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WSA48 — ① — ② — ③ — ④ — ⑤ — ⑥ — ⑦

SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION
1	MOMENTARY, SOLDER TERMINAL
A	MOMENTARY, NO/NO WIRELEADS
C	MOMENTARY, NC/NC WIRELEADS
E	MOMENTARY, NC/NO WIRELEADS

BEZEL TYPE CODE	BEZEL TYPE DESCRIPTION
RB	ROUND, BLACK
SB	SQUARE, BLACK

LED COLOR CODE	LED COLOR
N	NONE
G	GREEN
R	RED
B	BLUE
W	WHITE
Y	YELLOW

BUTTON COLOR CODE (SEE NOTE 2)	BUTTON COLOR
(H)RD	RED
(H)GR	GREEN
(H)BK	BLACK
(H)BL	BLUE
(H)YL	YELLOW
(H)OR	ORANGE
(H)WHITE	WHITE
PK	POWER/STANDBY BLACK (ONLY FOR ROUND BEZEL & BUSHING MOUNT)

MOUNTING TYPE CODE	MOUNTING TYPE
B	BUSHING
F	SNAP-FIT (ONLY FOR ROUND BEZEL)

LED INLET VOLTAGE CODE		LED INLET VOLTAGE
NON-WIRELEADS	BLANK*	(SEE NOTE)
	05	5V
	12	12V
WIRELEADS	24	24V

ANY CODE	DESCRIPTION
IF BLANK	NA
XXX	PER CUSTOMER SPECIAL REQUEST

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:
BUSHING MOUNT: 0.5 - 3.0mm
SNAP - IN MOUNT: 1.0, 2.0, 3.0mm ±0.05mm
CONTACTS: SILVER
NUT TORQUE FORCE: MAX. 6 kgf*cm [5.2 LB*in]

ELECTRICAL LIFE:

5A@28VDC, 5A@125/250VAC , 25K CYCLES NOMINAL

MECHANICAL LIFE:

MOMENTARY: 1,000,000 CYCLES NOMINAL

ENVIROMENTAL 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 /250 OHMS MAX. INITIAL (NON-WIRELEAD / WIRELEADS)

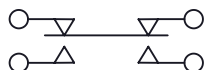
LED SPECIFICATIONS:

SEE LED SPECIFICATION

CERTIFICATION: UL 61058

*** NOTE:**

1. SUPPLY HEX NUT AND SEALING WASHER BULK IN PACKED
2. HIGH-BUTTON OPTION, DENOTED (H), ONLY AVAILABLE FOR ROUND BEZEL AND NON-ILL. TYPE. OMIT (H) FOR STANDARD BUTTON.



SPDT-DB

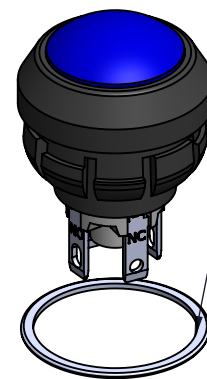
SCHEMATIC

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

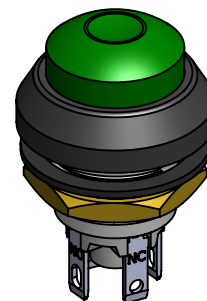
Notes:

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

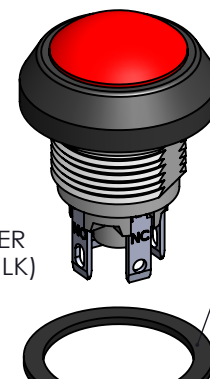
WIRELEADS SPECIFICATION				
WIRELEADS TYPE	SW TERMINAL	SW TERMINAL	LED	
	NO	NC	+	-
ILLUMINATION	BLUE AWG24 UL1007	YELLOW AWG24 UL1007	RED AWG26 UL1007	BLACK AWG26 UL1007
NON-ILLUMINATION	BLUE AWG24 UL1007	YELLOW AWG24 UL1007	-	-



