

F

E

D

C

B

A

7

6

5

4

3

2

1

WSA48—

①

— RM —

②

③

④

⑤

⑥

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

BEZEL TYPE DECSRIPTION
ROUND, MIRRO BLACK

LIHGTE CODE	DESCRIPTI ON
N	NONE
G	GREEN
R	RED
B	BLUE
W	WHITE
Y	YELLOW

BUTTON COLOR CODE (SEE NOTE 2)	DESCRIPTION OF BUTTON
(H)RD	RED
(H)GR	GREEN
(H)BK	BLACK
(H)BL	BLUE
(H)YL	YELLOW
(H)OR	ORANGE
(H)WH	WHITE

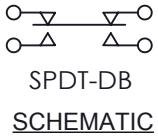
MOUNTING TYPE CODE	MOUNTING TYPE
B	BUSHING
F	SNAP FIT

LED INLET VOLTAGE CODE		LED INLET VOLTAGE
NON-WIRELEADS	BLANK*	SEE SEPC. TABLE
	BLANK*	SEE SEPC. TABLE
	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 MOUNT:1mm/2mm/3mm ±0.05



CONTACTS: SILVER
NUT TORQUE FORCE: MAX. 6 kgf*cm [5.2 LB*in]

ELECTRICAL LIFE:

5A@28VDC, 5A@125/250VAC , 25K 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 & WIRELEADS SPECIFICATIONS:

SEE LED SPECIFICATION
SEE WIRELEADS SPECIFICATION

CERTIFICATION: UL 61058

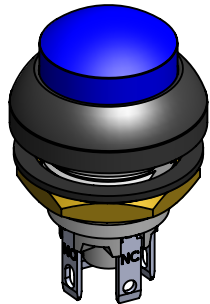
*** NOTE:**

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

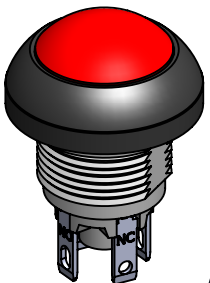
LED SPECIFICATION				
LED CODE	LED Color	CIRCUITRY	Vf(VDC)	If (mA)
			Color	
R	RED		1.8 ~ 2.5	20
B	BLUE		2.8 ~ 3.5	20
G	GREEN		2.8 ~ 3.5	20
Y	YELLOW		1.8 ~ 2.5	20
W	WHITE		2.8 ~ 3.5	20
Notes: Hand Soldering Temperature (4mm above from Body) : 320°C for 3 seconds				

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	-	-

HIGH BUTTON TYPE



BUSHIG TYPE



SEALING WASHER
(SUPPLIED IN BULK)

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



DWG TYPE SALES DRAWING	DRAWN K.Y.	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°		DWG TITLE WSA48 RM SERIES(MOMENTARY)				ITW SWITCH LUMEX®	
STATUS RELEASE	REVIEW v.w.			DWG NO. WSA48-1,A,C,E-RM					
This document is the intellectual property of ITW Electronic Business Asia Co., Limited and may contain confidential, proprietary, privileged information protected by law. Neither this document nor any information it contains can be reproduced, transformed to any other format, or distributed, without written permission by ITW Electronic Business Asia Co., Limited. 本文作為安得百電股份有限公司之智慧財產，非經許可不得 擷取、複製、轉變成其他形式使用或散佈		APPROVED v.w.	THIRD ANGLE PROJECTION 						
		DATE 2020/5/26	REF: --						

