

WG48- X - XX - X - X - X - X - X

SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION
1	MOMENTARY SOLDER TERMINAL
2	MAINTAINE SOLDER TERMINAL
A	MOMENTARY WIRELEADS
B	MAINTAINE WIRELEADS

BEZEL CODE	BEZEL DESCRIPTION
RB	ROUND, BLACK
SB	SQUARE, BLACK (ONLY FOR BUSHING MOUNTING)

ILLUMINATION CODE	LED COLOR DESCRIPTION
N	NONE
R	RED
A	AMBER
Y	YELLOW
G	GREEN
B	BLUE
W	WHITE
RG	RED/BLUE
RB	RED/GREEN

BUTTON CODE (SEE NOTE 3)	BUTTON COLOR DESCRIPTION
(H)BK	BLACK
(H)RD	RED
(H)GR	GREEN
(H)BL	BLUE
(H)YL	YELLOW
(H)OR	ORANGE
(H)WH	WHITE
PK	POWER/STANDBY BLACK (ONLY FOR ROUND BEZEL & BUSHING MOUNT)

MOUNTING CODE	MOUNTING STYLE DESCRIPTION
B	BUSHING
F	SNAP FIT (ONLY FOR ROUND BEZEL)

LED VOLTAGE CODE		LED VOLTAGE DESCRIPTION
NON-WIRELEADS	IF BLANK	SEE LED SPEC.
	05	5V (SEE NOTE4)
WIRELEADS	IF BLANK	SEE LED SPEC.
	05	5V (SEE NOTE4.)
	12	12V
	24	24V

SLEEVE CODE	SLEEVE LENGTH
IF BLANK	STANDARD
D	SHORT

MECHANICAL CHARACTERISTICS:

SWITCH CIRCUITRY: SPST-NO-DB
SWITCH ACTION: MOMENTARY AND MAINTAINED (PER CHART)
BUTTON TRAVEL: 2.3mm NOMINAL
OPERATING FORCE: 3N [306g] NOMINAL
PANEL THICKNESS:
BUSHING MOUNT: 0.5 - 3.0mm
SNAP FIT MOUNT: : 1.0, 2.0, 3.0mm ± 0.05mm
CONTACTS: SILVER
NUT TORQUE FORCE: MAX 6 kgf-cm[5.2 LB-in]
ENVIRONMENTAL SPECIFICATIONS:
ACTUATOR INGRESS PROTECTION: IP67

LIFE(MECHANICAL):

MOMENTRAY: 1,000K CYCLES
MAINTAINED : 50K CYCLES

OPERATING TEMPERATURE:

MOMENTARY: -40 °C to +85 °C

MAINTAINED:-40 °C to +65 °C

ELECTRICAL SPECIFICATIONS

CURRENT RATINGS:

2A@24VDC

MOMENTARY: 40K CYCLES NOMINAL

MAINTAINED: 20K CYCLES NOMINAL

DIELECTRIC STRENGTH: 1,000VAC

INSULATION RESISTANCE: 1G OHM

CONTACT RESISTANCE:

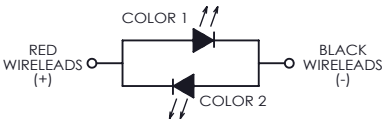
50m OHMS MAX INITIAL(NON-WIRELEADS)

250m OHMS MAX INITIAL(WIRELEADS)

CABLE: UL1007,AWG26

NOTE

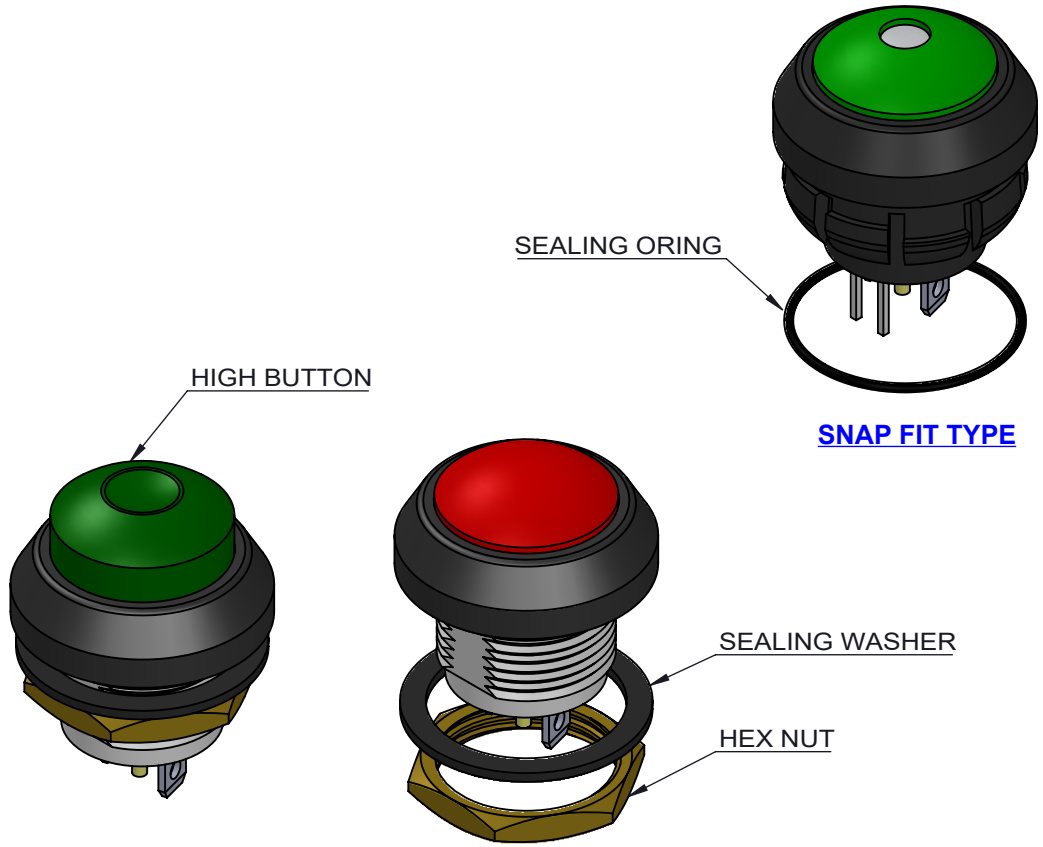
- 1.CURRENT LIMITING RESISTOR IS REQUIRED
TO LIMIT LED FORWARD CURRENT TO 20mA
2. SUPPLY HEX NUT AND SEALING WASHER BULK PACKED.
3. HIGH-BUTTON OPTION, DENOTED (H), ONLY AVAILABLE FOR
ROUND BEZEL AND NON-ILL.TYPE. OMIT (H) FOR STANDARD BUTTON.
- 4.INNER RESISTOR ONLY FOR LED :RED / BLUE / GREEN / WHITE.