SNAP FIT TYPE



HIGH BUTTON TYPE



BUSHING TYPE

SEALING WASHER
(SUPPLIED IN BULK)

SEALING WASHER
(SUPPLIED IN BULK)

SPECIAL HEX NUT
HEX 14.0, M12*P1.0
(SUPPLIED IN BULK)

DWG TYPE SALES DRAWING	DRAWN e.e.	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WSA48-MECHANICAL MOMENTARY, NONE/CENTER SPOT/ POWER STANDBY SYMBOL ILLUMINATION								
STATUS RELEASE	REVIEW --										
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	DATE 2017/6/23	REF: --									☒ 管制文件 ☐ 非管制文件 Unit mm SCALE 2 : 1 REV 6
				RoHS Compliant				SHEET 1 OF 3			

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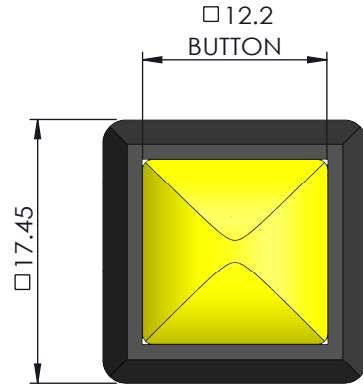
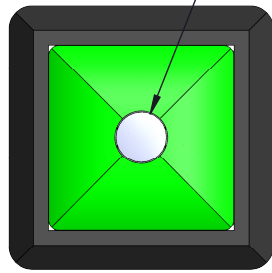
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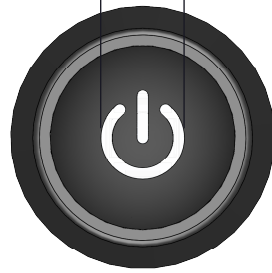
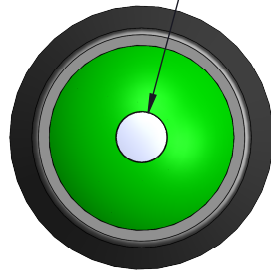
SQUARE BEZEL

