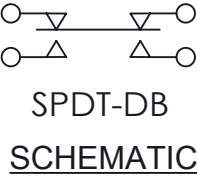




SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION	HOUSING MATERIAL CODE	HOUSING DECSRIPTION	ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION	LED COLOR CODE	LED COLOR	LED INLET VOLTAGE CODE		LED INLET VOLTAGE	ANY CODE	DESCRIPTION
1	MECHANICAL,MOMENTARY,SOLDER TERMINAL	1	STAINLESS STEEL	0	NON.-ILLUMINATION	N	NONE	NON-WIRELEADS	IF BLANK* (SEE NOTE)		IF BLANK*	NA
A	MECHANICAL,MOMENTARY,NO/NO WIRELEADS	2	ZINC ALLOY, CHROME PLATED	1	CENTER SPOT ILLUMINATION (STAINLESS HOUSING ONLY)	R	RED	WIRELEADS	IF BLANK* (SEE NOTE)		XXX	PER CUSTOMER SPECIAL REQUEST
C	MECHANICAL,MOMENTARY,NC/NC WIRELEADS	3	AL ALLOY ANODIZED BLACK	2	RING ILLUMINATION	G	GREEN		05	5V		
E	MECHANICAL,MOMENTARY,NC/NO WIRELEADS			3	POWER/STANDBY SYMBOL ILLUMINATION	B	BLUE		12	12V		
						Y	YELLOW		24	24V		
						W	WHITE					

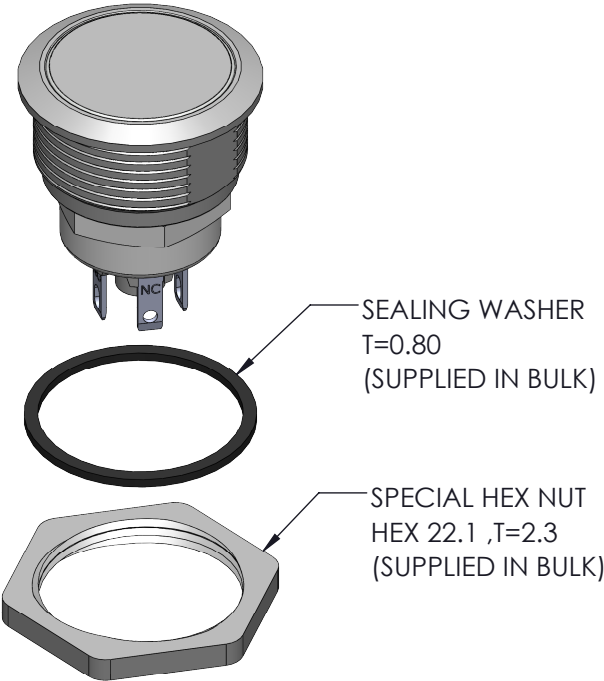
MECHANICAL CHARACTERISTICS:
 SWITCH CIRCUITRY: SPDT-DB
 SWITCH ACTION: MOMENTARY (PER CHART)
 PRE-TRAVEL: 1.27 mm NOMINAL
 OVER-TRAVEL: 0.254 mm NOMINAL
 TOTAL TRAVEL: 1.524 mm NOMINAL
 OPERATING FORCE: 525 g [5.15 N] NOMINAL
 RELEASEING FORCE: 340 g [3.45 N] NOMINAL
 PANEL THICKNESS: 0.5 - 4.5mm
 CONTACTS: SILVER
 NUT TORQUE FORCE: MAX. 11.5 kgf*cm [10 LB*in]



LED SPECIFICATION				
LED CODE	LED Color	CIRCUITRY	Vf(VDC)	If (mA)
			Color	
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:
 Hand Soldering Temperature (4mm above from Body) : 320°C for 3 seconds

WIRELEADS SPECIFICATION					
WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL	SW TERMINAL	LED	
				COLOR	
		NO	NC	+	-
ILLUMINATION	SW :AWG24 / UL1007 LED: AWG26/UL1007	BLUE	YELLOW	RED	BLACK
NON-ILLUMINATION		BLUE	YELLOW	-	-



