



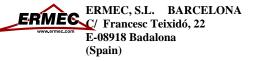
Tactile pushbutton switches with large actuator





Ø 35 mm actuator





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

Tactile pushbutton switches with large actuator

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.

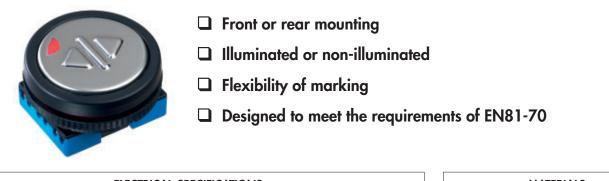
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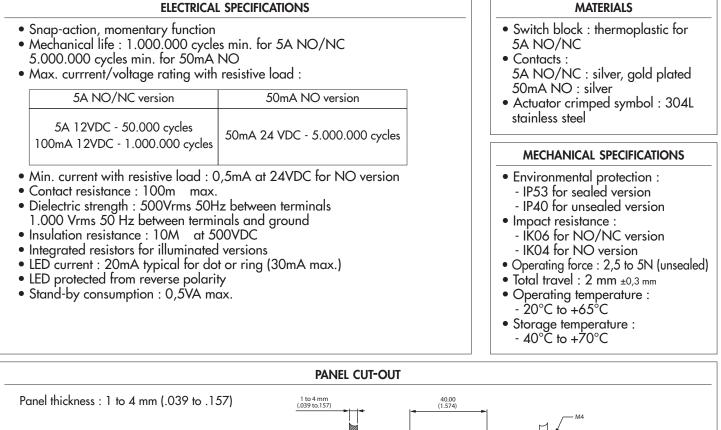
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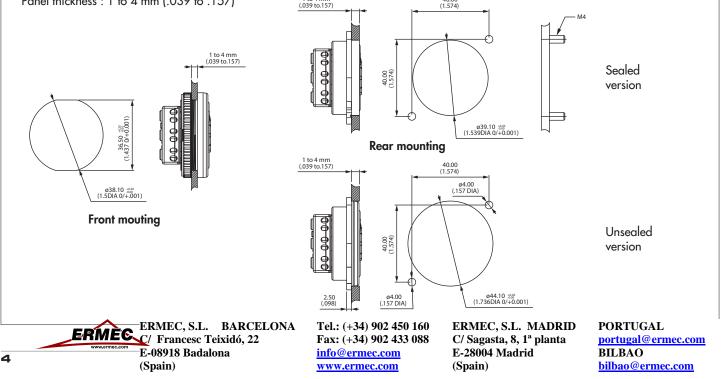
Dimensions : First dimensions are in mm while inches are shown as bracketed numbers. **Tolerance** : The general tolerance for dimensions in this brochure is $\pm 0,3$ (.012). Overall dimension tolerance is $\pm 0,5$ (.020). Dimensions, specifications and data shown in this brochure are subject to change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

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Specifications

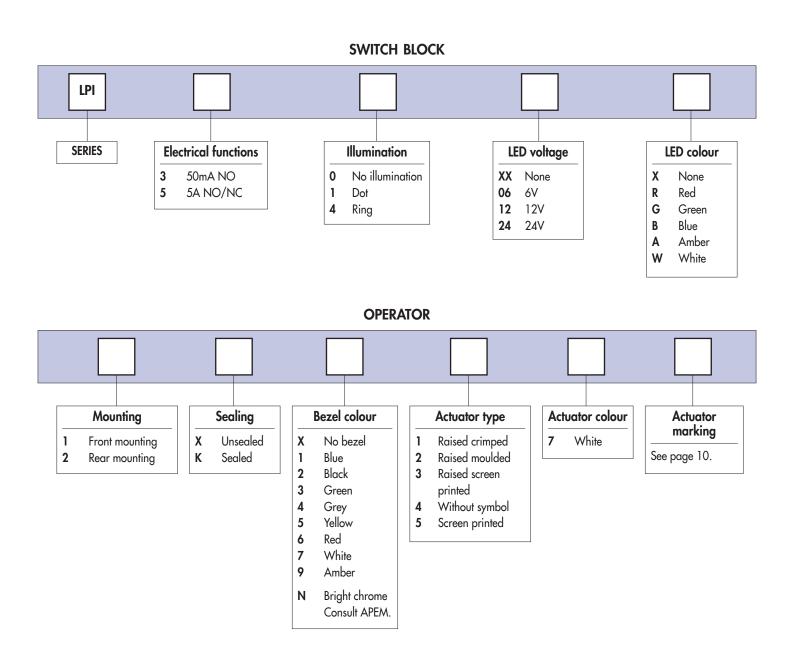






Tactile pushbutton switches with large actuator

Overview



ABOUT THIS SERIES

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



R.

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.