Ø3.3 LIGHT PIPE
LIGHTED SWITCH ONLY

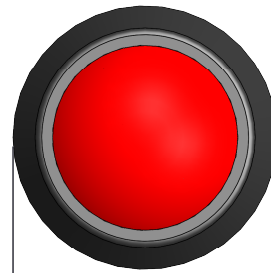


ROUND BEZEL

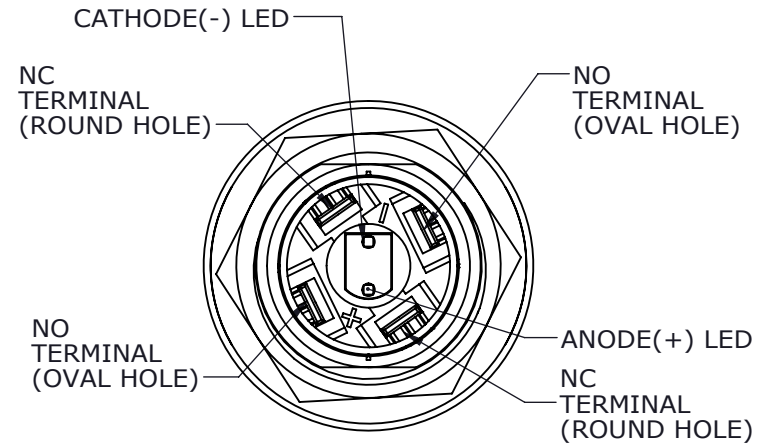
Ø3.3 LIGHT PIPE
LIGHTED SWITCH ONLY



(Ø 5.5)
POWER/STANDBY
LOGO

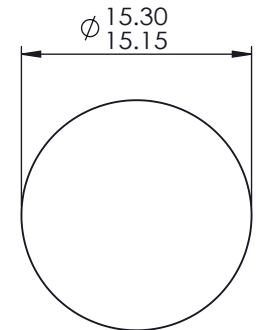
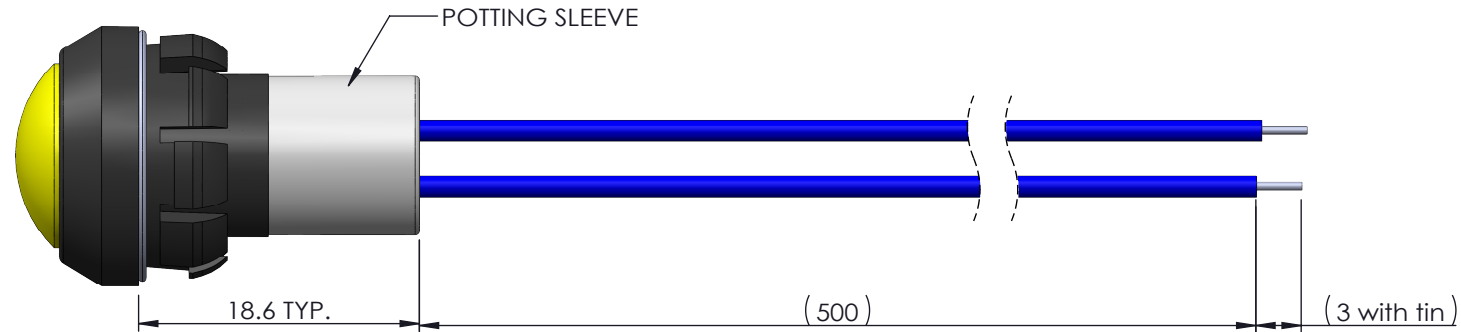
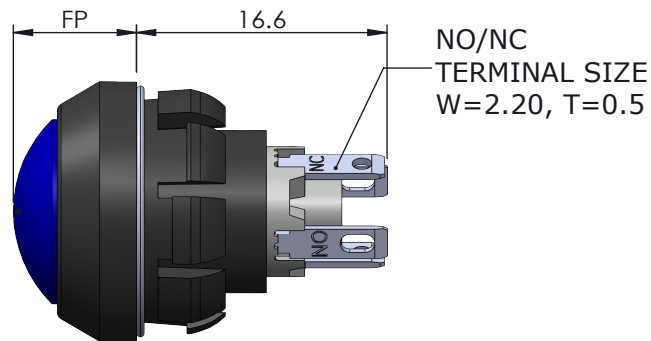


Ø 17.4
BAZEL



DETAIL FOR TERMINAL POSITION

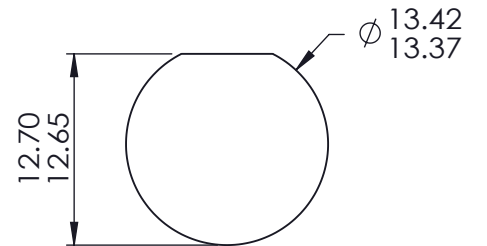
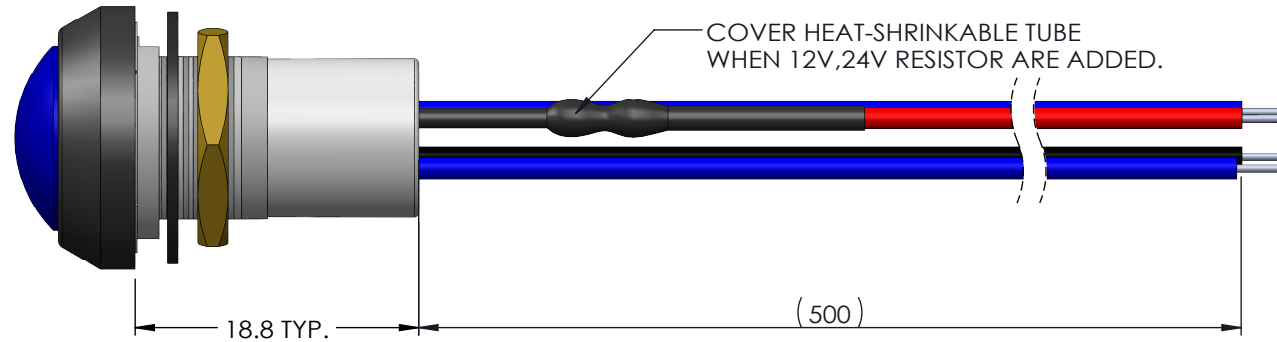
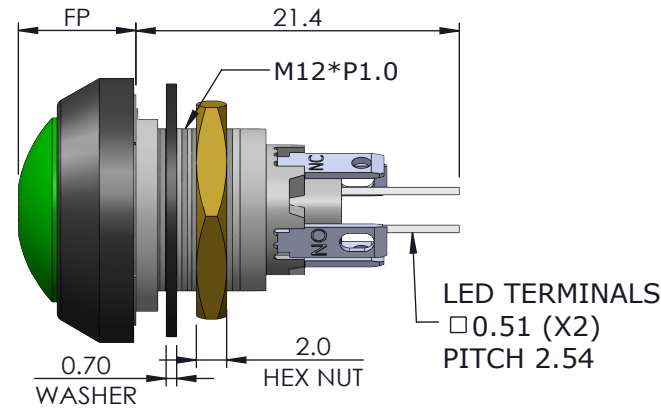
NON-ILLUMINATION
& SNAP FIT TYPE