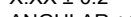
ENVIRONMENTAL SPECIFICATIONS:
OPERATING TEMPERATURE: -40°C to +85°C [-40°F to +185°F]
IP67 COMPLIANT

ELECTRICAL SPECIFICATIONS:
DIELECTRIC STRENGTH: 1,000VAC
INSULATION RESISTANCE: 1G OHM
CONTACT RESISTANCE:
50m /250m OHMS MAX. INITIAL(NON-WIRELEAD / WIRELEADS)

LED SPECIFICATIONS:
SEE LED SPECIFICATION

CERTIFICATION: UL 61058

* NOTE:
1.SUPPLY HEX NUT AND SEALING WASHER BULK IN PACKED

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 WSA48M-MECHANICAL MOMENTARY, NONE/ CENTER SPOT/RING/POWER-STANDBY ILLUMINATION					
STATUS RELEASE	REVIEW --		DWG NO. WSA48M-1,A,C,E					
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	DATE 2017/6/21	REF: WSA48-1,A,C,E	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 2 : 1	REV 5		

F

E

D

C

B

A

8

7

6

5

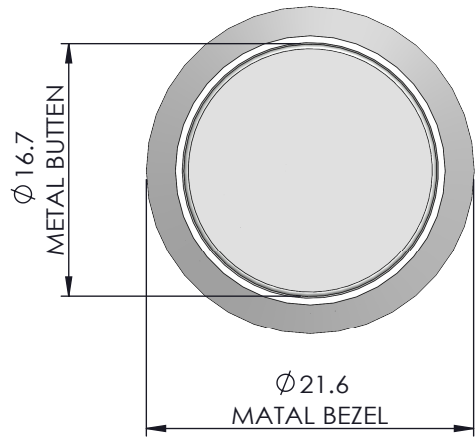
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3

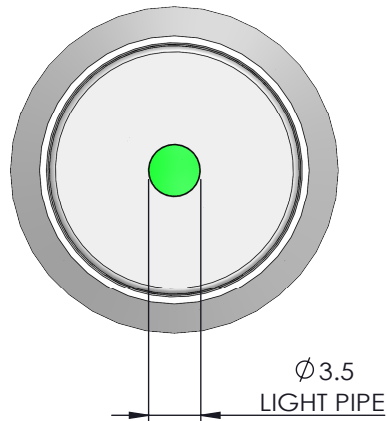
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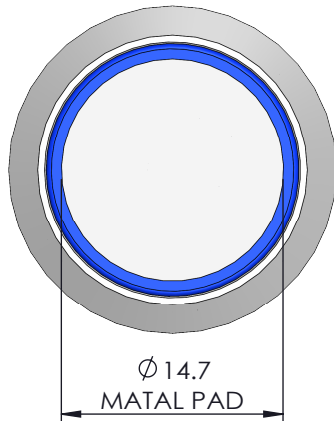
NON-ILLUMINATION