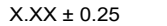
LED SPECIFICATION					
LED CODE	LED SINGLE COLOR		Vf(VDC)	If (mA)	CIRCUITRY 
			TYP.		
R	RED		2.0	20	
A	AMBER		2.0	20	
Y	YELLOW		2.0	20	
G	GREEN		3.0	20	
B	BLUE		3.1	20	
W	WHITE		3.3	20	
LED CODE	BICOLOR LED		Vf(VDC)	If (mA)	CIRCUITRY 
	COLOR1	COLOR2	TYP.		
RB	RED	BLUE	2.0(RED) 3.3(BLUE)	20	
RG	RED	GREEN	2.0(RED) 3.4(GREEN)	20	

Notes:

1.) Hand Soldering Temperature (4mmabove from Body) : 320°C for 3 seconds

WIRELEADS SPECIFICATION					
WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL		LED	
		/	O	+	-
ILLUMINATION	AWG26 / UL1007	BLUE	BLUE	RED	BLACK
NON-ILLUMINATION		BLUE	BLUE	--	--

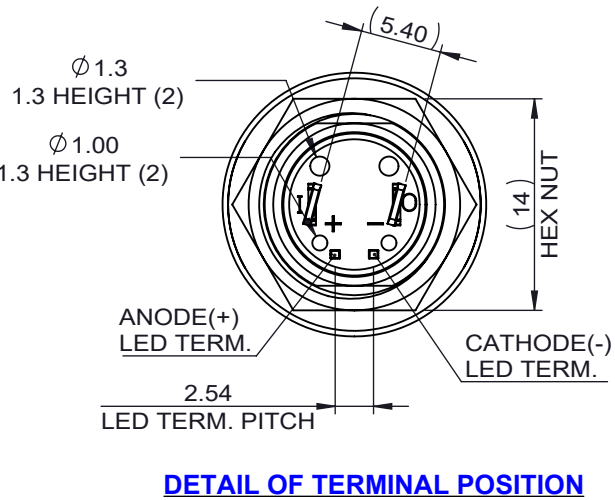
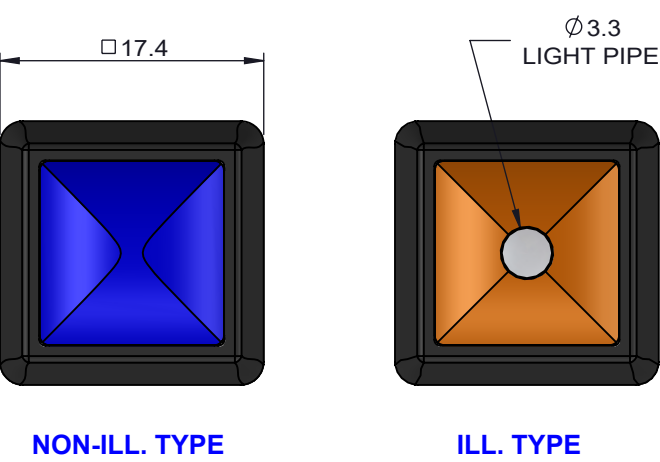
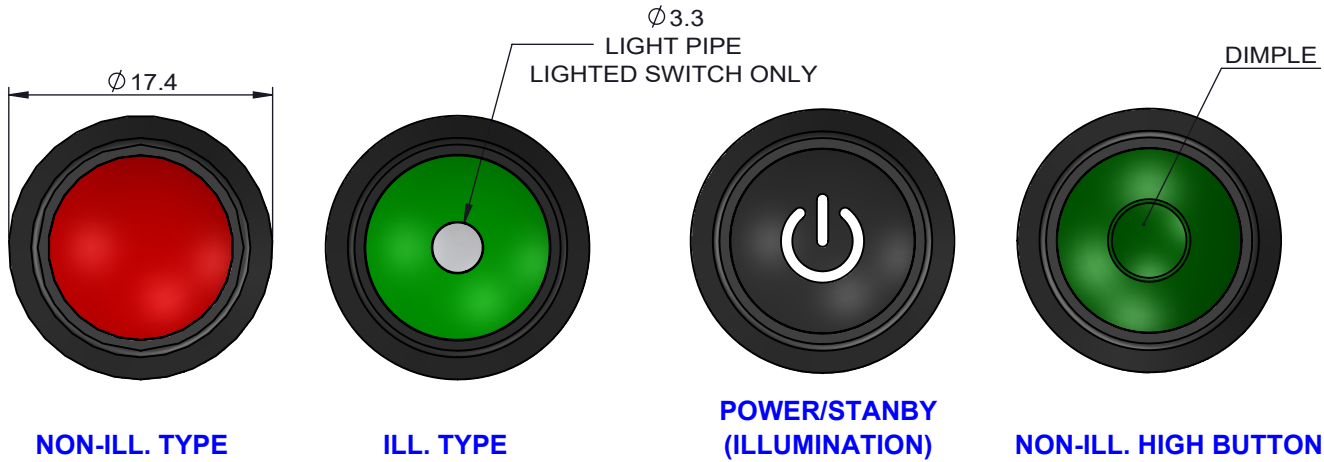


DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.25 ANGULAR ± 5°		DWG TITLE WG48-MECHANICAL MOMENTARY/MAINTAINED, SOLD.TERMINAL, WIRELEADS, NONE/CENTER SPOT/POWER- STANDBY ILLUMINATION					
STATUS RELEASE	REVIEW			DWG NO. WG48-1,2,A,B					
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	DATE 2010/3/11	REF: ---			☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 3:2		