8

7

6

5

4

3

2

1

F

E

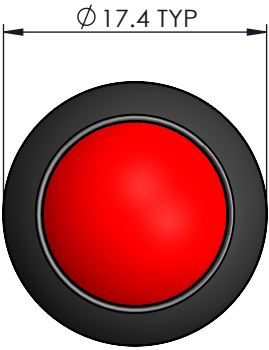
D

C

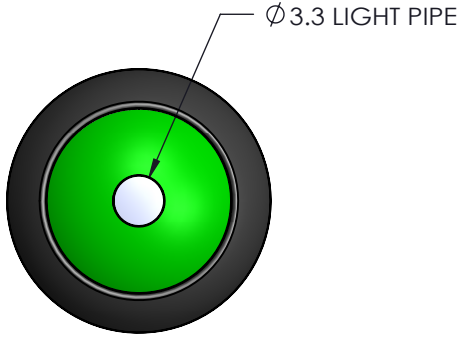
B

A

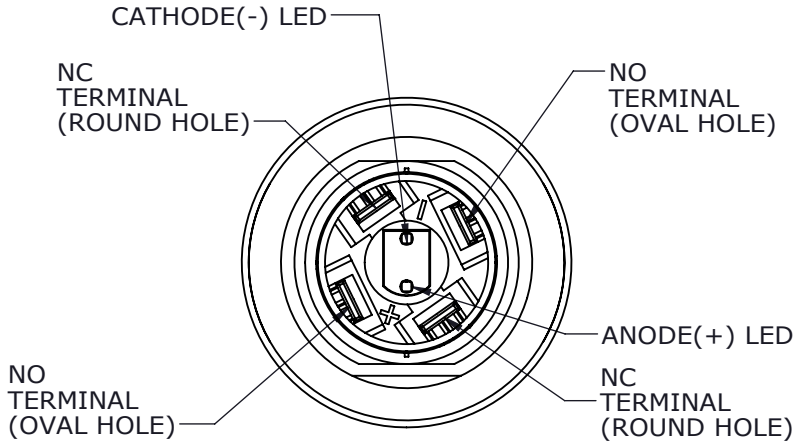
BUSHING MOUNTING



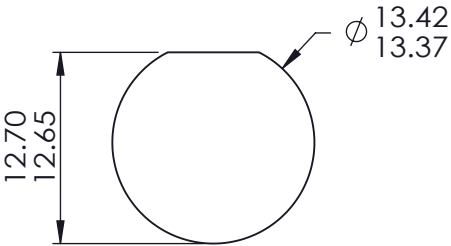
NON-ILLUMINATION



ILLUMINATION

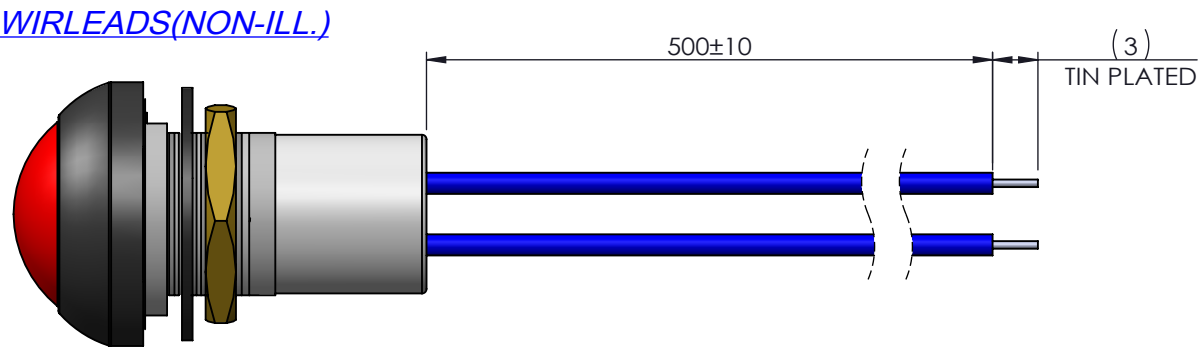
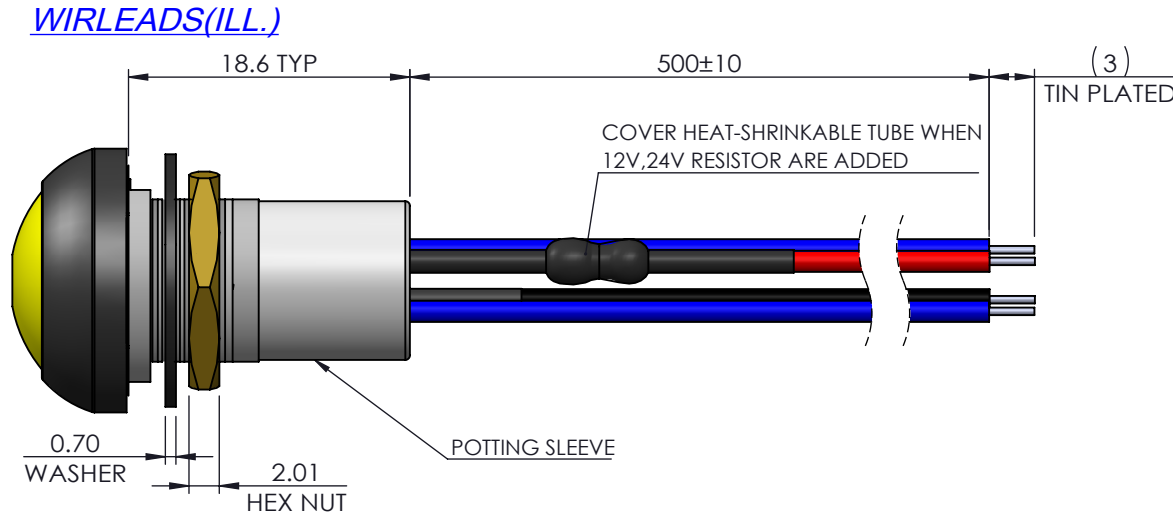
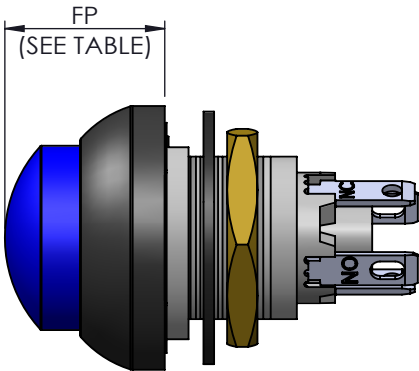
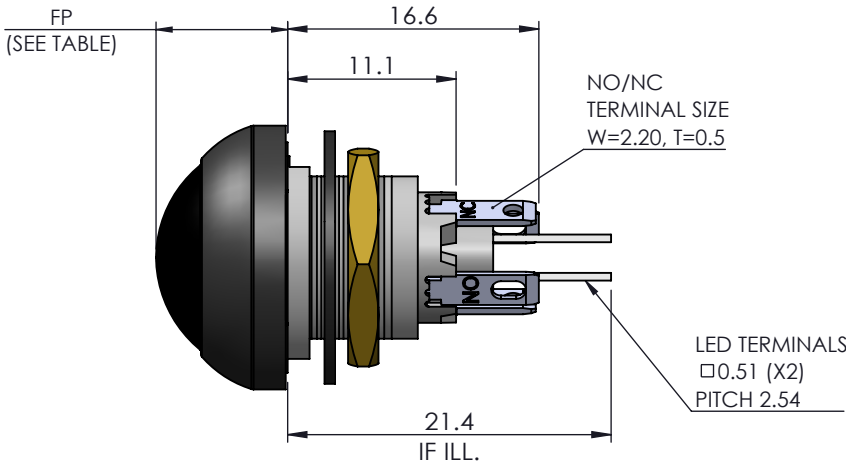


