

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

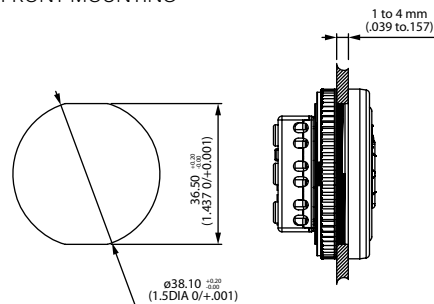
- Switch block : thermoplastic for 5 A NO/NC
- Contacts :
5 A NO/NC : silver, gold plated
50 mA NO : silver
- Actuator crimped symbol : 304L stainless steel

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

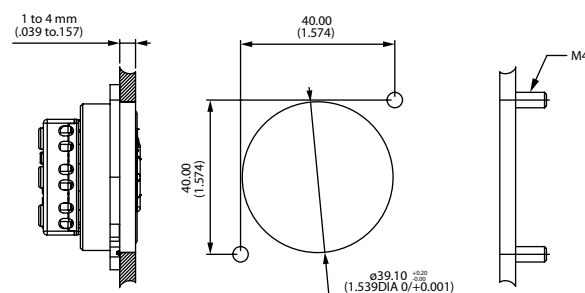


PANEL CUT-OUT

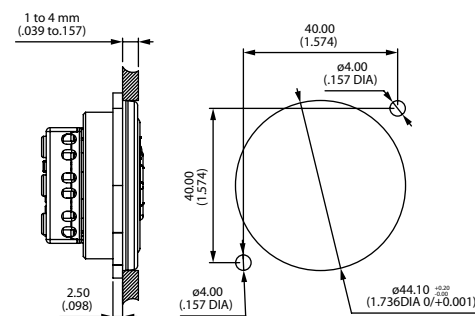
FRONT MOUNTING



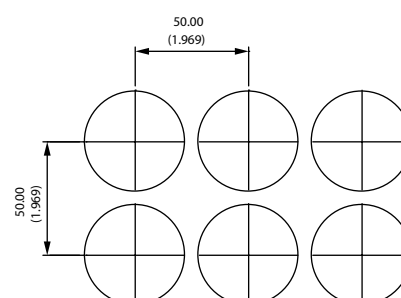
REAR MOUNTING - UNSEALED VERSION



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.

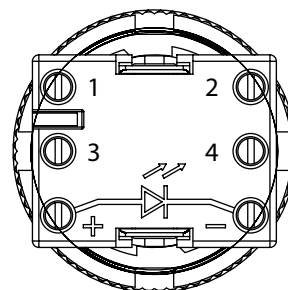
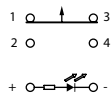
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5 A MOMENTARY NC/NO COMBINED



LPI5



Terminal block

Wire size : AWG20-15 - 0.5 to 1,5 mm²

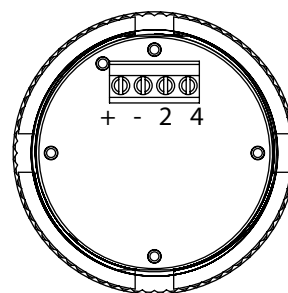
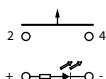
Rated torque : 0.5 Nm

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

LED VOLTAGE



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

LED COLORS



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

For illuminated ring, see table opposite.

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

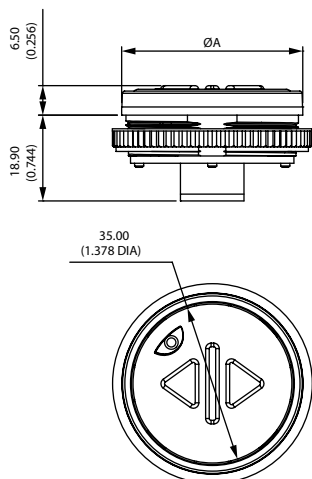
OPERATOR

MOUNTING

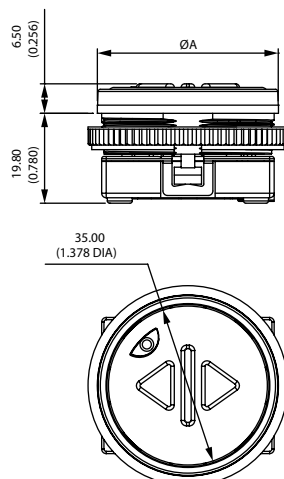


- 1 Front mounting
- 2 Rear mounting

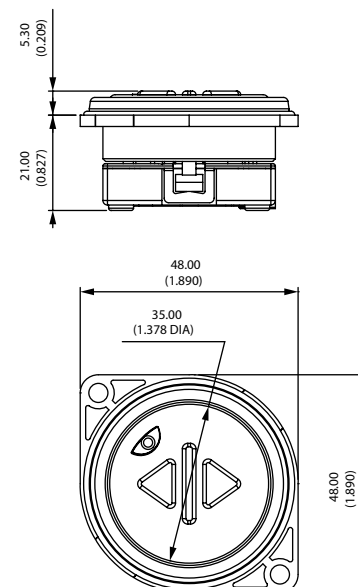
FRONT MOUNTING - 50 mA VERSION



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

SEALING



X Unsealed
K Sealed

Note : bezel compulsory on sealed versions.

OPERATOR

BEZEL COLORS



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

ACTUATOR TYPES



- 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

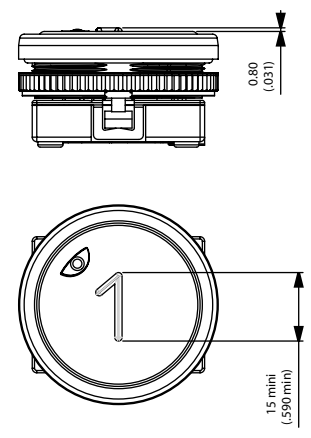
BASIC P/N

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
15	▶◀	Close
16	▲	Up
17	▼	Down
18	◀◀	Left
19	▶▶	Right
20	⋈	Ventilation
21	🔔	Alarm (molded, yellow)
22	★	Exit level (molded, green)
23	☎	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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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