BUSHING MOUNT

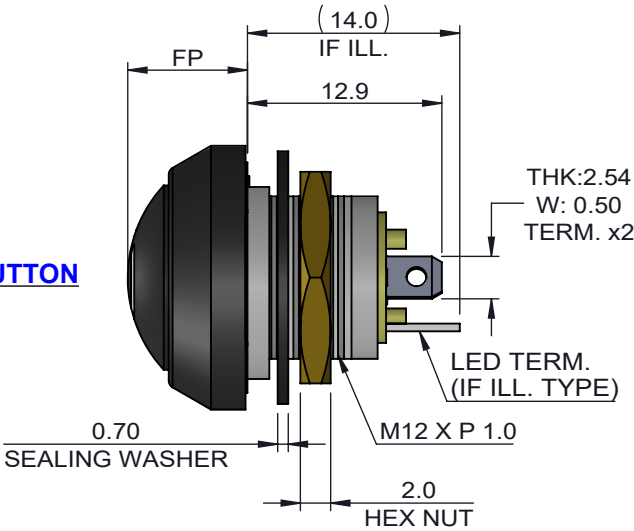
ROUND BEZEL

SQUARE BEZEL

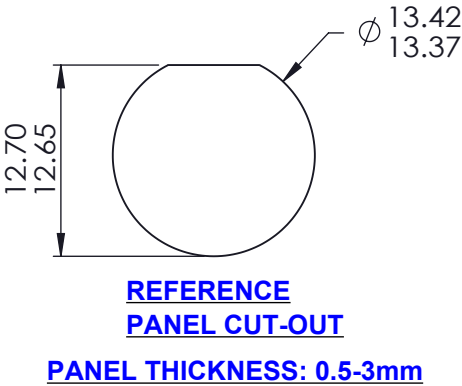
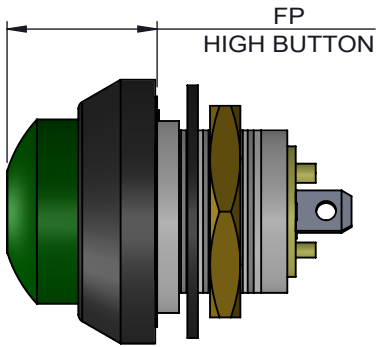


SWITCH ACTION	BUTTON TYPE	FP(mm)
MOMENTARY	NON-ILLUMINATION	8.0±0.5
	ILLUMINATION LIGHT PIPE BUTTON	7.6±0.5
	NON-ILLUMINATION HIGH BUTTON	9.9±0.5
MAINTAINED	NON-ILLUMINATION	6.5±0.5
	ILLUMINATION LIGHT PIPE BUTTON	6.0±0.5
	NON-ILLUMINATION HIGH BUTTON	8.4±0.5

STANDARD BUTTON

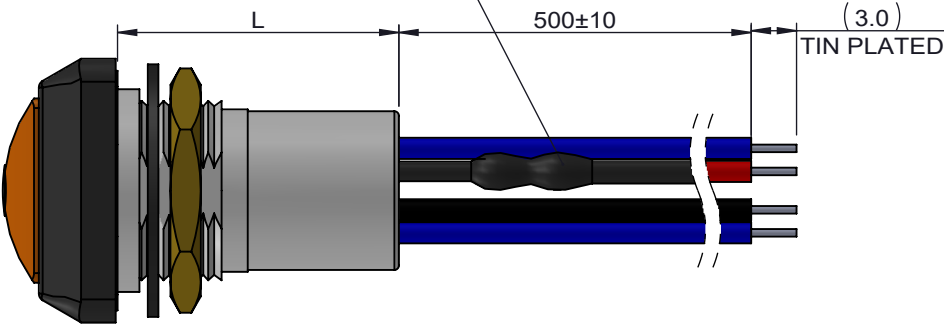
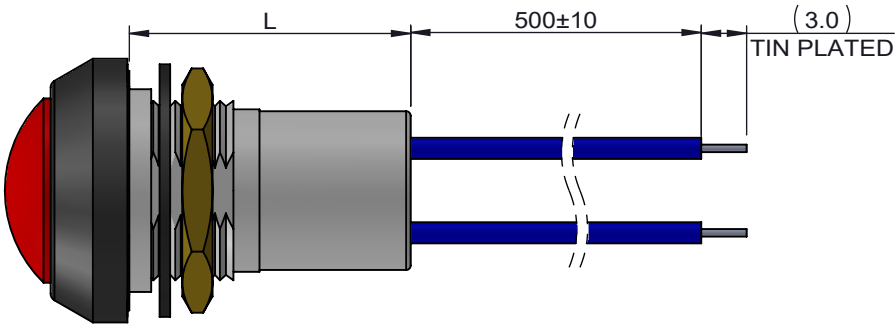


HIGH BUTTON



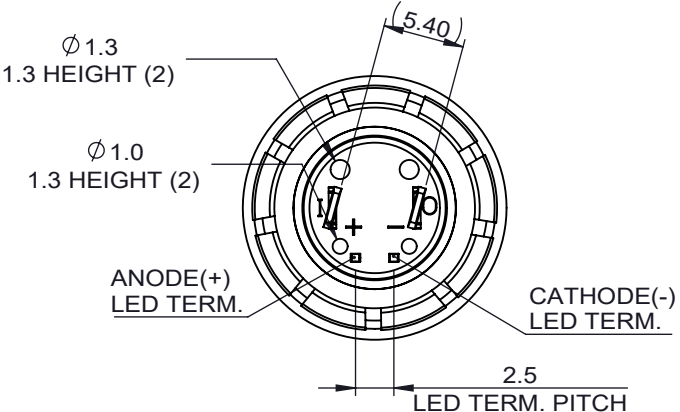
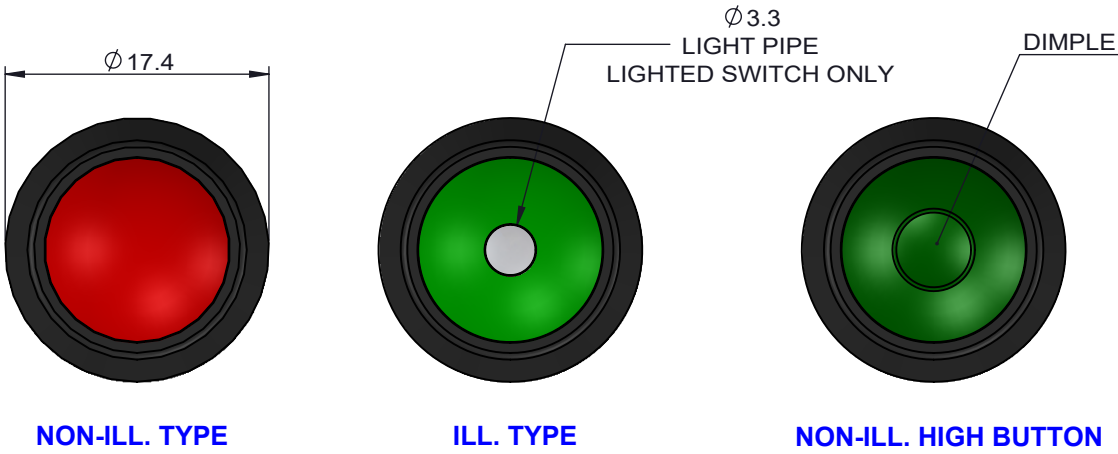
WIRELEADS