DETAIL FOR TERMINAL POSITION



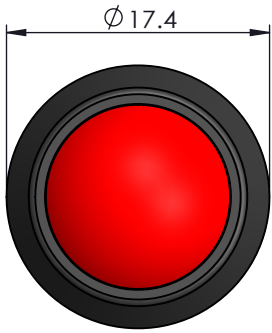
REFERENCE
PANEL CUT-OUT
BUSHING MOUNT

BUTTON TYPE	FP(mm)
NON-ILLUMINATION	8.7±0.5
ILLUMINATION: LIGHT PIPE	7.8±0.5
HIGH BUTTON	10.6±0.5

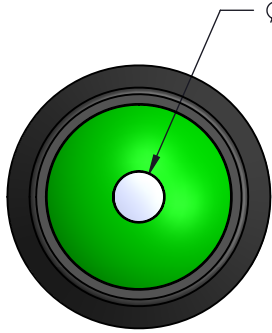


DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WSA48 RM SERIES(MOMENTARY)								
STATUS RELEASE	REVIEW <i>v.w.</i>		DWG NO. WSA48-1,A,C,E-RM								
This document is the intellectual property of ITW Electronic Business Asia Co., Limited and may contain confidential, proprietary, privileged information protected by law. Neither this document nor any information it contains can be reproduced, transformed to any other format, or distributed, without written permission by ITW Electronic Business Asia Co., Limited. 本文作為安達德百電股份有限公司之智慧財產，非經許可不得擷取、複製、轉變成其他形式使用或散佈		THIRD ANGLE PROJECTION 	☒ 管制文件 ☐ 非管制文件				Unit mm	SCALE 2 : 1	REV 4	RoHS Compliant	SHEET 2 OF 4
		REF: --									

