

LPI series

Tactile pushbutton switches
with large actuator



DISTINCTIVE FEATURES

Large ergonomic actuator Ø 35 (1.378)

Tactile feedback

Low behind-panel depth 21 (.827) max.

Wide choice of markings

Ring or dot illumination



ENVIRONMENTAL SPECIFICATIONS

- Environmental protection :
IP53 for sealed version - IP40 for unsealed version
- Impact resistance : IK06 for NO/NC version - IK04 for NO version
- Operating temperature : - 20 °C to +65 °C (-4 °F to +149 °F)
- Storage temperature : - 40°C to +70°C (-40 °F to +158 °F)



ELECTRICAL SPECIFICATIONS

- Snap-action, momentary function
- Mechanical life : 1,000,000 cycles min. for 5 A NO/NC
5,000,000 cycles min. for 50 mA NO
- Max. current/voltage rating with resistive load :

5 A NO/NC version	50 mA NO version
5 A 12 VDC - 50,000 cycles	50 mA 24 VDC - 5,000,000 cycles
100 mA 12 VDC - 1,000,000 cycles	

- Min. current with resistive load : 0.5 mA at 24 VDC for NO version
- Contact resistance : 100 mΩ max.
- Dielectric strength : 500 Vrms 50 Hz between terminals
1,000 Vrms 50 Hz between terminals and ground
- Insulation resistance : 10 MΩ at 500 VDC
- Integrated resistors for illuminated versions
- LED current : 20 mA typical for dot or ring (30 mA max.)
- LED protected from reverse polarity
- Stand-by consumption : 0.5 VA max.

The company reserves the right to change specifications without notice.



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GENERAL SPECIFICATIONS

- Operating force : 2.5 to 5 N (unsealed)
- Total travel : 2 mm $\pm$ 0.3 mm
- Panel thickness : 1 to 4 mm (.039 to .157)



MATERIALS

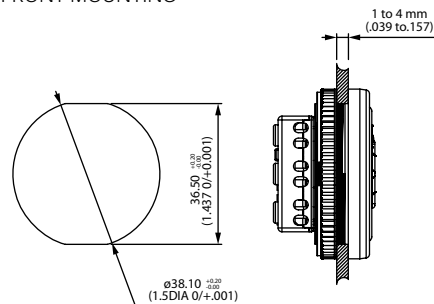
- Switch block : thermoplastic for 5 A NO/NC
- Contacts :
5 A NO/NC : silver, gold plated
50 mA NO : silver
- Actuator crimped symbol : 304L stainless steel

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

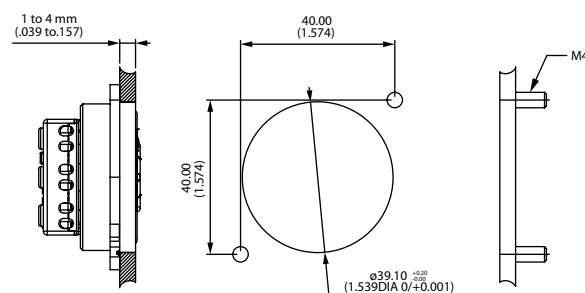


PANEL CUT-OUT

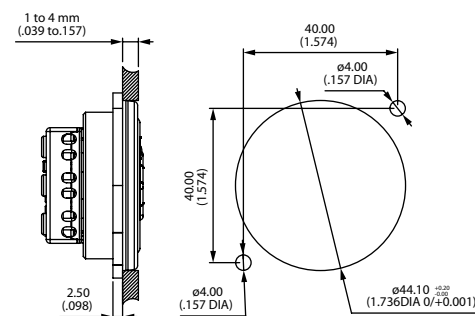
FRONT MOUNTING



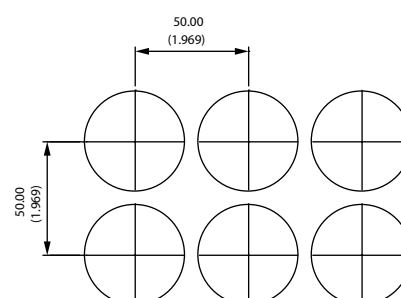
REAR MOUNTING - UNSEALED VERSION



REAR MOUNTING - SEALED VERSION



MATRIX MOUNTING



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BUILD YOUR PART NUMBER

SWITCH BLOCK					
SERIES	ELECTRICAL FUNCTIONS	ILLUMINATION	LED VOLTAGE	LED COLORS	
LPI	3 50 mA NO 5 5 A NO/NC	0 No illumination 1 Dot 4 Ring	XX None 06 6 V 12 12 V 24 24 V	X None R Red G Green	B Blue A Amber W White
OPERATOR					
MOUNTING	SEALING	BEZEL COLORS	ACTUATOR TYPES	ACTUATOR COLOR	ACTUATOR MARKING
1 Front mounting 2 Rear mounting	X Unsealed K Sealed	X No bezel 1 Blue 2 Black 3 Green 4 Grey 5 Yellow 6 Red 7 White 9 Amber N Satin grey Consult APEM.	1 Raised crimped 2 Raised molded 3 Raised screen printed 4 Without symbol 5 Screen printed	7 White	14 Open 15 Close 16 Up 17 Down 18 Left 19 Right Other symbols : see end of series.