SLEEVE CODE	L(mm)
IF BLANCK (STANDARD)	18.6
D (SHORT)	15.2



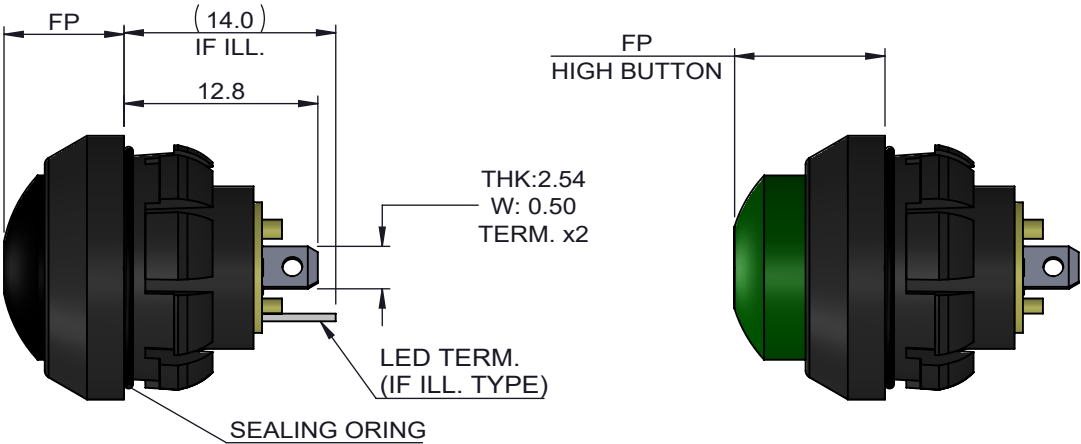
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SNAP FIT MOUNT



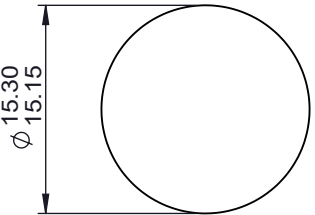
DETAIL OF TERMINAL POSITION

SWITCH ACTION	BUTTON TYPE	FP(mm)
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	ILLUMINATION LIGHT PIPE BUTTON	6.0±0.5
	NON-ILLUMINATION HIGH BUTTON	8.4±0.5



STANDARD BUTTON

HIGH BUTTON

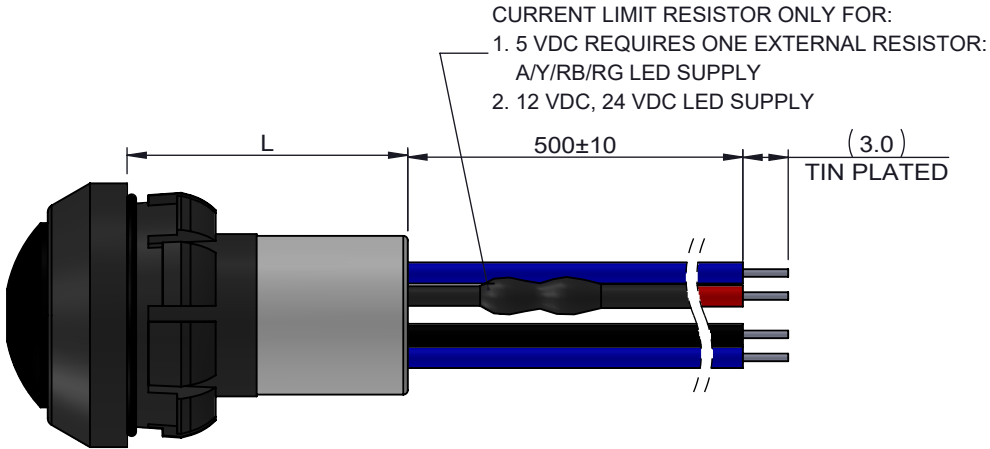
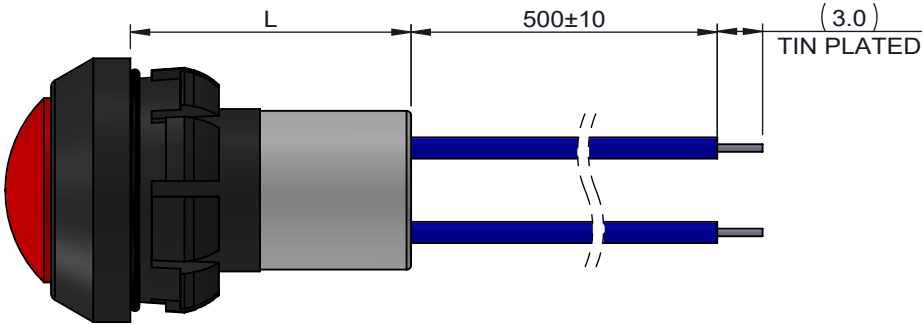