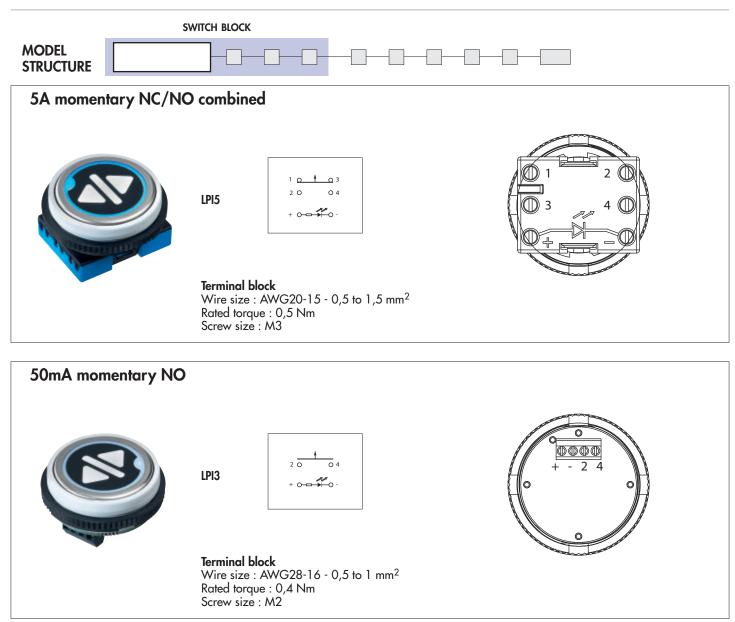


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Switch block

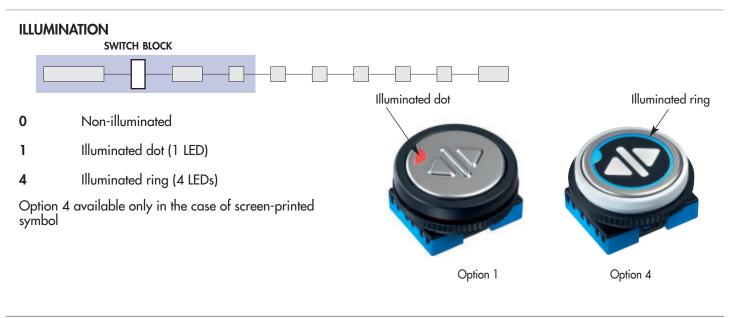




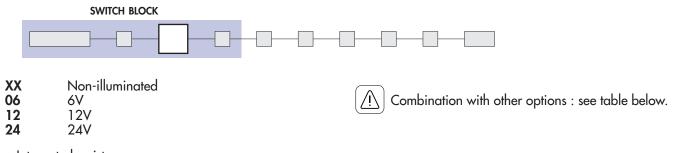
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Switch block



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.

			-00-				
			Colo	urs availa	ble with illumina	ted ring (c	option 4)
Х	Non-illuminated		Red	Green	Amber	Blue	White
R	Red	LED voltage		Version 5A			
G A	Green Amber	6V	No	No	No	No	No
B	Blue	12V	Yes	Yes	No	No	No
W	White	24V	Yes	Yes	Yes	Yes	No
		LED voltage	Version 50mA				
		6V	No	No	No	No	No
		12V	Yes	No	Yes	No	No
		24V	Yes	Yes	Yes	Yes	No
APEN	ERMEC, S.L. BA ERMEC, S.L. BA VWW.EFMEC.201 E-08918 Badalona (Spain)		Tel.: (+34) 902 Fax: (+34) 902 info@ermec.co www.ermec.co	433 088 <u>m</u>	ERMEC, S.L. MA C/ Sagasta, 8, 1 ^a pl E-28004 Madrid (Spain)	lanta <u> </u> 	PORTUGAL portugal@ermec.com BILBAO pilbao@ermec.com

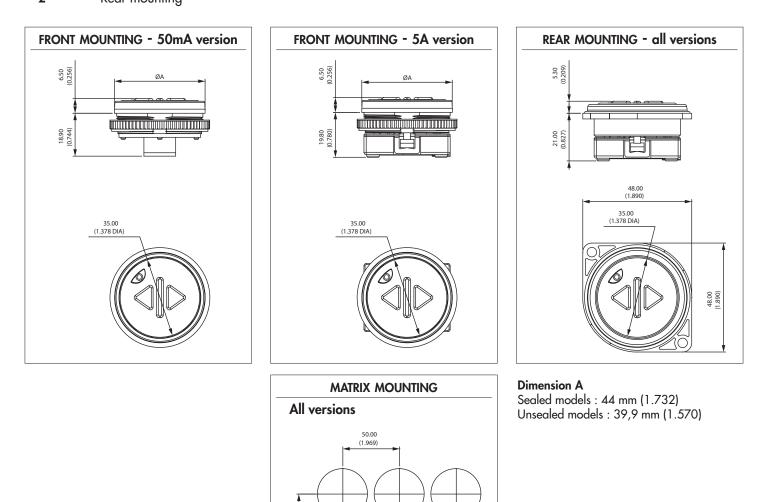
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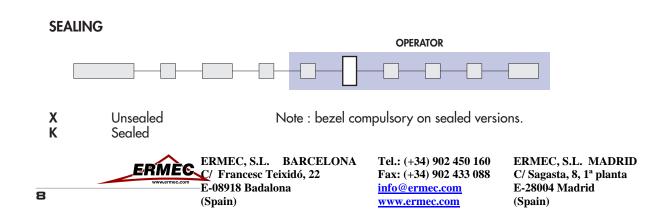
Operator