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- ⚠ **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- 💧 **Sealing boot** available to increase the sealing of LPI switches. See "Sealing Boots" section of website.

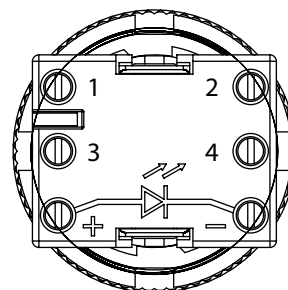
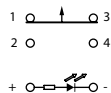
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5 A MOMENTARY NC/NO COMBINED



LPI5



Terminal block

Wire size : AWG20-15 - 0.5 to 1,5 mm²

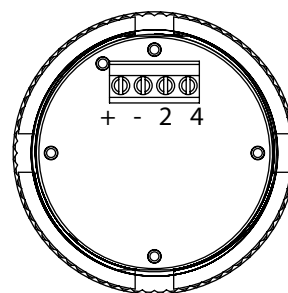
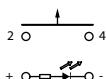
Rated torque : 0.5 Nm

Screw size : M3

50 mA MOMENTARY NO



LPI3



Terminal block

Wire size : AWG28-16 - 0.5 to 1 mm²

Rated torque : 0.4 Nm

Screw size : M2

SWITCH BLOCK

ILLUMINATION

BASIC P/N



OPERATOR

- 0 Non-illuminated
- 1 Illuminated dot (1 LED)
- 4 Illuminated ring (4 LEDs)

Option 4 available only in the case of screen-printed symbol



1

4

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SWITCH BLOCK



XX	Non-illuminated
06	6 V
12	12 V
24	24 V

- Integrated resistors
- LED current : 20 mA typical for dot or ring (30 mA max.)
- LEDs protected from reverse polarity
- Stand-by consumption for illuminated product : 0.5 VA max.

ⓘ Combination with other options : see table below.

SWITCH BLOCK



X	Non-illuminated
R	Red
G	Green
A	Amber
B	Blue
W	White

For illuminated ring, see table opposite.

LED COLORS

COLORS AVAILABLE WITH ILLUMINATED RING (OPTION 4)

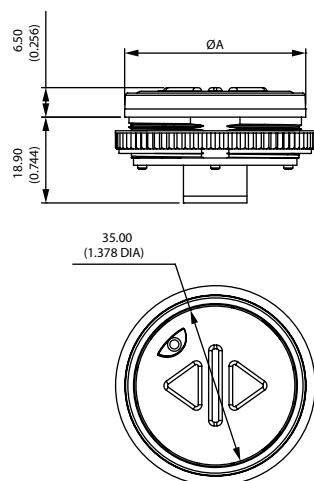
	Red	Green	Amber	Blue	White
LED voltage					
Version 5 A					
6 V	No	No	No	No	No
12 V	Yes	Yes	No	No	No
24 V	Yes	Yes	Yes	Yes	Yes
LED voltage					
Version 50 mA					
6 V	No	No	No	No	No
12 V	Yes	No	Yes	No	No
24 V	Yes	Yes	Yes	Yes	Yes