RECOMMENDED
PANEL CUT-OUT

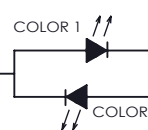
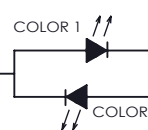
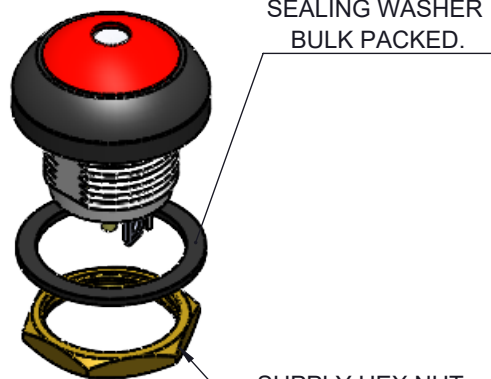
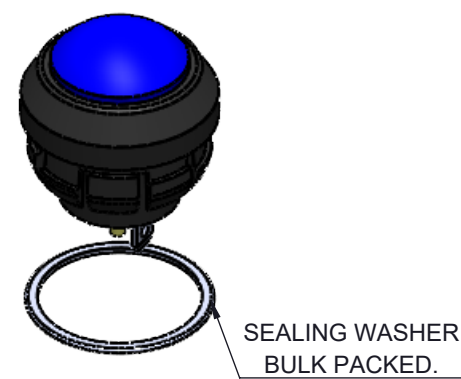
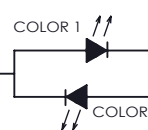
PANEL THICKNESS: 1.0mm , 2.0mm , 3.0mm±00.5

WIRELEADS

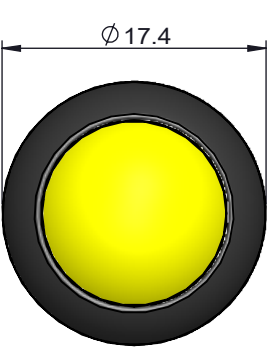
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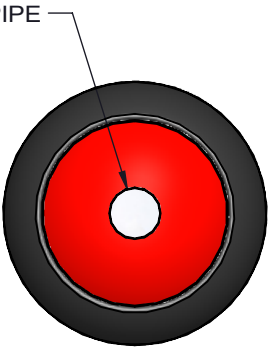
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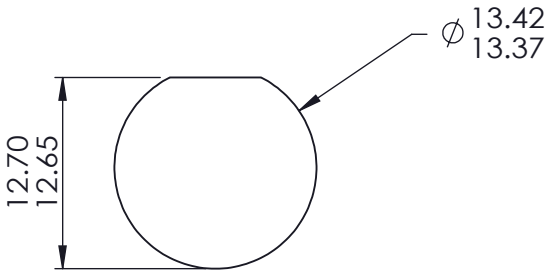
BUSHING MOUNTING



