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



SMIT 2212

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
- UV-resistant membrane : ISO 4892-2 : 2013 ; method A, cycle 1 ; 750h

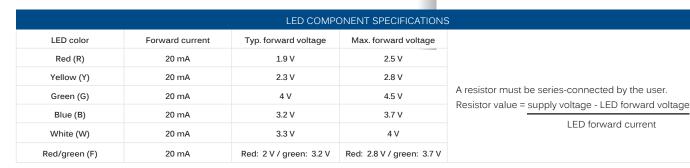


ELECTRICAL SPECIFICATIONS

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

For W terminals, current has to be limited to 400 mA.

- Initial contact resistance : 100 m Ω max.
- Insulation resistance : $1~\text{G}\Omega$ min. at 500 VDC
- Dielectric strength : 1,500 Vrms
- Contact bounce : 10 ms



APEN

The company reserves the right to change specifications without notice.

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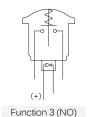
(<u></u>

) GENERAL SPECIFICATIONS

- Panel thickness : 2 to 8 mm
- Total travel : 2 mm (.078) ± 0.3 mm
- Typical operating force : 7 N \pm 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.

ELECTRICAL FUNCTION

ILLUMINATED MODELS





Function 5 (NC/NO)

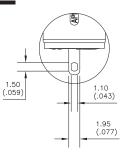
D) MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : silicone
- Bushing : ABS UL94 HB
- Contacts :
- 0 : brass, 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.

WIRES TERMINALS

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



Solder lug S

NON-ILLUMINATED MODELS



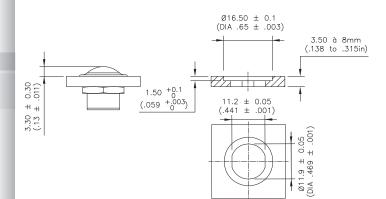


Function 3 (NO)

Function 5 (NC/NO)



RECOMMENDED PANEL CUT-OUT (IP69K)

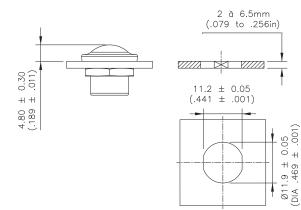


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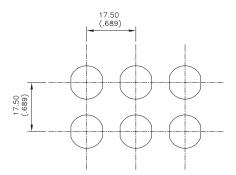


MOUNTING (CONTINUED)

