PANEL SEALED 5 AMP PUSHBUTTON SWITCHES

Series SA48

The ITW SA series pushbutton offers the utmost in choices of mounting style, button colours, terminations, bezels and lighting switching. These 5 AMP sealed switches have a positive snap action feel. Bushing mount or snap-in mounting available. They are ideal for rugged applications that good looks and long life.



KEY FEATURES:

Size	12mm
Current Rating	5A @ 28VDC
Mechanical Life	25k Cycle Nominal
Operating Temperature	-40˚ to +185˚F [-40˚ to +85˚C]
Circuitry	1NO/1NC
Ingress Protection	IP67 (Front Panel)
Standards	UL 61058 / IEC 61058
Snap Action	Momentary / Maintained
Illumination	Green/ Red/ Blue/ White/ Yellow

APPLICATIONS

- Office equipment
- Medical equipment
- Industrial machinery
- Mass transportation
- Food processing equipment
- Outdoor Controls
- Joystick Control

ORDERING INFORMATION:

Switch Function:
- **1** Momentary, Solder Terminal
- **A** Momentary, NO Wireleads
- **C** Momentary, NC Wireleads
- **E** Momentary, NO/NC Wireleads
- **2** Maintained, Solder Terminal
- **B** Maintained, NO Wireleads
- **D** Maintained, NC Wireleads
- **F** Maintained, NO/NC Wireleads

Bezel Type:
- **RB** Round, Black
- **SB** Square, Black

LED Color:
- **N** None
- **G** Green
- **R** Red
- **B** Blue
- **W** White
- **Y** Yellow

Button Color:***
- **(H)RD** Red
- **(H)GR** Green
- **(H)BK** Black
- **(H)BL** Blue
- **(H)YL** Yellow
- **(H)CR** Chrome
- **(H)OR** Orange
- **PK** Power/ Standby Black
- **NO** No Button Assy'

Mounting Type:
- **B** Bushing
- **F** Snap-Fit

Voltage Resistor:
- If Blank*
- **05** 5V Forward
- **12** 12V Forward**
- **24** 24V Forward**

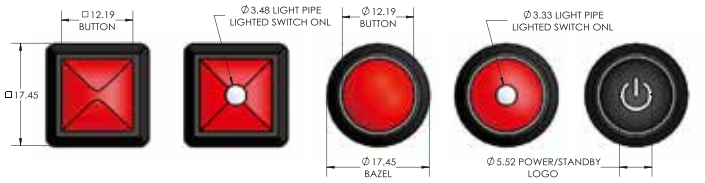
Special Request:
- If Blank N/A
- **xxx** Customer Special Request

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* Current limiting resistor is required to limit LED forward current to 20mA.(not included)
** 12 and 24V resistors are available with wirelead versions only.
*** (H) means High Button type.

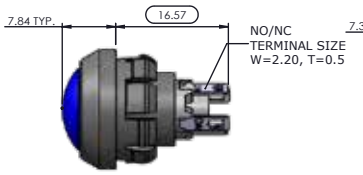
SERIES SA48: 12MM SEALED 5 AMP PUSHBUTTON SWITCHES