OPERATOR

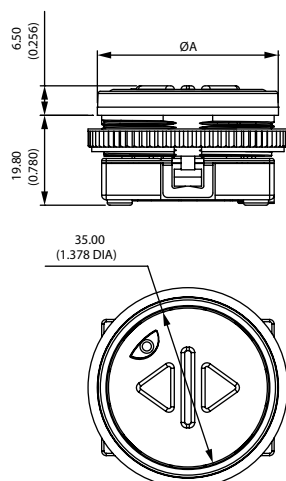


- 1 Front mounting
- 2 Rear mounting

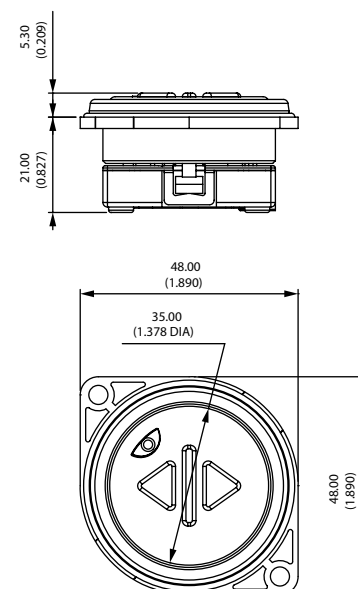
FRONT MOUNTING - 50 mA VERSION



FRONT MOUNTING - 5 A VERSION



REAR MOUNTING - ALL VERSIONS



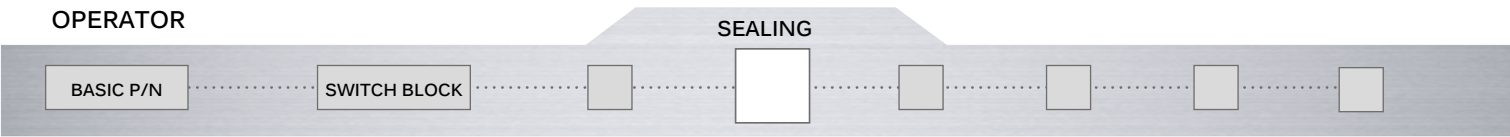
Dimension A

Sealed models : 44 mm (1.732) / Unsealed models : 39.9 mm (1.570)

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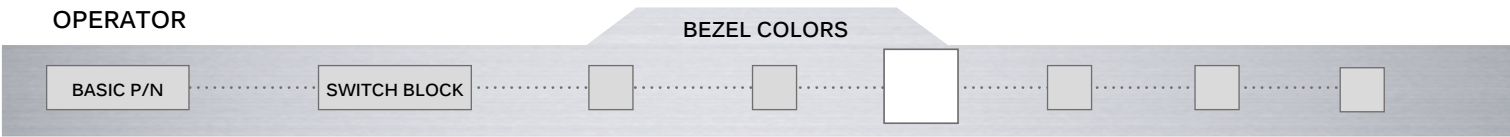
OPERATOR



X Unsealed
K Sealed

Note : bezel compulsory on sealed versions.

OPERATOR



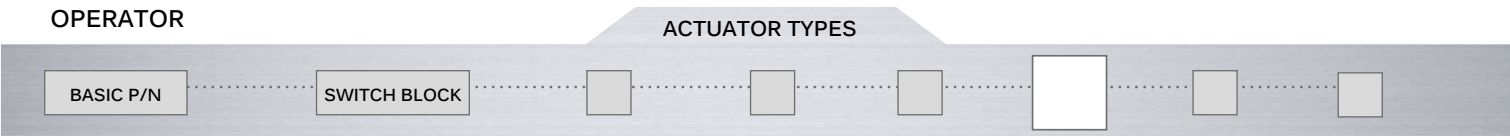
X	No bezel	5	Yellow
1	Blue	6	Red
2	Black	7/1	White
3	Green	9	Orange
4	Grey		

Satin grey (option N) : consult APEM.

For sealed versions, the bezel is compulsory.



OPERATOR



- 1 Stainless steel raised crimped symbol
- 2 Raised molded symbol (star and bell)
- 3 Raised screen printed symbol
- 4 Without symbol
- 5 Screen printed symbol

Ring illumination available with options 3, 4 and 5 only.



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OPERATOR

ACTUATOR COLOR

BASIC P/N	SWITCH BLOCK						
7	White						



OPERATOR

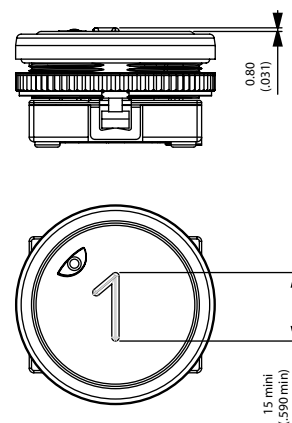
ACTUATOR MARKING

BASIC P/N	SWITCH BLOCK						

CODE	SYMBOL	DESCRIPTION
XX	/	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	
11	-1	
12	-2	
13	-3	

CODE	SYMBOL	DESCRIPTION
14	Open symbol	Open
15	Close symbol	Close
16	Up symbol	Up
17	Down symbol	Down
18	Left symbol	Left
19	Right symbol	Right
20	Ventilation symbol	Ventilation
21	Alarm symbol	Alarm (molded, yellow)
22	Exit level symbol	Exit level (molded, green)
23	Phone symbol	Phone

ACTUATOR TYPE 1



SYMBOL HEIGHT

	Symbol 21	Symbol 22	Other symbol
Actuator type 1	X	X	0.8 mm
Actuator type 2	0.8 mm	5 mm	X
Actuator type 3	X	X	0.8 mm
Actuator type 4	X	X	X
Actuator type 5	X	X	0 mm

x = non available

Mouser Electronics

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