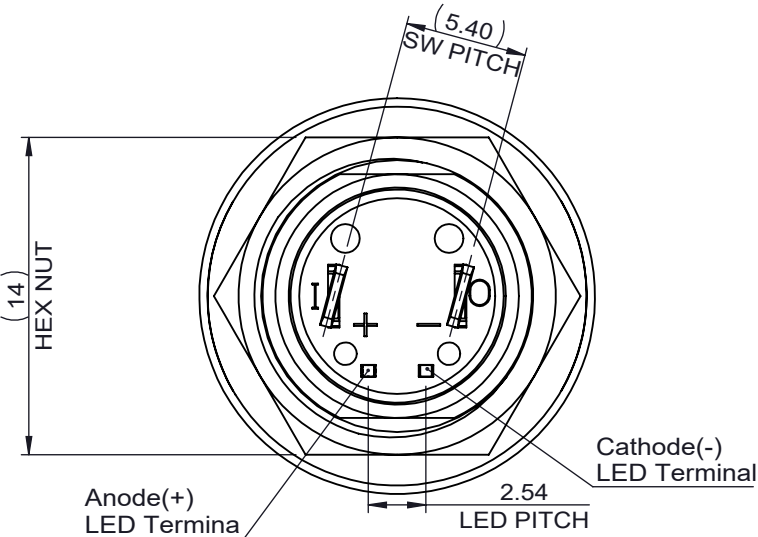
NONE-ILLUMINATION



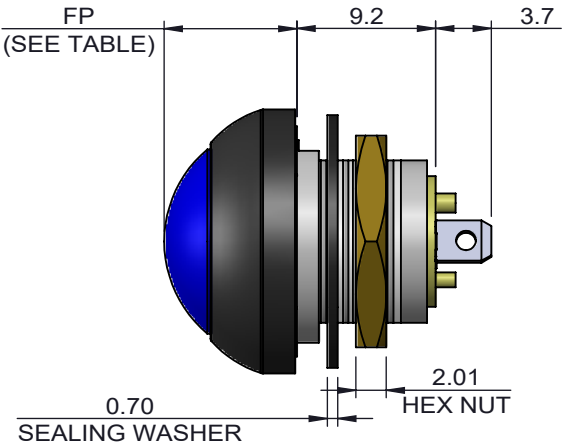
ILLUMINATION



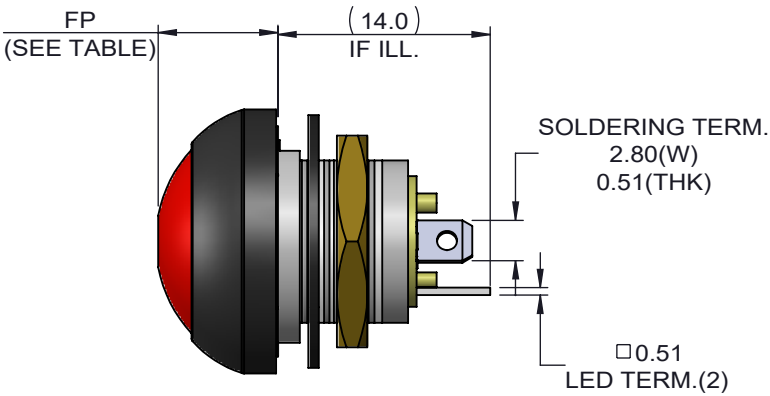
REFERENCE
PANEL CUT-OUT
BUSHING MOUNT



DETAIL FOR TERMINAL POSITION

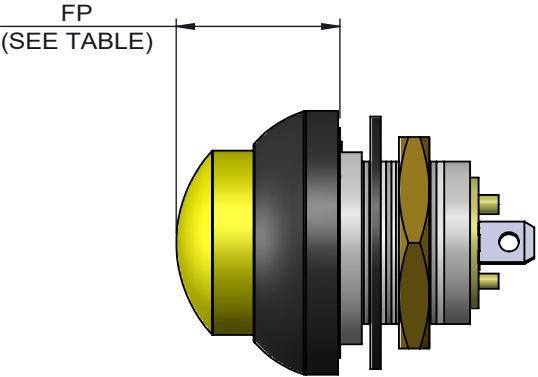


NONE-ILLUMINATION



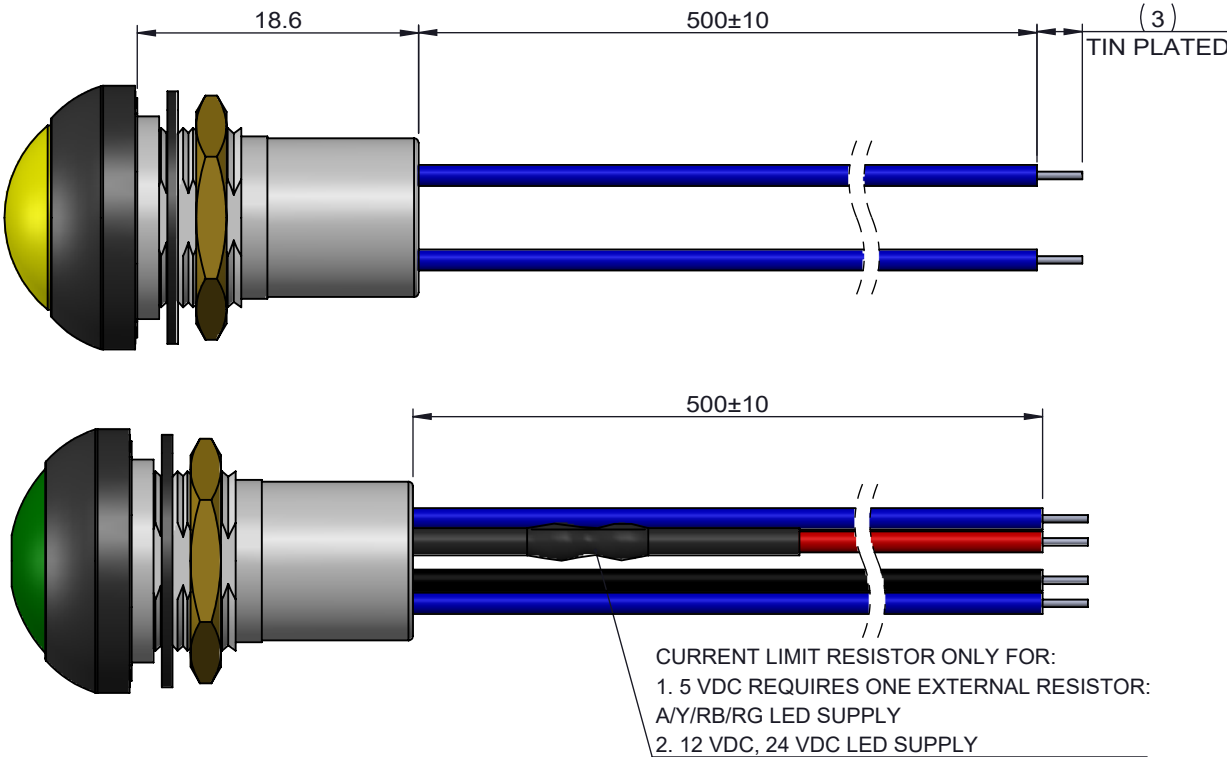
ILLUMINATION

BUTTON TYPE	FP(mm)
NON-ILLUMINATION	8.8±0.5
ILLUMINATION: LIGHT PIPE BUTTON	7.9±0.5
HIGH BUTTON	10.8±0.5



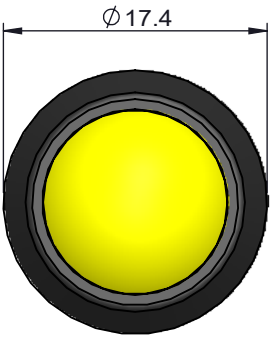
HIGH BUTTON
(ONLY AVAILABLE FOR ROUND BEZEL AND NON-ILL. TYPE)

WIRELEADS

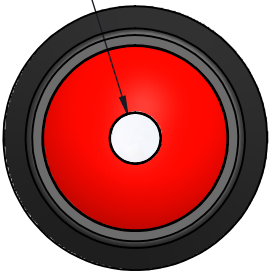


DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.25 ANGULAR ± 5°	DWG TITLE WG48-RM SERIES ,MECHANICAL MOMENTARY/MAINTAINED						
STATUS RELEASE	REVIEW <i>v.w.</i>		DWG NO. WG48-1,2,A,B-RM						
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		REF: ---	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 3:2	REV 3			

