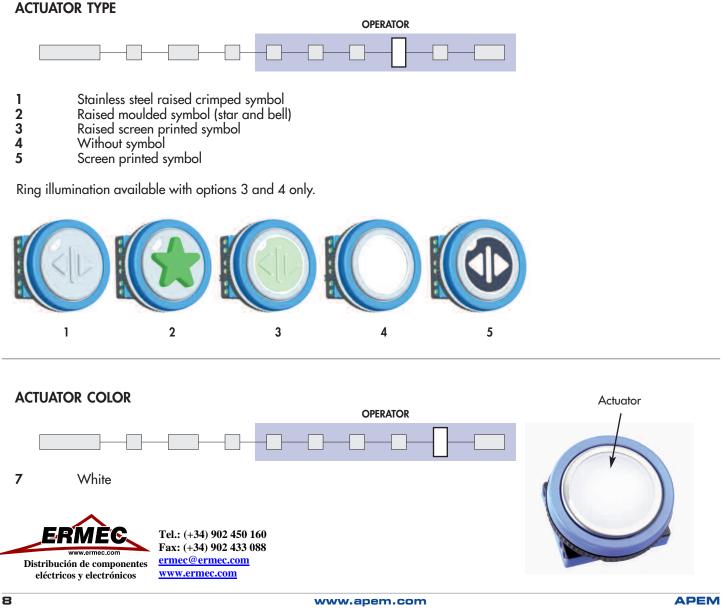
Operator



For sealed versions, the bezel is compulsory

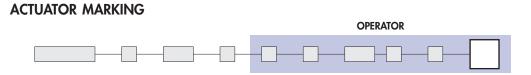
For unsealed versions, the bezel is optional on rear mounting versions (not available on front mounting versions).

Bright chrome (option N) : consult us.



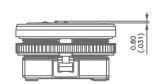
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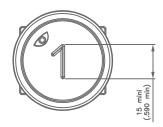
Operator



| CODE | SYMBOL | DESCRIPTION | | |
|------|--------|------------------------------|--|--|
| ХХ | / | No symbol | | |
| 00 | 0 | | | |
| 01 | 1 | | | |
| 02 | 2 | | | |
| 03 | 3 | | | |
| 04 | 4 | | | |
| 05 | 5∙ | With single tactile point | | |
| 06 | 6 | | | |
| 07 | 7 | | | |
| 08 | 8 | | | |
| 09 | 9 | | | |
| 10 | | | | |
| 11 | -1 | | | |
| 12 | -2 | | | |
| 13 | -3 | | | |

| CODE | SYMBOL | DESCRIPTION | |
|------|--------|--------------------------------|--|
| 14 | | Open | |
| 15 | ▶ | Close | |
| 16 | Δ | Up | |
| 17 | V | Down | |
| 18 | Δ | Left | |
| 19 | | Right | |
| 20 | ş | Ventilation | |
| 21 | | Alarm (moulded, yellow) | |
| 22 | * | Exit level (moulded, green) | |
| 23 | 0 | Phone | |





Actuator type 1

| | Symbol height | | | | |
|------------------------|------------------|------------------|--------------|--|--|
| | Symbol 21 | Symbol 22 | Other symbol | | |
| Actuator type 1 | х | х | 0,8 mm | | |
| Actuator type 2 | 5 mm | 5 mm | × | | |
| Actuator type 3 | х | х | 0,8 mm | | |
| Actuator type 4 | х | х | x | | |
| Actuator type 5 | х | х | 0 mm | | |

x = non available



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APEM, a world of switching capabilities

The APEM group is one of the world's largest manufacturers of switches, switch panels and joysticks.

APEM designs, develops, manufactures and sells electromechanical components to multiple industrial markets including: instrumentation, medical, security, communications, industrial automation, avionics, military and transport.

Matching products





Switch panels

APEM offers several switch panel technologies suitable for automotive, industrial, vending, military and other professional custom applications. APEM has expertise in designing and manufacturing membrane switch panels, stainless steel keyboards and complete custom interfaces incorporating backlighting, electroluminescence, EMC protection and associated electronics

LED indicators

The Q series panel mount LED indicators complement the APEM range of products. This series comprises seven different diameters, from 6 mm to 22 mm. They are available with prominent, recessed and flush bezel styles, different bezel finishes, five LED colours, as well as bicolour, tricolour and flashing LEDs. Integral resistors permit direct connection to 12VDC, 24VDC, 110VAC and 230VAC. APEM also manufactures special DDA-compliant yellow LED indicators.

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Addresses of sales subsidiaries and distributors network on

www.apem.com