OTHER PANEL CUT-OUT

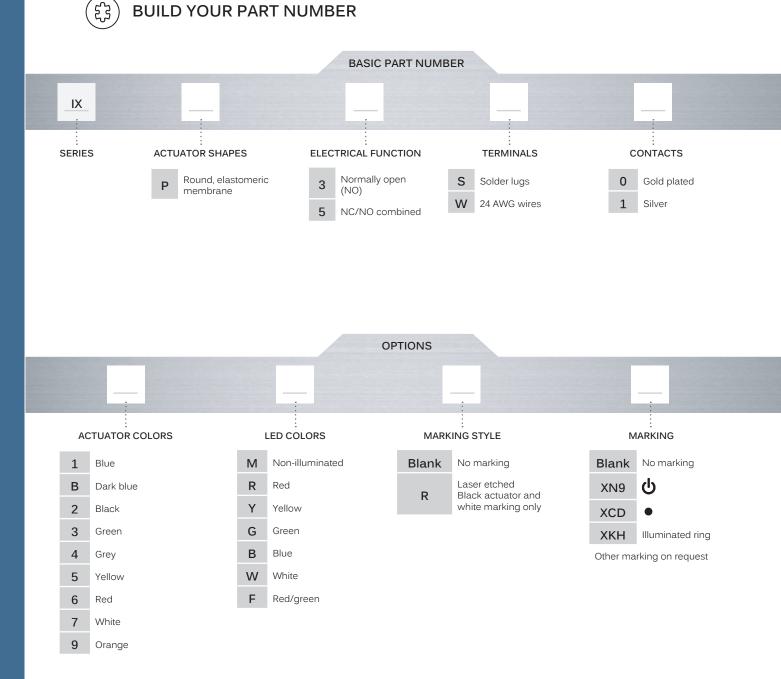


MATRIX MOUNTING



3

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



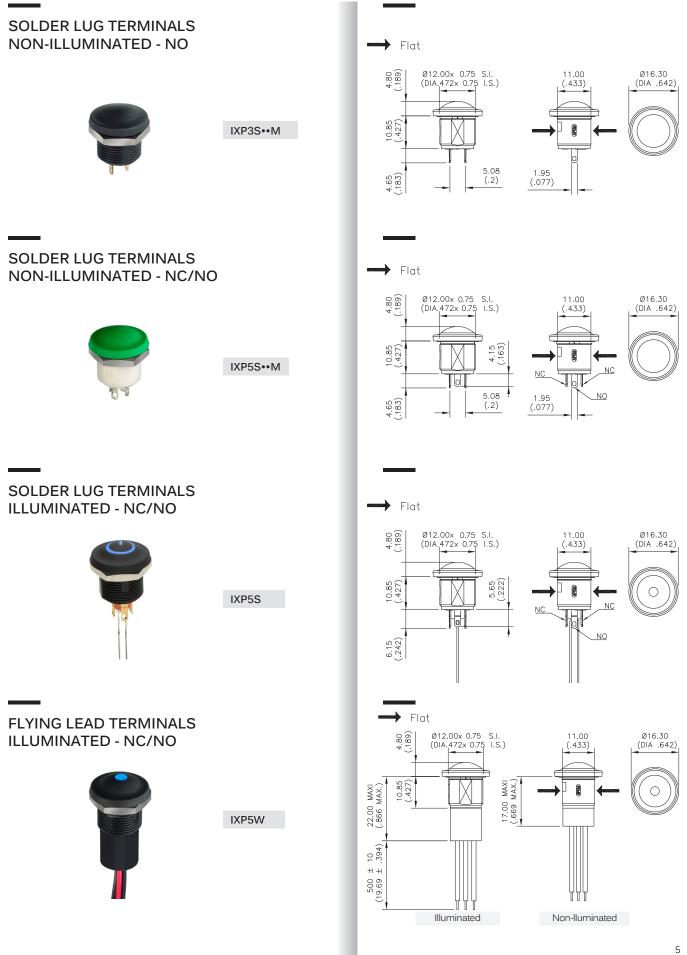
APEM

) 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.

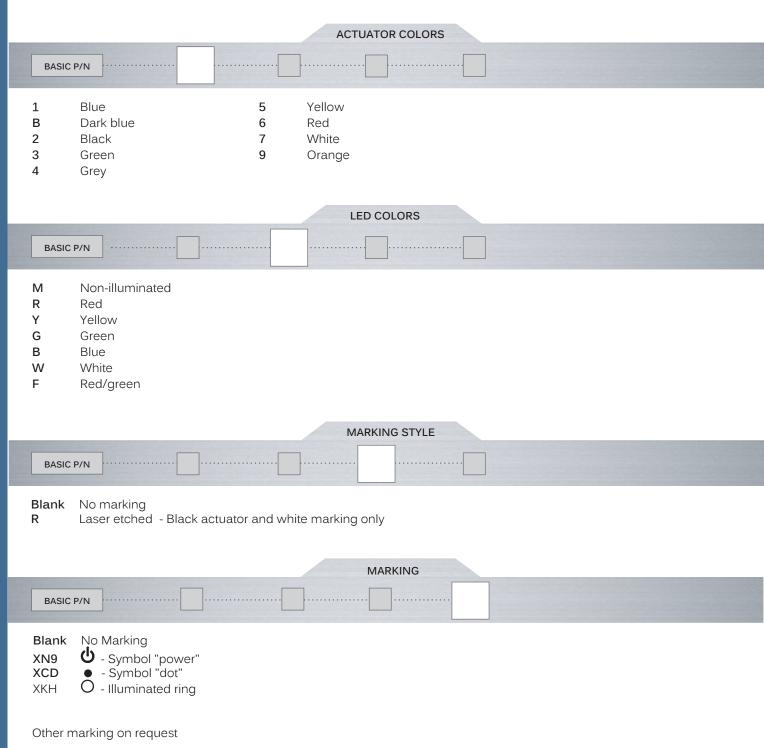
- () Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- $\begin{pmatrix} 1 \\ 0 \end{pmatrix}$ Mounting accessories : Standard hardware supplied : 1 hex nut 14 mm (.551) across flats.

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Example of IX switch with marking.

Please note that the anti-rotation flats are pointed with the arrows.

→ Flat



APEM