19MM PANEL SEALED 5 AMP PUSHBUTTON SWITCHES

Series SA48M

The ITW SA48M series pushbutton built on the proven series SA48 platform these rugged switches come in stainless steel or Zine alloy chrome plated housing with either momentary or maintained action and lighted or unlighted versions. These 5 AMP sealed switches have a positive snap action feel. They are ideal for rugged applications that good looks and long life.

KEY FEATURES:

Size	19mm
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
Housing Material	Stainless / Zinc Alloy
Snap Action	Momentary / Maintained
Illumination	Green/ Red/ Blue/ White/ Yellow

APPLICATIONS

- Outdoor Controls
- Medical Equipment
- Industrial Machinery
- Security Equipment
- Food Processing Equipment
- Office Equipment
- Kiosks

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

Housing Material:
- **1** Stainless Steel
- **2** Zinc Alloy, Chrome Plated

Illumination:
- **0** Non-Illumination
- **1** Center Spot Illumination
- **2** Ring Illumination
- **3** Power/ Standby Illumination

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

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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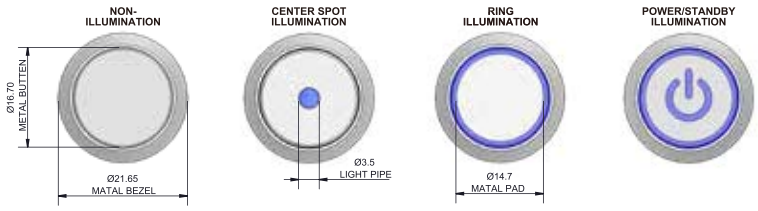
* Current limiting resistor is required to limit LED forward current to 20mA.(not included)

** 12 and 24V resistors are available with wirelead versions only.

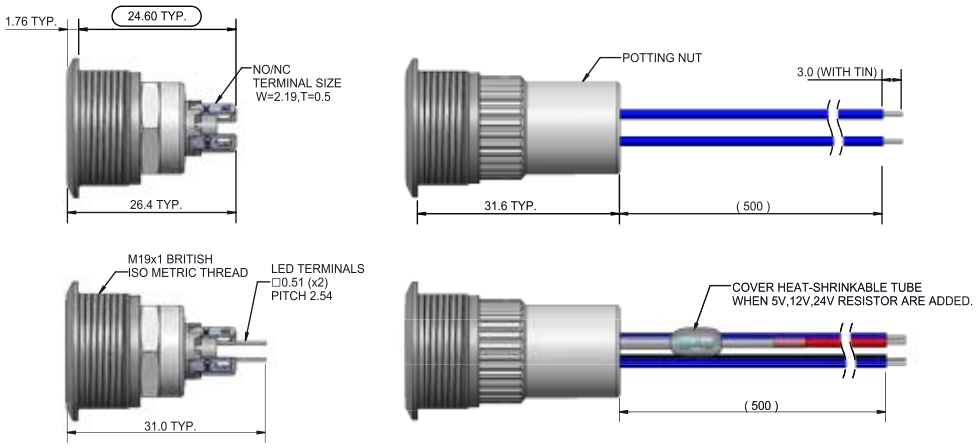
Contact an Authorized Distributor or Factory for Pricing

SERIES SA48M: 19MM SEALED 5 AMP PUSHBUTTON SWITCHES

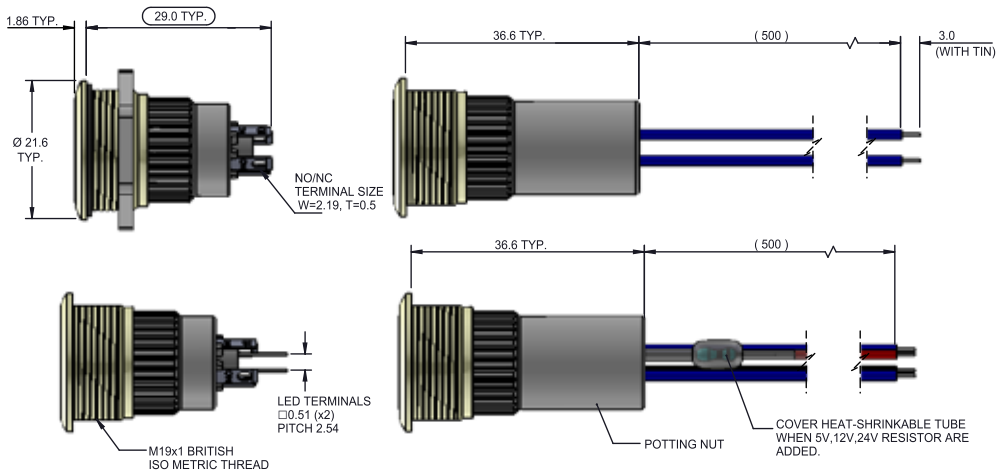
PRODUCT DRAWINGS



MOMENTARY TYPE



MAINTAINED 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:
0.020" - 0.177" [0.5 - 4.5mm]

Contacts:
Silver

Nut Torque Force:
Max 10 lb-in [11.5 kgf-cm]

Actuator Ingress Protection:
IP67 (Front Panel)

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

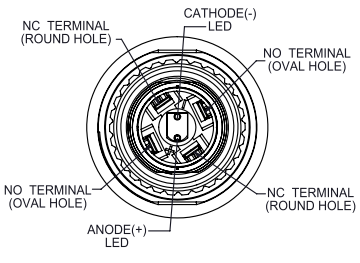
Current Ratings (Nominal):
5A@ 28 VDC

ELECTRO-MEHANICAL:

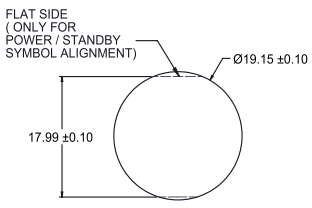
Dielectric Strength:
1,000 VAC

Insulation Resistance:
1GΩ

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



DETAIL FOR TERMINAL POSITION



RECOMMENDED PANEL CUT-OUT

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.

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS
800.544.3354