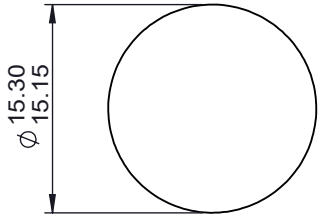
SNAP FIT MOUNTING



NONE-ILLUMINATION

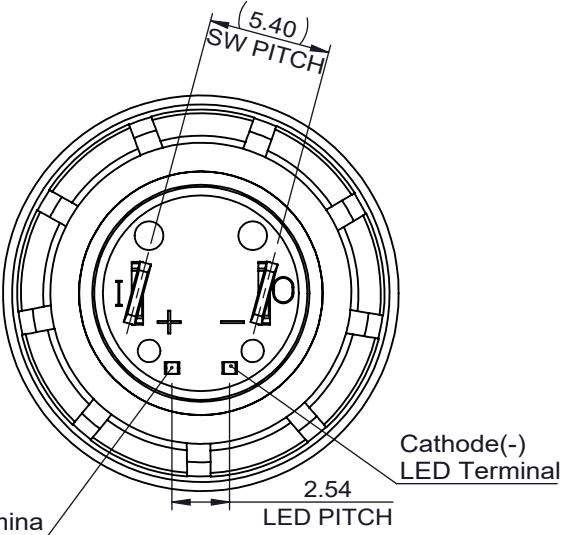


ILLUMINATION

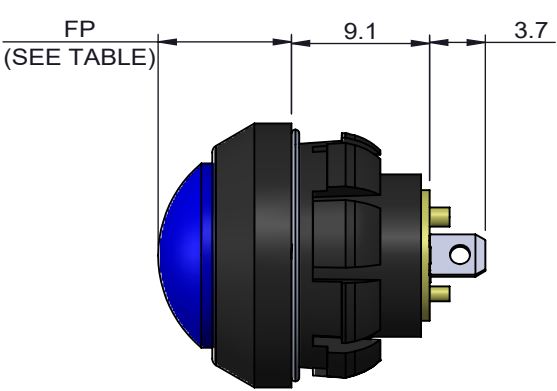


REFERENCE
PANEL CUT-OUT
SNAP FIT MOUNT

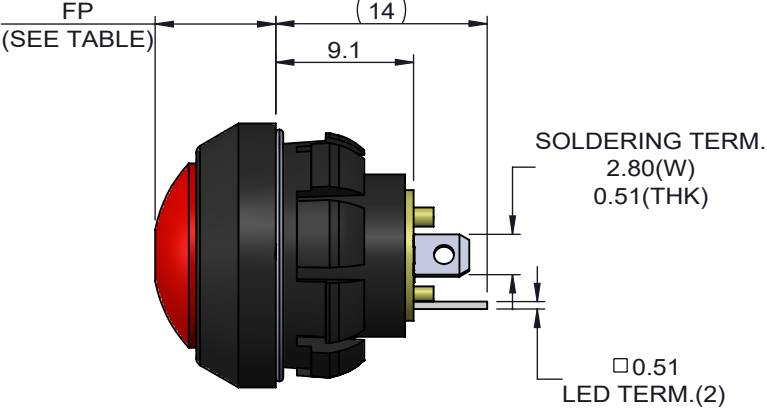
PANEL THICKNESS: 1.0mm , 2.0mm , 3.0mm ±00.5



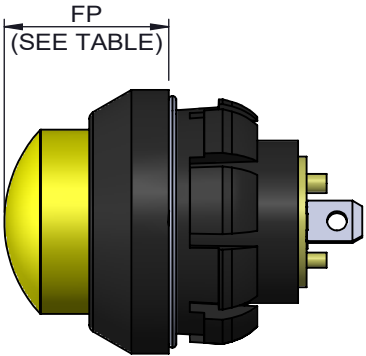
DETAIL FOR TERMINAL POSITION



NONE-ILLUMINATION



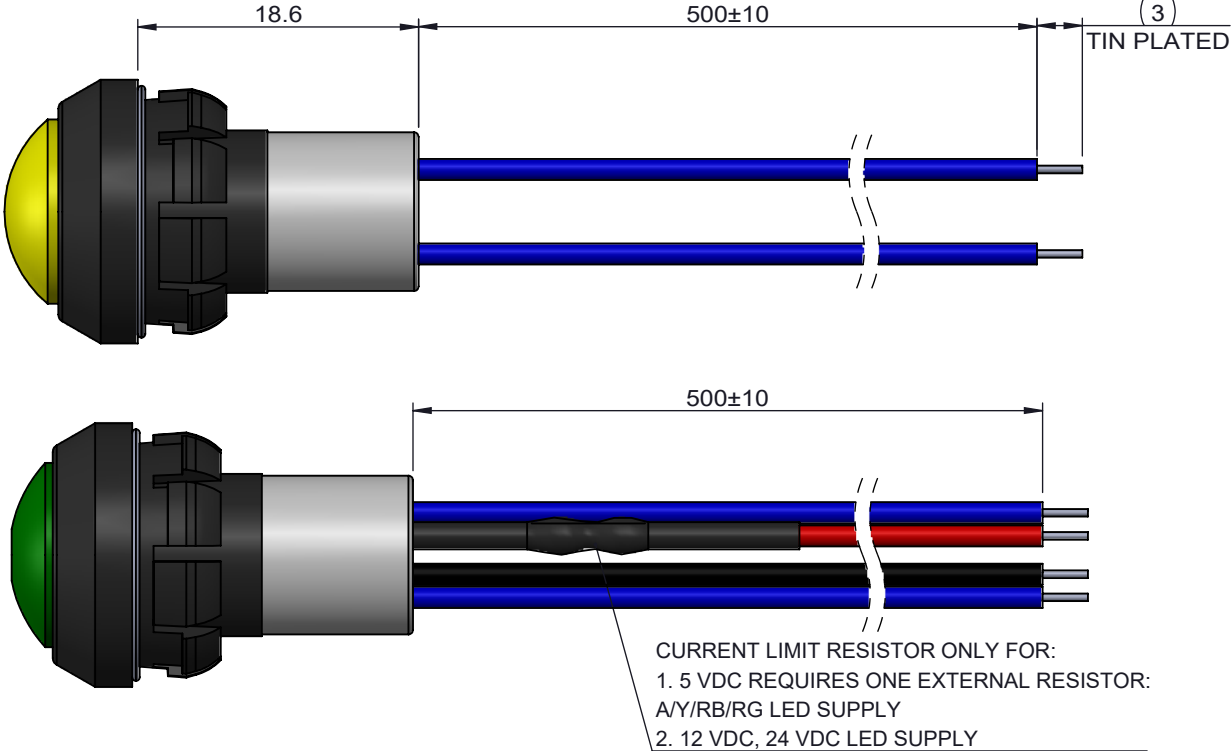
ILLUMINATION



HIGH BUTTON
(ONLY AVAILABLE FOR ROUND BEZEL AND NON-ILL. TYPE)

BUTTON TYPE	FP(mm)
NON-ILLUMINATION	8.8±0.5
ILLUMINATION: LIGHT PIPE BUTTON	7.9±0.5
HIGH BUTTON	10.8±0.5

WIRELEADS



DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.25 ANGULAR ± 5°	DWG TITLE WG48-RM SERIES ,MECHANICAL MOMENTARY/MAINTAINED									
STATUS RELEASE	REVIEW <i>v.w.</i>		DWG NO. WG48-1,2,A,B-RM									
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		DATE 2020/4/17										



SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION	HOUSING TYPE CODE	BEZEL TYPE DECSRIPTION	LED COLOR CODE	LED COLOR	BUTTON COLOR CODE (SEE NOTE)	BUTTON COLOR	MOUNTING TYPE CODE	MOUNTING TYPE	LED INLET VOLTAGE CODE (SEE LED SPECIFICATION)	LED INLET VOLTAGE	SLEEVE CODE	SLEEVE LENGTH
1	MOMENTARY, SOLDER TERMINAL	RMB	ROUND,METAL HOUSING, MATTE BLACK	N	NONE	(H)RD	RED	B	BUSHING	NON-WIRELEADS	IF BLANK (SEE LED SPECIFICATION TABLE)	IF BLANK	STANDARD
A	MOMENTARY, WIRELEADS	RMS	ROUND,METAL HOUSING, VELOUR CHROME	G	GREEN	(H)GR	GREEN				05 5V (SEE NOTE 3)	D	SHORT
		RMC	ROUND,METAL HOUSING, BRIGHT CHROME	R	RED	(H)BK	BLACK			WIRELEADS	IF BLANK (SEE LED SPECIFICATION TABLE)		
				B	BLUE	(H)BL	BLUE				05 5V (SEE NOTE 3)		
				W	WHITE	(H)YL	YELLOW				12 12V		
				Y	YELLOW	(H)OR	ORANGE				24 24V		
				A	AMBER								

