



SERIES W50 SERIES WG50 - PUSHBUTTON SWITCHES



Series W50

KEY FEATURES

- Size: 16mm
- SPST-NO-DB
- Plastic Housing
- Snap Action: Momentary / Maintained
- IP67 water proof
- Gold Plated Contacts

APPLICATIONS

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

ORDERING INFORMATION

W [] 50-[]-[]-[]-[]-[]-[]-[]-[]

Series:
Blank Gold Contact IP67
G Silver Contact IP67/2A

Switch Function / Termination:
1 Momentary, Solder
2 Maintained, Solder
A Momentary, Wire Leads
B Maintained, Wire Leads

Housing Type:
RBK Round, Black

LED Color:
N None
R Red
G Green
Y Yellow
A Amber
B Blue
W White
RG Red/Green
RB Red/Blue

Button Color:
RD Red
GR Green
BK Black
BL Blue
YL Yellow
OR Orange

Mounting Type:
B Bushing

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

Special Request:
If Blank: N/A

XXX | Customer Special Request

Note:

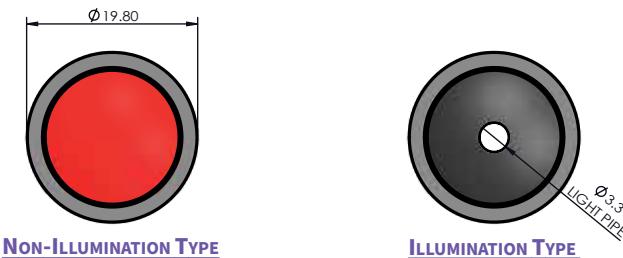
* Current limiting resistor is required to limit LED forward current to 20mA.(not included)

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

*** Only for non-illumination, Aluminum Housing.

SERIES W50 - PUSHBUTTON SWITCHES

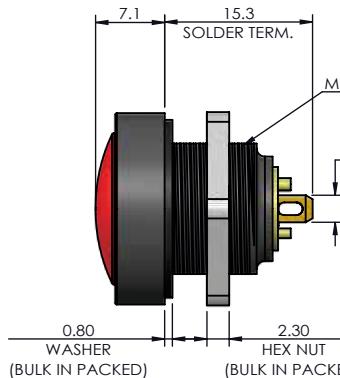
ITW SWITCH
LUMEX®



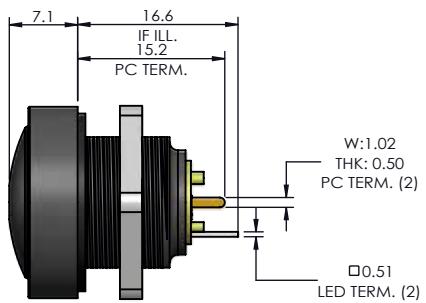
NON-ILLUMINATION TYPE

ILLUMINATION TYPE

W50/WG50 SERIES

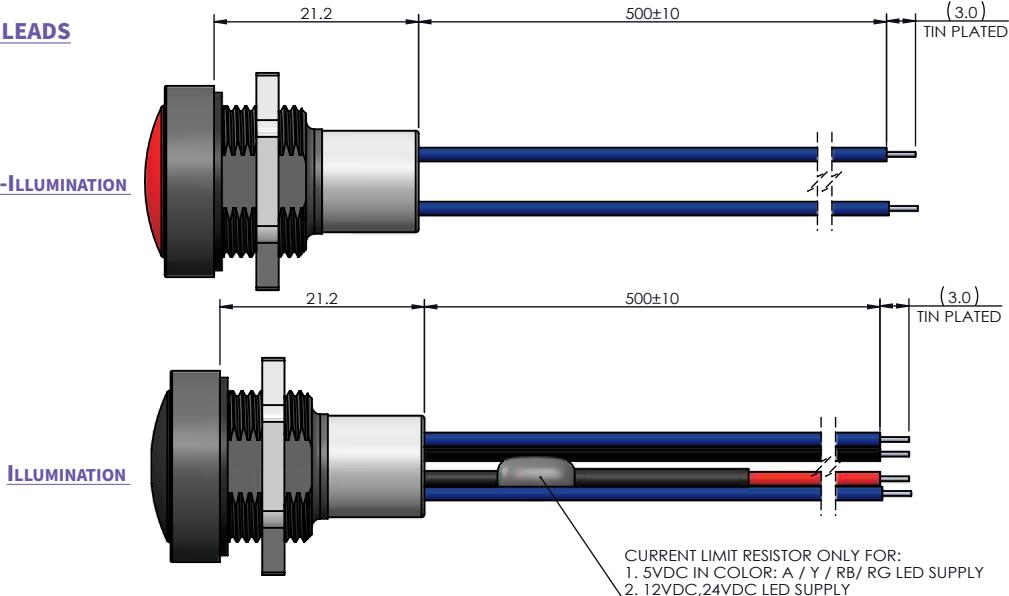


Non-Illumination
& Solder Terminal



Illumination
& PC Terminal

WIRELEADS



RECOMMENDED PANEL CUT-OUT	
PANEL THICKNESS	0.020~0.117" [0.5~3.0 mm]
NUT TORQUE FORCE	Max. 5.2 lb-in [6.0 kgf-cm]

MECHANICAL CHARACTERISTICS

- **Switch Circuitry:** SPST-NO-DB (Form X)
- **Button Travel (Nominal):** 0.090 inches [2.30mm]
- **Operating Force (Nominal):** 3N [306g]
- **Contact Bounce (Nominal):** 1ms
- **Contacts Material:**
 - W50:** Gold Plated
 - WG50:** Silver Plated
- **Panel Thickness:** 0.020" - 0.118" [0.5 - 3.0mm]
- **Nut Torque Force:** Max 5.2 lb-in [6 kgf-cm]
- **Current Ratings (Nominal):**
 - W50 (Momentary)** 10mA @ 12VDC, 1000k Cycles
 - W50 (Maintained)** 10mA @ 12VDC, 50K Cycles

- WG50 (Momentary)**
2A @ 24VDC, 40k Cycles
- WG50 (Maintained)**
2A @ 24VDC, 20K Cycles

ENVIRONMENTAL SPECIFICATIONS

- **Operating Temperature:**
 - Momentary:** -40°F to +185°F (-40°C to +85°C)
 - Maintained:** -40°F to +149°F (-40°C to +65°C)
- **Water Proof:** IP67 (Front Panel)

ELECTRICAL SPECIFICATIONS

- **Dielectric Strength:** 1,000VAC
- **Insulation Resistance:** 1G Ω
- **Contacts Resistance:** 50 mΩ max. (Non-Wirelead)
250 mΩ max. (Wirelead)
- **Wireleads:** UL Style 1007
26 AWG, Stranded

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