REFERENCE
PANEL CUT-OUT
SNAP-IN MOUNT

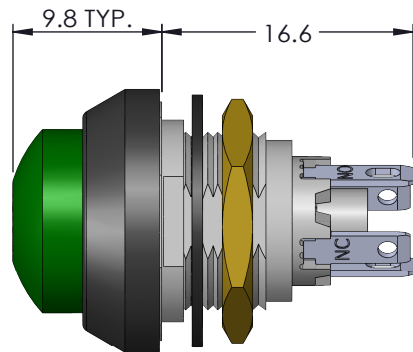
PANEL THICKNESS: 1.0mm , 2.0mm , 3.0mm ±0.5

ILLUMINATION
& BUSHING TYPE



REFERENCE
PANEL CUT-OUT
BUSHING MOUNT

NON-ILLUMINATION
& HIGH BUTTON TYPE



BUTTON TYPE	FP(mm)
ILLUMINATION LIGHT PIPE	7.8±0.5
NON-ILLUMINATION	8.1±0.5

DWG TYPE SALES DRAWING	DRAWN <i>e.e.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WSA48-MECHANICAL MOMENTARY, NONE/CENTER SPOT/ POWER STANDBY SYMBOL ILLUMINATION		
STATUS RELEASE	REVIEW --	THIRD ANGLE PROJECTION 	DWG NO. WSA48-1,A,C,E		
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			Unit mm	SCALE 2 : 1	REV 6
			RoHS Compliant		SHEET 2 OF 3

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 / REVISED SNAP-IN HOUSING	2018.06.01 / 2018.10.08	K.Y. / A.C.	DCN-201900023
4	1.CHANGE MOUNTING OPTION FROM SNAP IN TO "SNAP FIT" 2. FREE POSITION REVISED,DUE TO CHANGE THE BUTTON TO SNAP BUTTON. 3.CHANGE WASHER TO 80SP48-0296 4. ADD NOTE FOR HIGH BUTTON.	2020.08.03	KY	DCN-202000080
5	CHANGE DIM. OF PANEL CUT OUT	2021.08.06	KY	DCN-202100073
6	ADD ELECTRICAL LIFE 5A@125/250VAC	2022.08.29	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 WSA48-MECHANICAL MOMENTARY, NONE/CENTER SPOT/ POWER STANDBY SYMBOL ILLUMINATION							
STATUS RELEASE	REVIEW --		DWG NO. WSA48-1,A,C,E							
APPROVED v.w.		THIRD ANGLE PROJECTION 								
DATE 2017/6/23		REF: --	☒ 管制文件 ☐ 非管制文件	Unit mm	SCALE 2 : 1	REV 6	RoHS Compliant	SHEET 3 OF 3		