MOUNTING



1Front mounting2Rear mounting

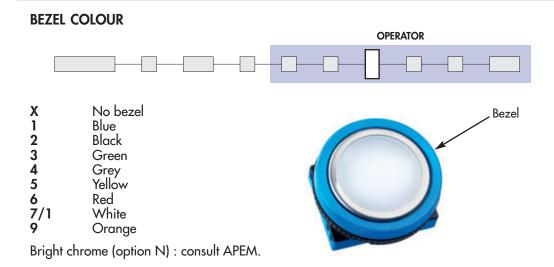




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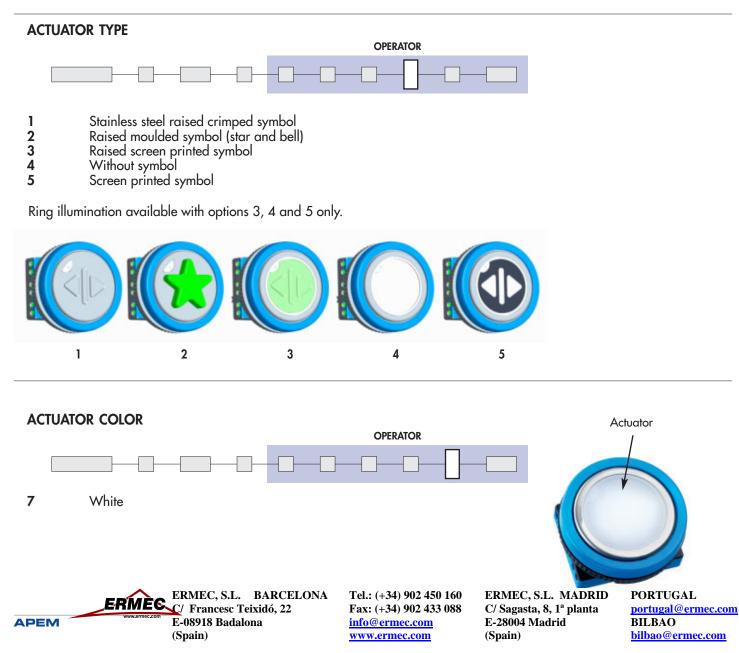
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Operator



For sealed versions, the bezel is compulsory

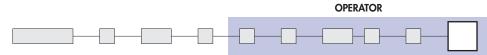
For unsealed versions, the bezel is optional on rear mounting versions (not available on front mounting versions).



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Operator

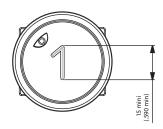
ACTUATOR MARKING



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	$\mathbf{\nabla}$	Down
18	Δ	Left
19		Right
20	%	Ventilation
21		Alarm (moulded, yellow)
22	*	Exit level (moulded, green)
23	C	Phone





Actuator type 1

	Symbol height				
	Symbol 21	Symbol 22	Other symbol		
Actuator type 1	х	х	0,8 mm		
Actuator type 2	0,8 mm	5 mm	x		
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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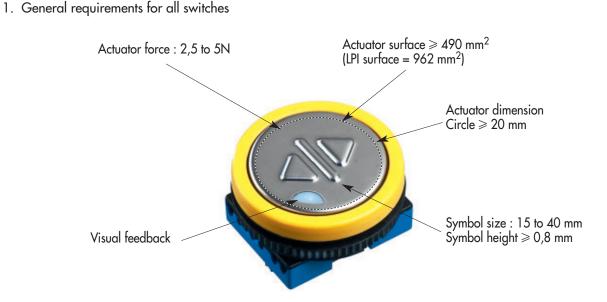
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EN81-70 compliance

EN81-70 "Safety rules for the construction and installation of lifts - Particular applications for passengers and goods lifts - Part 70 : Accessibility to lifts for persons including persons with disability"

This European standard covers the design of lifts in such a way that their features would not obstruct or impede access and use by disabled people. The standard defines the requirements for new lifts, but may be used as guidance for upgrading existing lifts.

In paragraph 5.4, this standard describes lift control and signal devices.



SUMMARY OF REQUIREMENTS

2. Particular symbols



Floor buttons Identified by symbols -2, -1, 0, 1, 2, etc.



Alarm buttons



Door opening buttons



Exit level buttons 5 mm ±1mm high symbol, preferably green



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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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