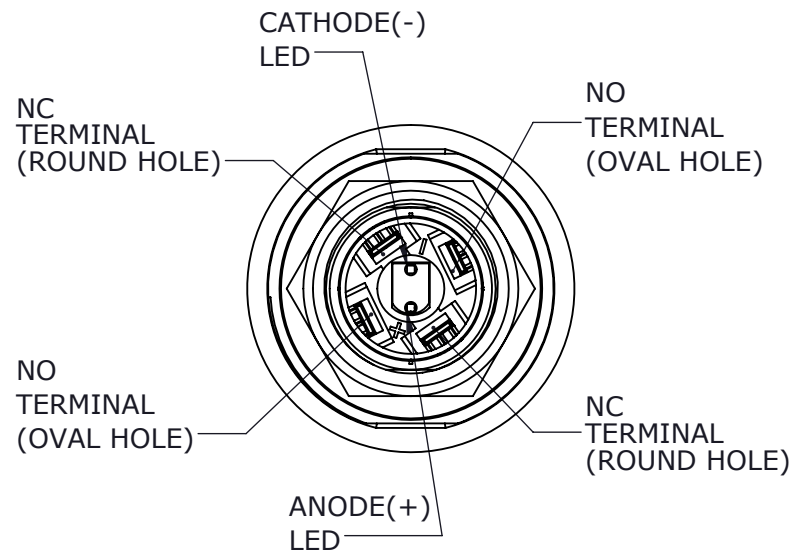
CENTER SPOT ILLUMINATION



RING ILLUMINATION

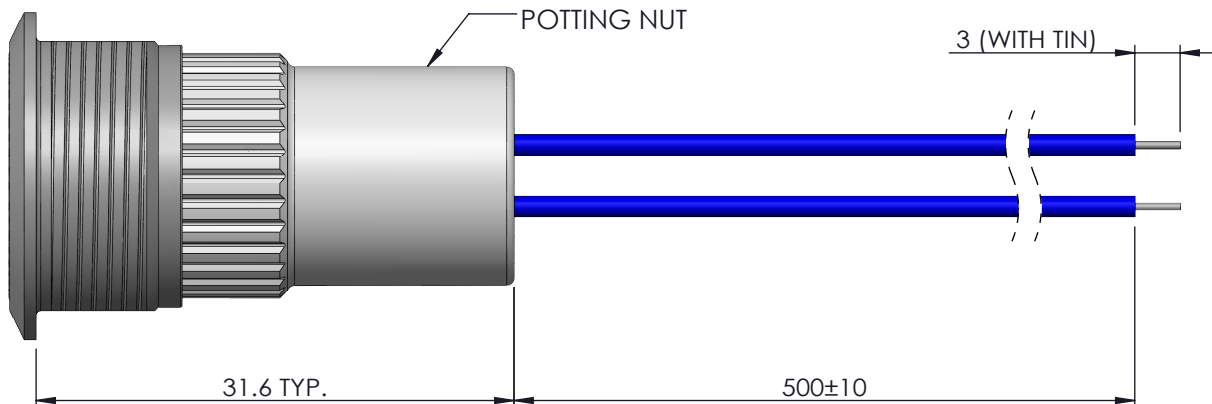
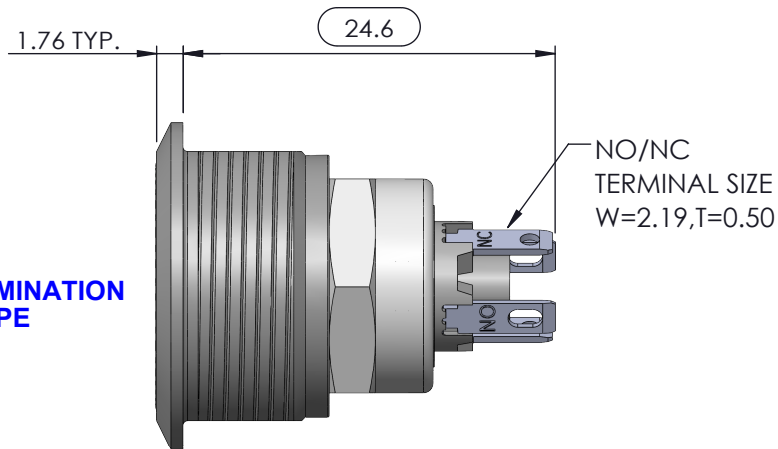