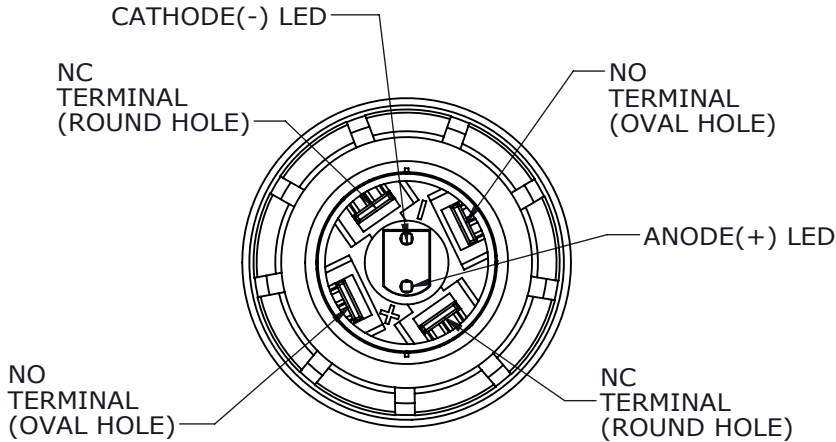
SNAP FIT MOUNTING



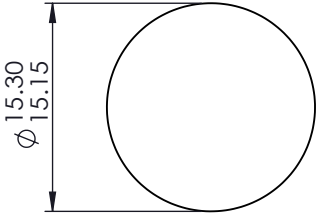
NON-ILLUMINATION



ILLUMINATION

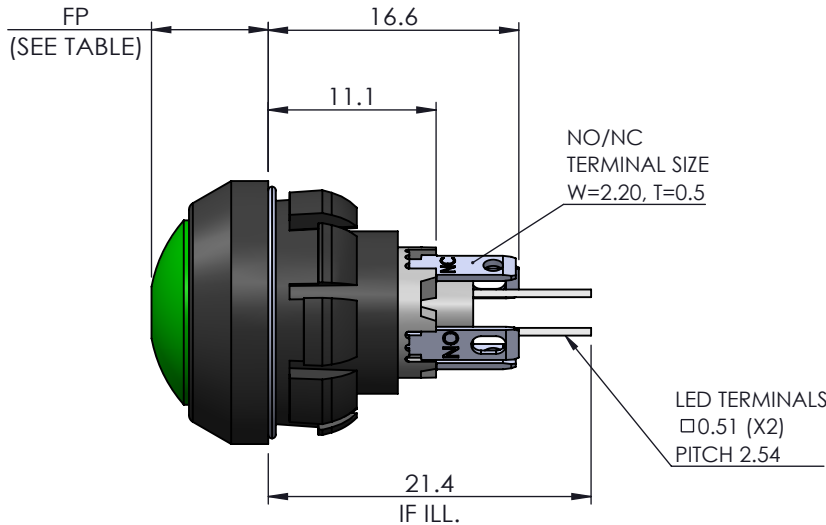


DETAIL FOR TERMINAL POSITION

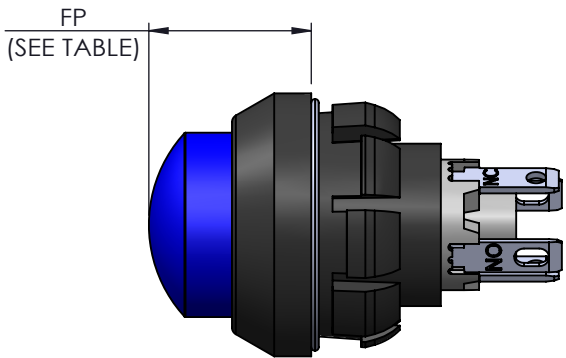
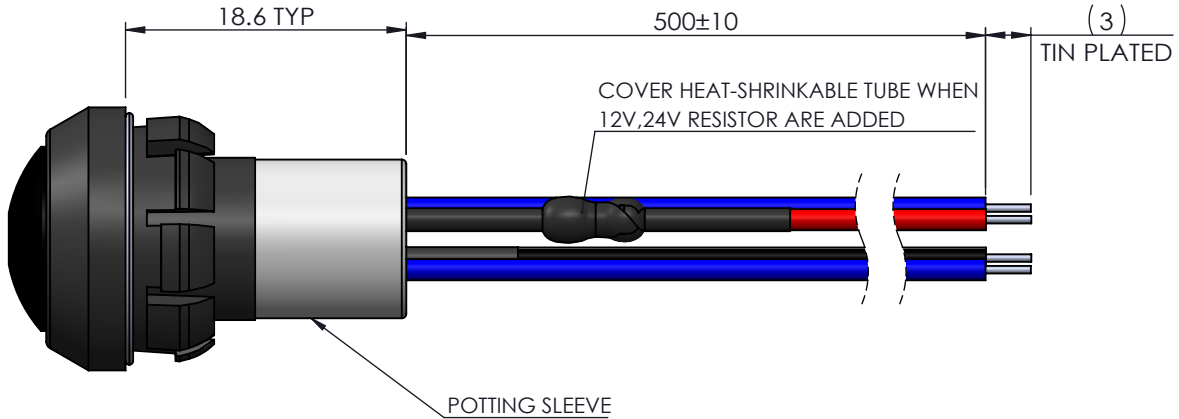


