



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:		Switch Function / Termination:		Housing Type:		LED Color:		Button Color:		Mounting Type:		Voltage Resistor:		Special Request:	
Blank	Gold Contact IP67	1	Momentary, Solder	RBK	Round, Black	N	None	RD	Red	B	Bushing	If Blank: Note*		If Blank: N/A	
G	Silver Contact IP67/2A	2	Maintained, Solder			R	Red	GR	Green			05	5V Forward	XXX	Customer Special Request
		A	Momentary, Wire Leads			G	Green	BK	Black			12	12V Forward**		
		B	Maintained, Wire Leads			Y	Yellow	BL	Blue			24	24V Forward**		
						A	Amber	YL	Yellow						
						B	Blue	OR	Orange						
						W	White								
						RG	Red/Green								
						RB	Red/Blue								

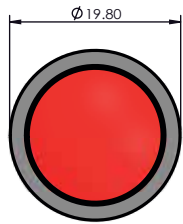
Note:

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

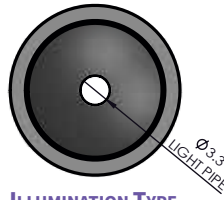
** 12 and 24V resistors are available with wirelead versions only.

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

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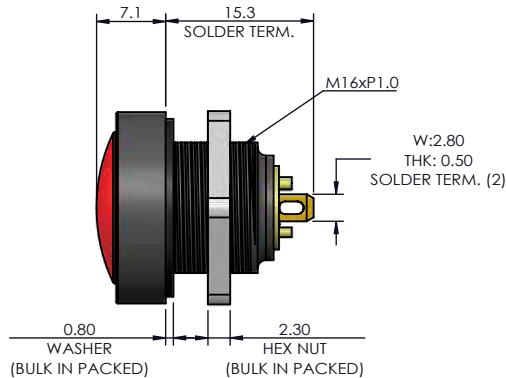


Non-ILLUMINATION TYPE

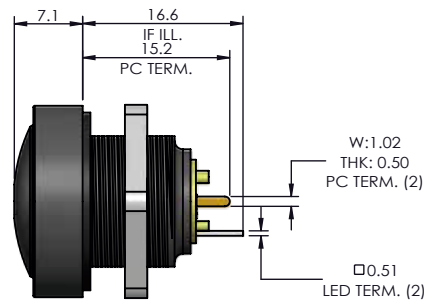


ILLUMINATION TYPE

W50/WG50 SERIES



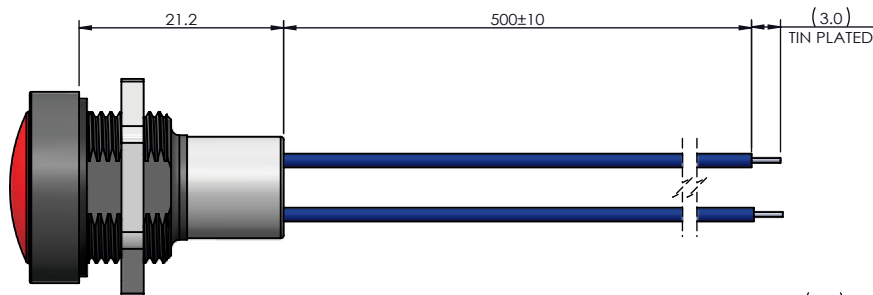
**Non-ILLUMINATION
& SOLDER TERMINAL**



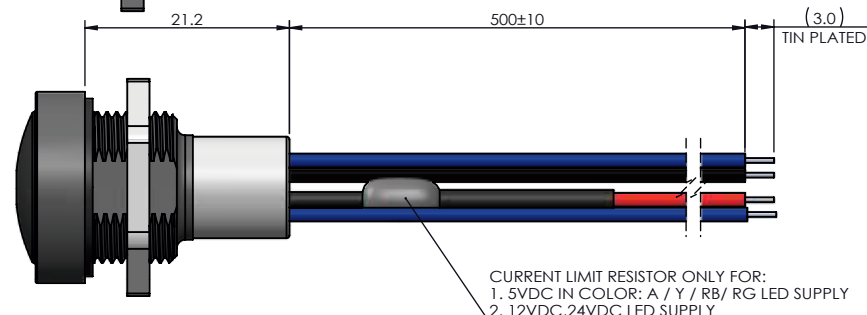
**ILLUMINATION
& PC TERMINAL**

WIRELEADS

Non-ILLUMINATION



ILLUMINATION



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

ENVIROMENTAL 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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