PRODUCT DRAWINGS

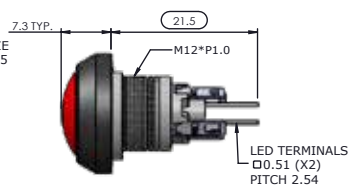


MOMENTARY TYPE

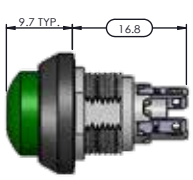
NON-ILLUMINATION & SNAP-IN TYPE



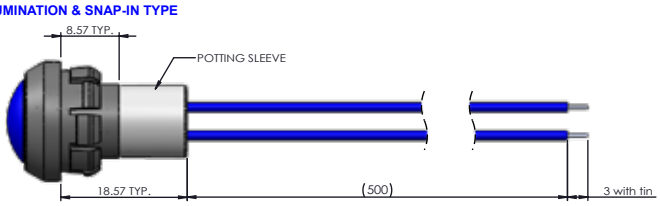
ILLUMINATION & BUSHING TYPE



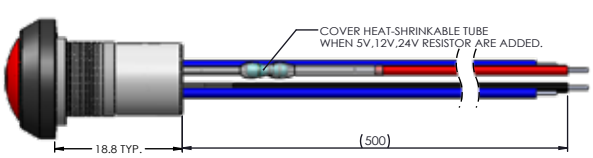
NON-ILLUMINATION & HIGH BUTTON TYPE



NON-ILLUMINATION & SNAP-IN TYPE

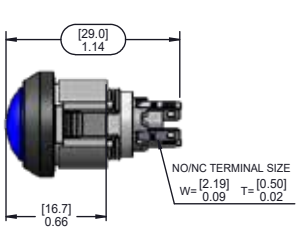


ILLUMINATION & BUSHING TYPE

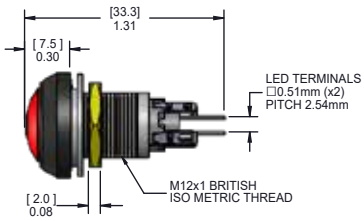


MAINTAINED TYPE

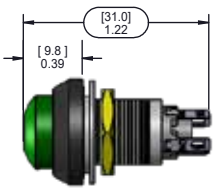
NON-ILLUMINATION & SNAP-IN TYPE



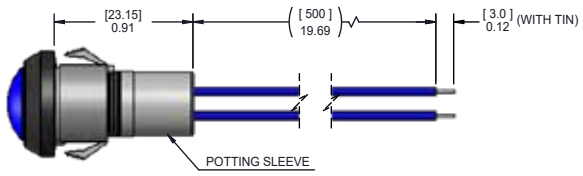
ILLUMINATION & BUSHING TYPE



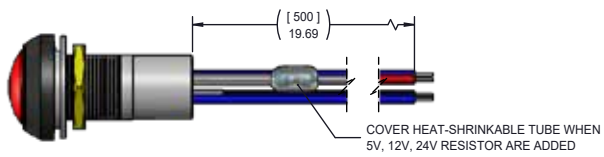
NON-ILLUMINATION & HIGH BUTTON TYPE



NON-ILLUMINATION & SNAP-IN TYPE



ILLUMINATION & BUSHING TYPE



MECHANICAL / ELECTRICAL CHARACTERISTICS:

Circuit:
SPDT-DB (Form X)

Pretravel (Nominal):
0.050 inches [1.27mm]

Overtravel (Nominal):
0.010 inches [0.25mm]

Total Travel (Nominal):
0.060 inches [1.52mm]

Operating Force (Nominal):
5.15N [525g]

Release Force (Nominal):
3.45N [340g]

Panel Thickness:
Bushing Mount:
0.020" - 0.118" [0.5 - 3.0mm]
Snap-In Mount:
0.051" - 0.118" [1.5 - 3.0mm]

Contacts:
Silver

Nut Torque Force:
Max 5.2 lb-in [6 kgf-cm]

Actuator Ingress Protection:
IP67 (Front Panel)

Operating Temperature:
-40˚ to +185˚F [-40˚ to +85˚C]

Current Ratings (Nominal):
5A@ 28 VDC ,25k Cycles
5A@ 125/250 VAC, 25k Cycles

ELECTRO-MEHANICAL:

Dielectric Strength:
1,000 VAC

Insulation Resistance:
1GΩ

Contact Resistance:
Max 50mΩ (Non-Wirelead)
Max 250mΩ (Wirelead)

LED CODE	LED COLOR	CIRCUITRY	Vf (VDC)	If (mA)
R	RED		1.8~2.5	20
B	BLUE		2.8~3.5	20
G	GREEN		2.8~3.5	20
Y	YELLOW		1.8~2.5	20
W	WHITE		2.8~3.5	20

Notes:
1.) Lead Soldering Temperature (4mm above from body) : 280˚C for 5 seconds
2.) Hand Soldering Temperature (4mm above from body) : 320˚C for 3 seconds

WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL		LED	
		NO	NC	+	-
ILLUMINATION	AWG24 / UL1007	BLUE	YELLOW	RED	BLACK
NON-ILLUMINATION		BLUE	YELLOW	-	-

Designs and specifications are subject to change without notice due to product improvement.