MECHANICAL CHARACTERISTICS:

SWITCH CIRCUITRY: SPST-NO-DB
SWITCH ACTION: MOMENTARY
BUTTON TRAVEL: 2.3mm [.09] NOMINAL
OPERATING FORCE: 306g [3N] NOMINAL
PANEL THICKNESS: 0.5 - 3.0mm [.02 - .12]
CONTACTS: SILVER
LIFE(MECHANICAL): 1,000K CYCLES
NUT TORQUE FORCE: MAX 6 kgf*cm [5.2 LB*in]

ENVIRONMENTAL SPECIFICATIONS:

ACTUATOR INGRESS PROTECTION: IP67
OPERATING TEMPERATURE:
MOMENTARY: -40 °C to +85 °C [-40 °F to +185 °F]

ELECTRICAL SPECIFICATIONS:

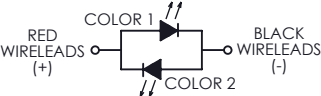
CURRENT RATINGS: 2A@24VDC,40K CYCLES NOMINAL
DIELECTRIC STRENGTH: 1,000VAC
INSULATION RESISTANCE: 1G OHM
CONTACT RESISTANCE:
50m OHMS MAX INITIAL(NON-WIRELEADS)
250m OHMS MAX INITIAL(WIRELEADS)

LED SPECIFICATIONS:

CURRENT LIMITING RESISTOR IS REQUIRED TO LIMIT LED FORWARD CURRENT TO 20mA.
LED CHARACTERISTICS SEE LED SPECIFICATION TABLE

NOTE:

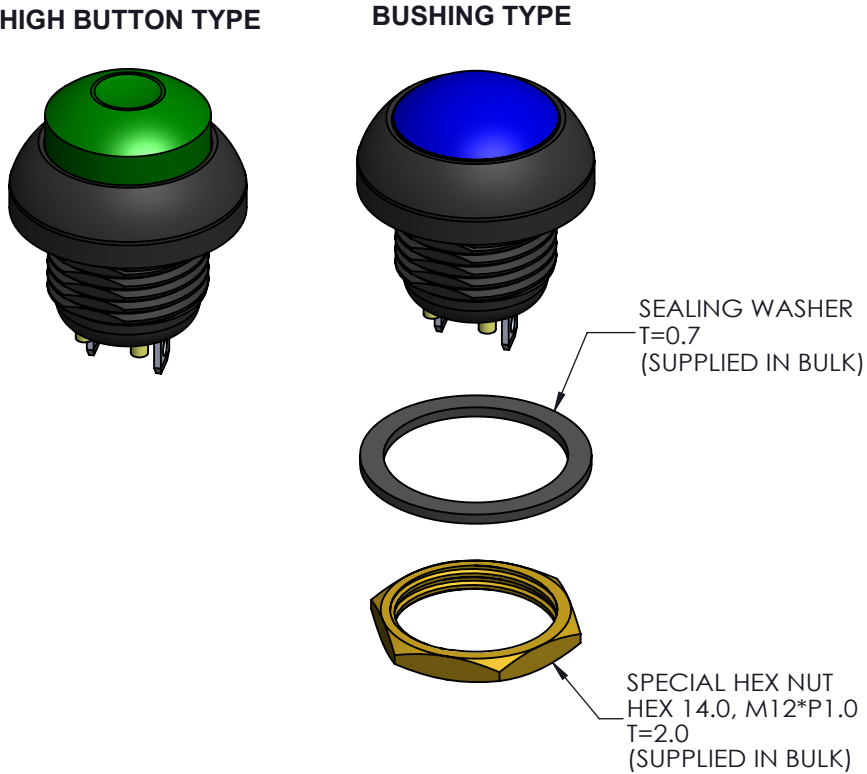
1. SUPPLY HEX NET AND SEALING WASHER BULK IN PACKED
2. HIGH-BUTTON OPTION, DENOTED (H):
ONLY AVAILABLE FOR ROUND BEZEL AND NON-ILL.TYPE
OMIT (H) FOR STANDARD BUTTON
3. INNER RESISTOR ONLY FOR LED: RED / BLUE / GREEN / WHITE

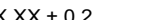
LED SPECIFICATION					
LED CODE	LED SINGLE COLOR		Vf(VDC)	If (mA)	CIRCUITRY
			TYP.		
R	RED		2.0	20	
A	AMBER		2.0	20	
Y	YELLOW		2.0	20	
G	GREEN		3.0	20	
B	BLUE		3.1	20	
W	WHITE		3.3	20	
LED CODE	BICOLOR LED		Vf(VDC)	If (mA)	CIRCUITRY
	COLOR 1	COLOR 2	TYP.		
RB	RED	BLUE	2.0 (RED) 3.3 (BLUE)	20	
RG	RED	GREEN	2.0 (RED) 3.4 (GREEN)	20	

Notes:

- 1.) Hand Soldering Temperature (4mm above from Body) : 320°C for 3 seconds

WIRELEADS SPECIFICATION					
WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL		LED	
				COLOR 1	
		/	O	+	-
ILLUMINATION	AWG26 / UL1007	BLUE	BLUE	RED	BLACK
NON-ILLUMINATION		BLUE	BLUE	--	--



DWG TYPE SALES DRAWING	DRAWN <i>c.c.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WG48-MECHANICAL MOMENTARY, METAL HOUSING, NONE/CENTER SPOT/POWER STANDBY SYMBOL ILLUMINATION					
STATUS RELEASE	REVIEW --		DWG NO. WG48-1,A-RMX					
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	DATE 2018.04.23	REF: S48-1, 2, 5, 6, A, B	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 2 : 1	REV 3	RoHS Compliant	SHEET 1 OF 3