REFERENCE
PANEL CUT-OUT
SNAP FIT MOUNT
PANEL THICKNESS: 1.0mm , 2.0mm , 3.0mm ±0.5

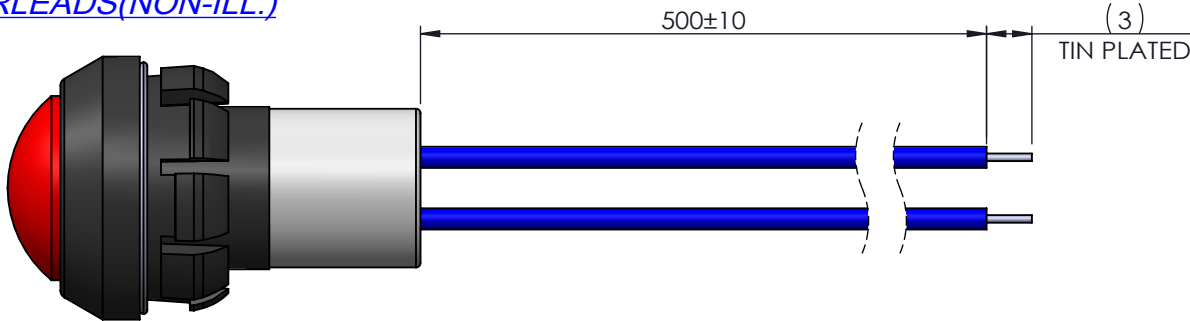
BUTTON TYPE	FP(mm)
NON-ILLUMINATION	8.7±0.5
ILLUMINATION: LIGHT PIPE	7.8±0.5
HIGH BUTTON	10.6±0.5



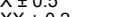
WIRLEADS(ILL.)



WIRLEADS(NON-ILL.)



DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG TITLE WSA48 RM SERIES(MOMENTARY)						
STATUS RELEASE	REVIEW <i>v.w.</i>								
This document is the intellectual property of ITW Electronic Business Asia Co., Limited and may contain confidential, proprietary, privileged information protected by law. Neither this document nor any information it contains can be reproduced, transformed to any other format, or distributed, without written permission by ITW Electronic Business Asia Co., Limited. 本文作為安達德百電股份有限公司之智慧財產，非經許可不得擷取、複製、轉變成其他形式使用或散佈。	APPROVED <i>v.w.</i>	THIRD ANGLE PROJECTION 	DWG NO. WSA48-1,A,C,E-RM						
	DATE 2020/5/26	REF: --							

DWG TYPE SALES DRAWING	DRAWN <i>K.Y.</i>	TOLERANCES: UNLESS OTHERWISE NOTED	DWG TITLE WSA48 RM SERIES(MOMENTARY)						
STATUS RELEASE	REVIEW <i>v.w.</i>	X.X ± 0.5 X.XX ± 0.2 ANGULAR ±1°	DWG NO. WSA48-1,A,C,E-RM						
This document is the intellectual property of ITW Electronic Business Asia Co., Limited and may contain confidential, proprietary, privileged information protected by law. Neither this document nor any information it contains can be reproduced, transformed to any other format, or distributed, without written permission by ITW Electronic Business Asia Co., Limited. 此文件為亞士達電子有限公司之智慧財產，未經許可不得複製、複製、轉錄或其他形式使用或散佈。		APPROVED <i>v.w.</i>	THIRD ANGLE PROJECTION 	☒ 管制文件 ☐ 非管制文件		Unit mm			
DATE 2020/5/26		REF: --			RoHS Compliant		SHEET 4 OF 4		