



SERIES WSA48M - PUSHBUTTON SWITCHES



Series WSA48M

KEY FEATURES

- Size: 19mm
- SPDT : 1NO / 1NC
- Mechanical Life: 25k Cycle Nominal
- Snap Action: Momentary / Maintained
- Operation temperature: -40 ~ 85°C
- Stainless Steel / Zinc Alloy Housing
- IP67 water proof
- 5A / 28VDC with UL 61058

APPLICATIONS

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

ORDERING INFORMATION

WSA48M - - - - - -

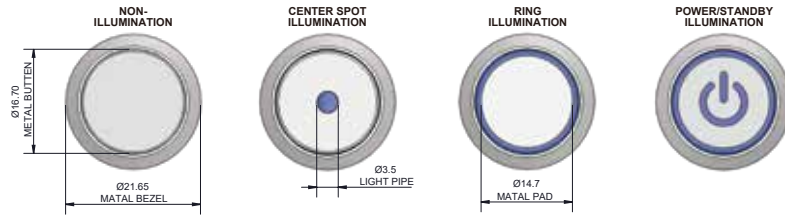
Switch Function / Termination:	Housing Material	Illumination:	LED Color:	Voltage Resistor:	Special Request:
1 Momentary, Solder	1 Stainless Steel, Natural	0 Non-illumination	N None	If Blank: Note*	If Blank: N/A
2 Maintained, Solder	2 Zinc Alloy, Velour Chrome Plated	1 Center Spot	R Red	05 5V Forward	xxx Customer Special Request
A Momentary, NO/NO Wireleads		2 Ring Illumination	G Green	12 12V Forward**	
B Maintained, NO/NO Wireleads		3 Power / Standby Logo	Y Yellow	24 24V Forward**	
C Momentary, NC/NC Wireleads			B Blue		
D Maintained, NC/NC Wireleads			W White		
E Momentary, NC/NO Wireleads					
F Maintained / NC/NO Wireleads					

Note:

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

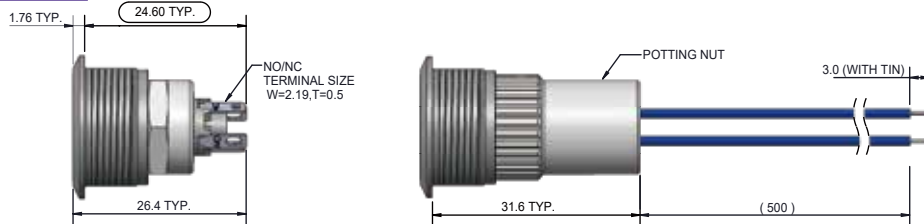
**12 and 24V resistors are available with wirelead versions only.

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MOMENTARY TYPE

Non-ILLUMINATION

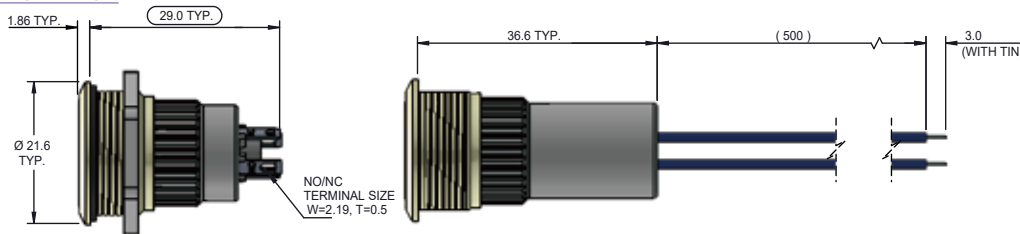


ILLUMINATION

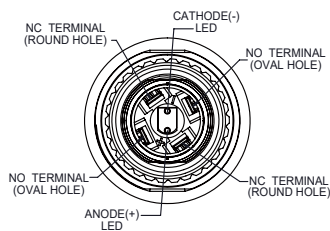
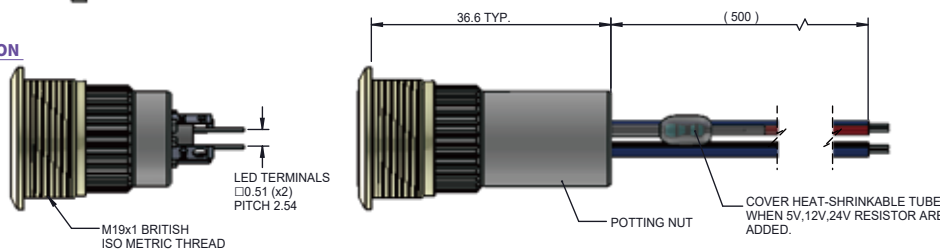


MAINTAINED TYPE

Non-ILLUMINATION



ILLUMINATION



DETAIL FOR TERMINAL POSITION

RECOMMENDED PANEL CUT-OUT	FLAT SIDE (ONLY FOR POWER / STANDBY SYMBOL ALIGNMENT)	
	Ø19.15 ±0.10	
	17.99 ±0.10	
PANEL THICKNESS	0.020~0.177" [0.5~4.5 mm]	
NUT TORQUE FORCE	Max. 10 lb-in [11.5 kgf-cm]	

MECHANICAL CHARACTERISTICS

- Switch Circuitry: 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]
- Contacts Material: Silver
- Panel Thickness: 0.020" - 0.177" [0.5 - 4.5mm]
- Nut Torque Force: Max 10 lb-in [11.5 kgf-cm]
- Current Ratings (Nominal): 5A @ 28VDC

ENVIROMENTAL SPECIFICATIONS

- Operating Temperature: -40°F to +185°F (-40°C to +85°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)

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	SW TERMINAL		LED	
	NO	NC	+	-
ILLUMINATION	BLUE AWG24 UL1007	YELLOW AWG24 UL1007	RED AWG26 UL1007	BLACK AWG26 UL1007
NON-ILLUMINATION	BLUE AWG24 UL1007	YELLOW AWG24 UL1007	-	-