#### **12mm Miniature Panel Sealed Metal Switches**

The 12M is a miniature switch designed for rugged environments. The housing is stainless steel and aluminum alloy. It is available as maintained or momentary action, electro-mechanical operation with Gold or Silver plated contacts and terminals. It is ideal for a multitude of applications.

### **Applications**

- Communications
- Hand-held Control Modules
- Security Equipment
- Food Processing
- Industrial Machinery
- Outdoor Controls
- Transportation: Mass-transit, Lift Truck

#### **Key Features:**

- Momentary or Maintained Action
- Stainless Steel/ Aluminum Housing
- Ring Illumination
- · Variety of LED Colors

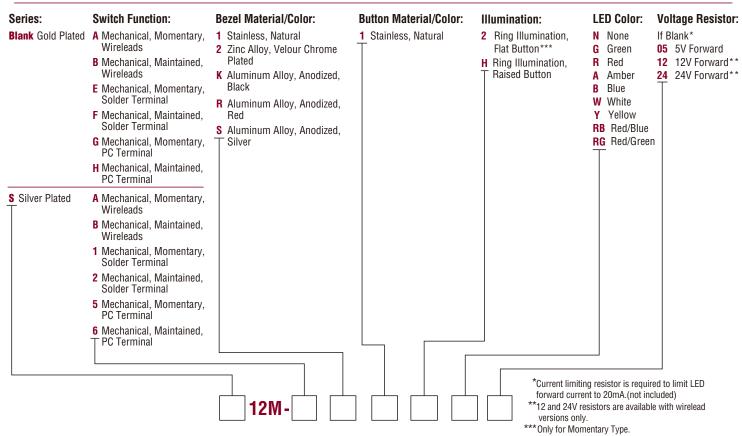
#### **ORDERING INFORMATION:**



Series 12M

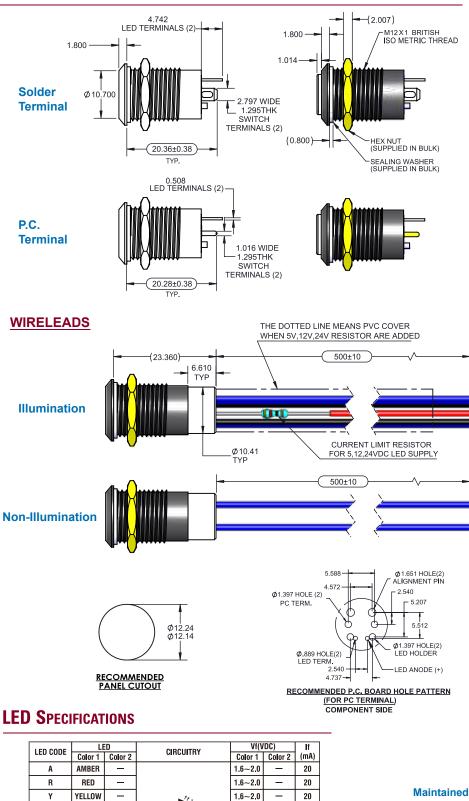


- Panel Sealed to IP67
- Gold or Silver Plated
- Solder, PC Terminal



### www.itwswitches.com

# SERIES 12M: 12MM MINIATURE PANEL SEALED METAL SWITCHES PRODUCT DRAWINGS



2.8~3.4

2.8~3.4

2.8~3.4

1.6~2.0

1.6~2.0

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2.8~3.4

2.8~3.4

# **PUSHBUTTON SWITCHES**

# **Mechanical Characteristics:**

Circuit: SPST-NO-DB (Form X) Button Travel (Nominal): 0.099inches [2.5mm] Operating Force (Nominal): 3N [306g] Contact Bounce (Nominal): 1ms Panel Thickness: 0.020" - 0.236" [0.5 - 6.0mm] Nut Torque Force: Max 5.2 Ib-in [6 kgf-cm]

## **ENVIRONMENTAL SPECIFICATIONS:**

Actuator Ingress Protection: IP67 (Front Panel) Operating Temperature: Non-illumination type: -40° to +185° F [-40° to +85° C] Illumination type: -13° to +185° F [-25° to +85° C]

### **ELECTRICAL SPECIFICATIONS:**

**Current Ratings: (Momentary)** 12M Series: 250mA@12VDC, 100k Cycles 150mA@28VDC, 150k Cycles 100mA@48VDC, 100k Cycles 10mA@12VDC, 1000k Cycles S12M Series: 10mA@12VDC, 200k Cycles **Current Ratings: (Maintained)** 12M Series: 50,000 Cycles Nominal S12M Series: 20,000 Cycles Nominal **Dielectric Strength:** 1,000 VAC Insulation Resistance: 1GO **Contact Resistance:** Max 50mΩ (intial) Momentary







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

В

G

w

RB

RG

Notes:

BLUE

GREEN

WHITE

RED

RED

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BLUE

GREEN

Color 1

1.) Lead Soldering Temperature (4mm form body) : 280°C for 5 seconds 2.) Head Soldering Temperature (4mm form body) : 320°C for 3 seconds

Color

800.544.3354