POWER/STANDBY ILLUMINATION

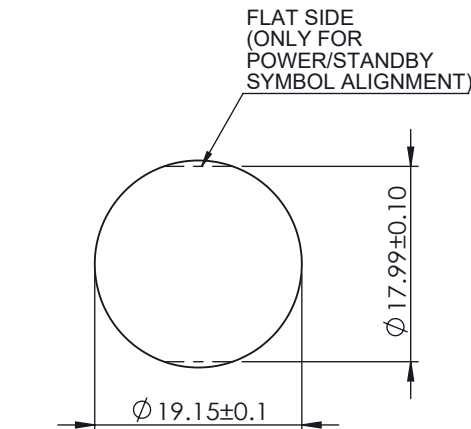
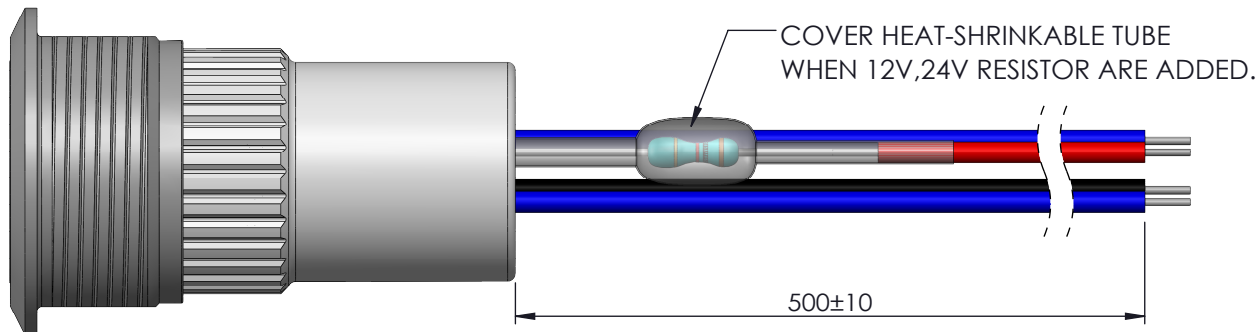
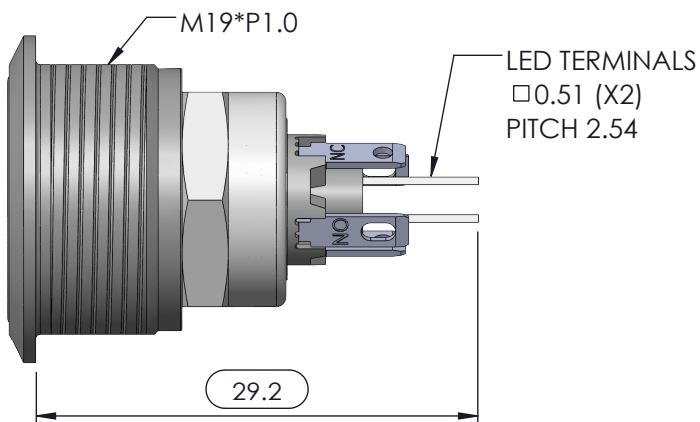


DETAIL FOR TERMINAL POSITION

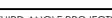
NON-ILLUMINATION TYPE



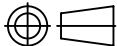
ILLUMINATION TYPE



RECOMMENDED PANEL CUT-OUT

DWG TYPE SALES DRAWING	DRAWN e.e.	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5	DWG TITLE WSA48M-MECHANICAL MOMENTARY, NONE/ CENTER SPOT/RING/POWER-STANDBY ILLUMINATION						
STATUS RELEASE	REVIEW --	X.XX ± 0.2 ANGULAR ±1°							
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	DATE 2017/6/21	REF: WSA48-1,A,C,E	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 2 : 1	REV 5			

REVISION RECORD				
REV	DESCRIPTION	DATE	DRAWN	DOCUMENT NO.
1	FOR SALES DRAWING	2014.10.17	A.H.	--
2	RE-ARRANGEMENT DRAWING MODIFY SPECIFICATION	2018.01.23	C.C.	--
3	ADDING UL 61058 CERTIFICATION	2018.06.01	K.Y.	DCN-201800069
4	1. REDRAWN WITH NEW FRAME 2. ADDING AL ALLOY, ANODIZED BLACK OPTION	2021.05.08	C.C.	DCN-202100075
5	ADD ELECTRICAL LIFE 5A@125/250VAC	2022.08.09	C.C.	DCN-202200067

DWG TYPE SALES DRAWING	DRAWN c.c.	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WSA48M-MECHANICAL MOMENTARY, NONE/ CENTER SPOT/RING/POWER-STANDBY ILLUMINATION						
STATUS RELEASE	REVIEW --		DWG NO. WSA48M-1,A,C,E						
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		DATE 2017/6/21	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 2 : 1	REV 5	RoHS Compliant	SHEET 3 OF 3	