

IX series

Pushbutton switches for harsh environments •
bushing Ø 12 mm • momentary NO & NC/NO



DISTINCTIVE FEATURES

Backlighted marking in a compact case

Strong tactile feedback

NO or NC/NO

High sealing level, no space between actuator and
bushing (IP67/IP69K)



ENVIRONMENTAL SPECIFICATIONS

- Operating and storage temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Front panel sealing : IP67 according to IEC 60529,
IP69K according to DIN 40050-9
- Shock resistance: 100 g according to IEC 512-4, test 6c
- Salt spray: IEC 512-6, test 11f



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load:
 - Gold plated contact (0): 100 mA 28 VDC, 1,000,000 cycles
 - Silver contact (1): 2 A 28 VDC, 100,000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500 VDC
- Dielectric strength : 1,500 Vrms
- Contact bounce : 10 ms



LED COMPONENT SPECIFICATIONS

LED color	Forward current	Typ. forward voltage	Max. forward voltage
Red (R)	20 mA	1.9 V	2.5 V
Yellow (Y)	20 mA	2.3 V	2.8 V
Green (G)	20 mA	4 V	4.5 V
Blue (B)	20 mA	3.2 V	3.7 V
White (W)	20 mA	3.3 V	4 V
Red/green (F)	20 mA	Red: 2 V / green: 3.2 V	Red: 2.8 V / green: 3.7 V

A resistor must be series-connected by the user.
 Resistor value = $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

The company reserves the right to change specifications without notice.

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GENERAL SPECIFICATIONS

- Panel thickness : 1.5 to 6 mm
- Total travel : 2 mm (.078) ± 0.3 mm
- Typical operating force : 7 N ± 2 N
- Low level/mech. life : 1,000,000 cycles
- Torque : 0.55 Nm (0.6 Nm max.) applied to nut
- Soldering : 320 °C (608 °F) max. for 3 sec.



MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : silicone
- Bushing : ABS UL94 HB
- Contacts :
0 : gold plated
1 : silver
- Output wires : AWG24, section 0.23 mm² - 500 mm
- Terminal seal : epoxy

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



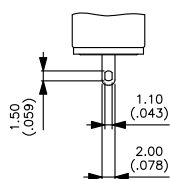
CONNECTIONS

WIRES TERMINALS

- Contact NO : black color / Contact NC : blue color
- LED : + : red color
- : white color



TERMINALS

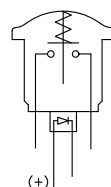


Solder lug S

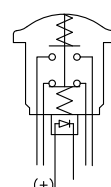


ELECTRICAL FUNCTION

ILLUMINATED MODELS

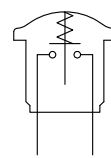


Function 3 (NO)

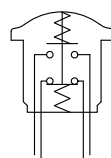


Function 5 (NC/NO)

NON-ILLUMINATED MODELS



Function 3 (NO)

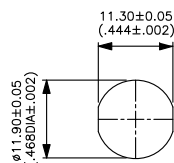


Function 5 (NC/NO)

