16MM PANEL SEALED 5 AMP PUSHBUTTON SWITCHES

Series SA57M

The ITW 5 Amp SA57M series is a miniature switch designed for rugged environments. The SA57M switches are available with stainless steel or Zine alloy chrome plated material options. These switches are IP67-rated with 5A, 28VDC electrical current rating. Applications include security equipment, industrial control, medical equipment, office equipment, etc.



KEY FEATURES:

Size	16mm
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
Housing Material	Stainless / Zinc Alloy
Snap Action	Momentary / Maintained
Illumination	Green/ Red/ Blue/ White/ Yellow

APPLICATIONS

- Security Equipment
- Industrial Control
- Medical Equipment
- Marine
- Food Processing Equipment
- Office Equipment
- Transportation

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** Zinc Alloy, Chrome Plated
- **3** Zinc Alloy, Matt Black
- **4** Stainless Steel, Natural

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**

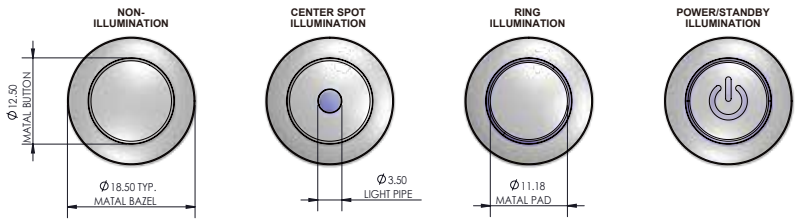
Special Request:
If Blank N/A
- **xxx** Customer Special Request

SA57M - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

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

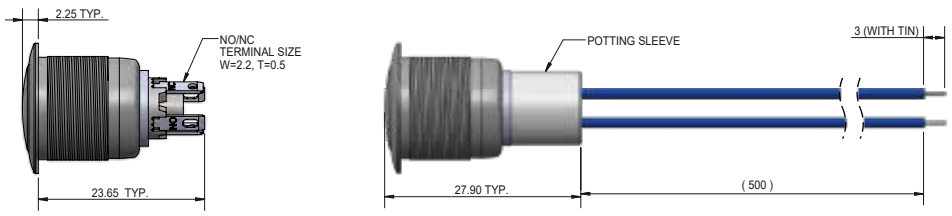
SERIES SA57M: 16MM SEALED 5 AMP PUSHBUTTON SWITCHES

PRODUCT DRAWINGS

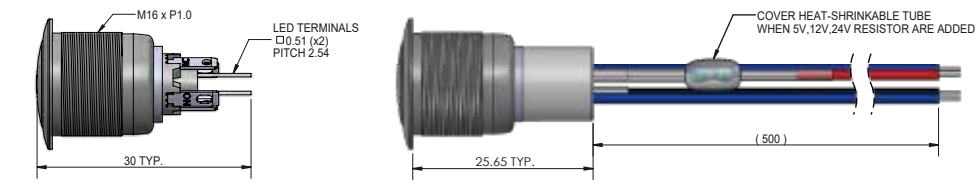


MOMENTARY TYPE

NON-ILLUMINATION TYPE

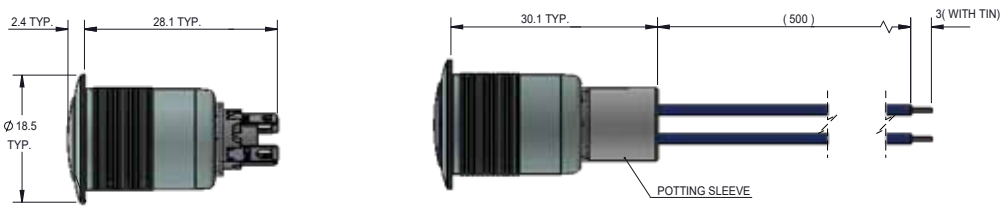


ILLUMINATION TYPE

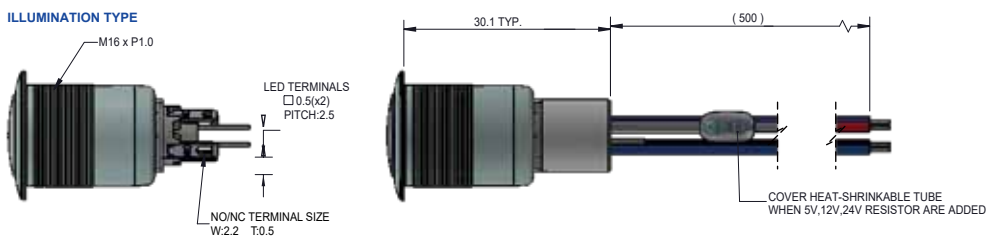


MAINTAINED TYPE

NON-ILLUMINATION TYPE



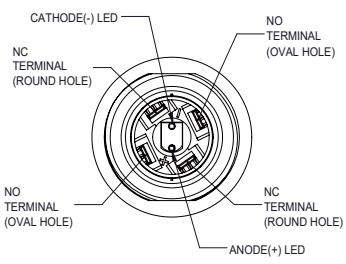
ILLUMINATION TYPE



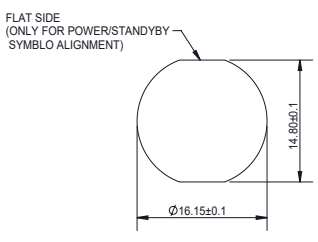
LED CODE	LED COLOR	CIRCUITRY	Vf (VDC)	If (mA)
R	RED		1.8~2.5	20
B	BLUE		2.8~3.5	20
G	GREEN		2.8~3.5	20
Y	YELLOW		1.8~2.5	20
W	WHITE		2.8~3.5	20

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	-	-



DETAIL FOR TERMINAL POSITION



RECOMENDED PANEL CUT-OUT

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" - 0.236" [0.5 - 6.0mm]

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)

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