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



SW17+1801

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 m Ω max.
- Insulation resistance : 1 G Ω 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	A resistor must be series-connected by the user. Resistor value = supply voltage - LED forward voltage LED forward current
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	

The company reserves the right to change specifications without notice.

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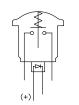
(f)

) GENERAL SPECIFICATIONS

- Panel thickness : 1.5 to 6 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 3 (NO)

NON-ILLUMINATED MODELS

Function 5 (NC/NO)

Function 5 (NC/NO)

D 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.



WIRES TERMINALS

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



Solder lug ${\boldsymbol{\mathsf{S}}}$



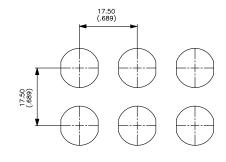
Function 3 (NO)



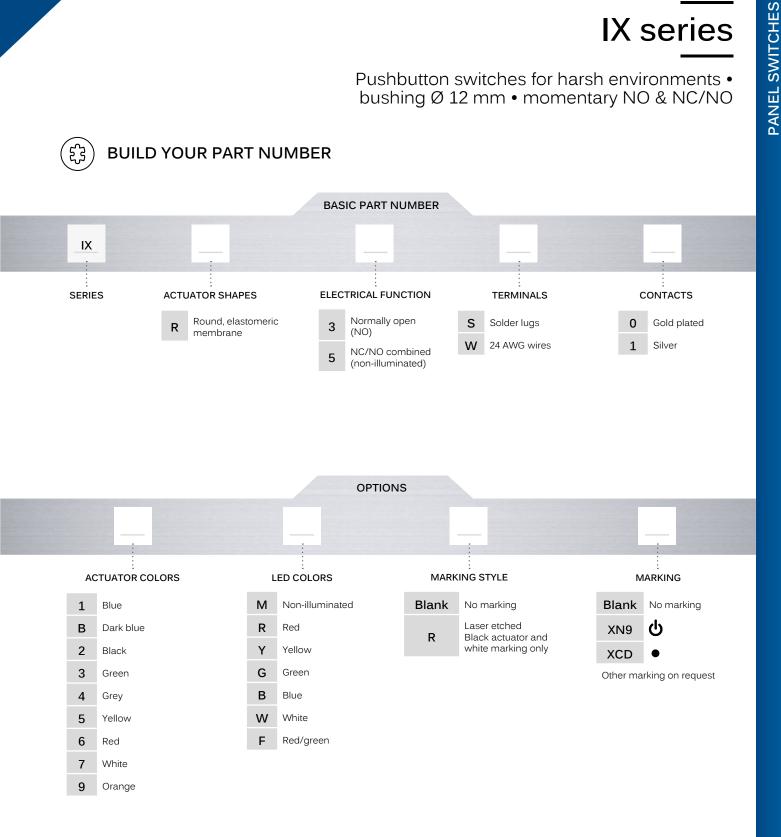
PANEL CUT-OUT



MATRIX MOUNTING



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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. \bigcirc

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

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