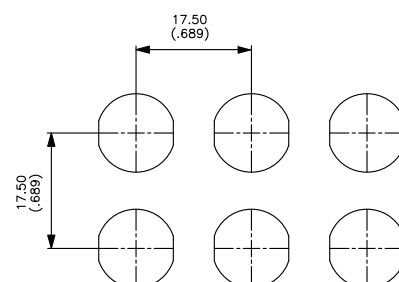


MOUNTING

PANEL CUT-OUT



MATRIX MOUNTING

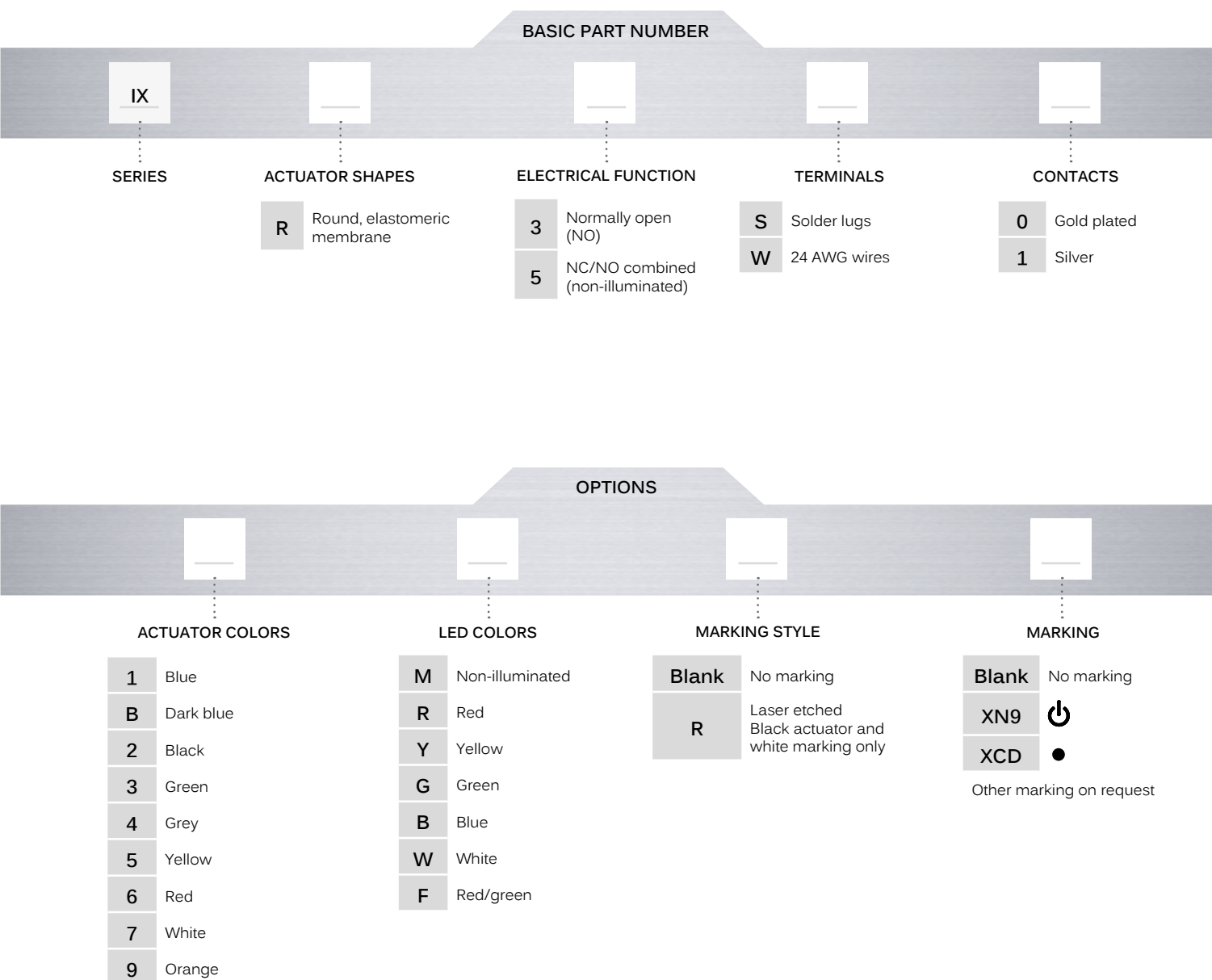


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BUILD YOUR PART NUMBER



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.



Mounting accessories : Standard hardware supplied : 1 hex nut 14 mm (.551) across flats and 1 O-Ring.

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SOLDER LUG TERMINALS
NON-ILLUMINATED - NO



IXR3S••M

SOLDER LUG TERMINALS
NON-ILLUMINATED - NC/NO



IXR5S••M

SOLDER LUG TERMINALS
ILLUMINATED - NC/NO



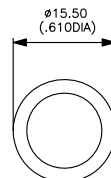
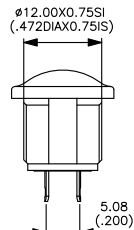
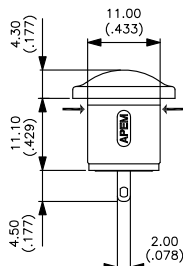
IXR5S

FLYING LEAD TERMINALS
ILLUMINATED - NC/NO

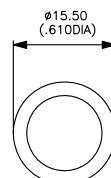
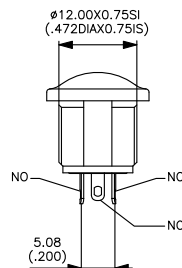
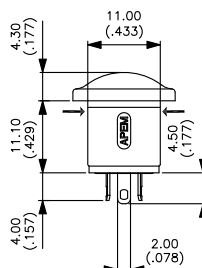


IXR5W

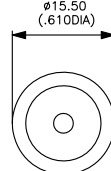
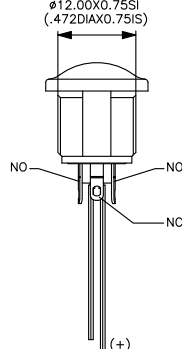
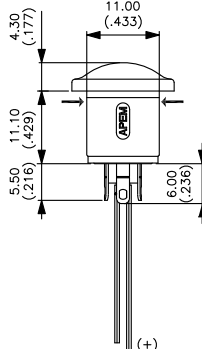
→ FLAT



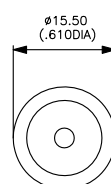
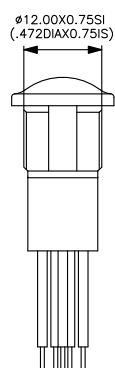
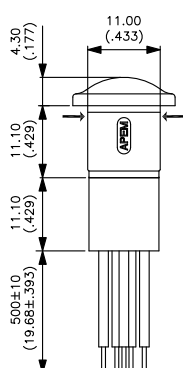
→ FLAT



→ FLAT



→ FLAT



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ACTUATOR COLORS



1	Blue	5	Yellow
B	Dark blue	6	Red
2	Black	7	White
3	Green	9	Orange
4	Grey		

LED COLORS



M	Non-illuminated
R	Red
Y	Yellow
G	Green
B	Blue
W	White
F	Red/green

MARKING STYLE



Blank	No marking
R	Laser etched - Black actuator and white marking only

MARKING



Blank	No Marking
XN9	 - Symbol "power"
XCD	 - Symbol "dot"

Other marking on request

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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