

8

7

6

5

4

3

2

1

W48M—

X

X

X

X

XX

SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION
1	MECHANICAL,MOMENTARY,SOLDER TERMINAL
2	MECHANICAL,MAINTAINED,SOLDER TERMINAL
5	MECHANICAL,MOMENTARY, P.C. TERMINAL
6	MECHANICAL,MAINTAINED, P.C. TERMINAL
A	MACHANICAL, MOMENTARY, WIRELEADS
B	MACHANICAL, MAINATINED, WIRELEADS

HOUSING MATERIAL CODE	HOUSING DECSRPTION
1	STAINLESS STEEL
2	ZINC ALLOY, CHROME PLATED
3	AL ALLOY, ANODIZED BLACK

ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION
0	NON-ILLUMINATION
1	CENTER SPOT ILLUMINATION
2	RING ILLUMINATION
3	POWER/STANDBY SYMBOL ILLUMINATION

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

LED INLET VOLTAGE CODE		LED INLET VOLTAGE
NON-WIRELEADS	IF BLANK*	(SEE NOTE)
	05	5V (SEE NOTE3)
WIRELEADS	IF BLANK*	(SEE NOTE)
	05	5V (SEE NOTE3)
	12	12V
	24	24V

MECHANICAL CHARACTERISTICS:
SWITCH CIRCUITRY: SPST-NO-DB (CONTACT FORM X)
SWITCH ACTION: MOMENTARY AND MAINTAINED (PER CHART)
BUTTON TRAVEL: 2.3mm [.090] NOMINAL
OPERATING FORCE: 306g [3N] NOMINAL
CONTACT BOUNCE: 1ms NOMINAL
PANEL THICKNESS: 0.5 - 4.5mm[.020 - .177]
CONTACTS: GOLD PLATED
NUT TORQUE FORCE: MAX11.5 kgf-cm [10 LB-in]

ENVIROMENTAL SPECIFICATIONS:
ACTUATOR INGRESS PROTECTION: IP67

OPERATING TEMPERATURE:
NON-ILLUMINATION TYPE: -40°C to +85°C [-40°F to +185°F]
ILLUMINATION TYPE: -40°C to +85°C [-40°F to +185°F]

ELECTRICAL SPECIFICATIONS:
CURRENT RATING:
MOMENTARY: 250mA@12VDC, 100K cycles
150mA@28VDC, 150K cycles
100mA@48VDC, 100K cycles
10mA@12VDC, 1,000K cycles

MAINTAINED : 50,000 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:
SEE LED SPECIFICATION

NOTE
1.CURRENT LIMITING RESISTOR IS REQUIRED TO LIMIT LED FORWARD CURRENT TO 20mA
2. SUPPLY HEX NUT AND SEALING WASHER BULK PACKED.
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
	COLOR1	COLOR2	TYP.		
RB	RED	BLUE	2.0(RED) 3.3(BLUE)	20	
RG	RED	GREEN	2.0(RED) 3.4(GREEN)	20	
NOTE: 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	--	--

NON-ILLUMINATION TYPE

SEALING WASHER
T=0.8
(SUPPLIED IN BULK)

SPECIAL HEX NUT
HEX 22.1, M19*P1.0
T=2.2
(SUPPLIED IN BULK)

RING ILLUMINATION TYPE

CENTER SPOT ILLUMINATION

DWG TYPE
SALES DRAWING

STATUS
RELEASE

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.
本文作為安達德電子股份有限公司之智慧財產，非經許可不得翻取、複製、轉變成其他形式使用或散佈

DRAWN
K.Y.

REVIEW

APPROVED
V.W.

DATE
2017/8/26

TOLERANCES:
UNLESS OTHERWISE NOTED
X.X ± 0.5
X.XX ± 0.25
ANGULAR ± 5°

THIRD ANGLE PROJECTION

REF:
48M-1,2,5,6,A,B

DWG TITLE
W48M-MECHANICAL MOMENTARY/MAINTAIN, NONE/CENTER SPOT/ POWER STANDBY SYMBOL ILLUMINATION

DWG NO.
W48M-1,2,5,6,A,B

管制文件
非管制文件

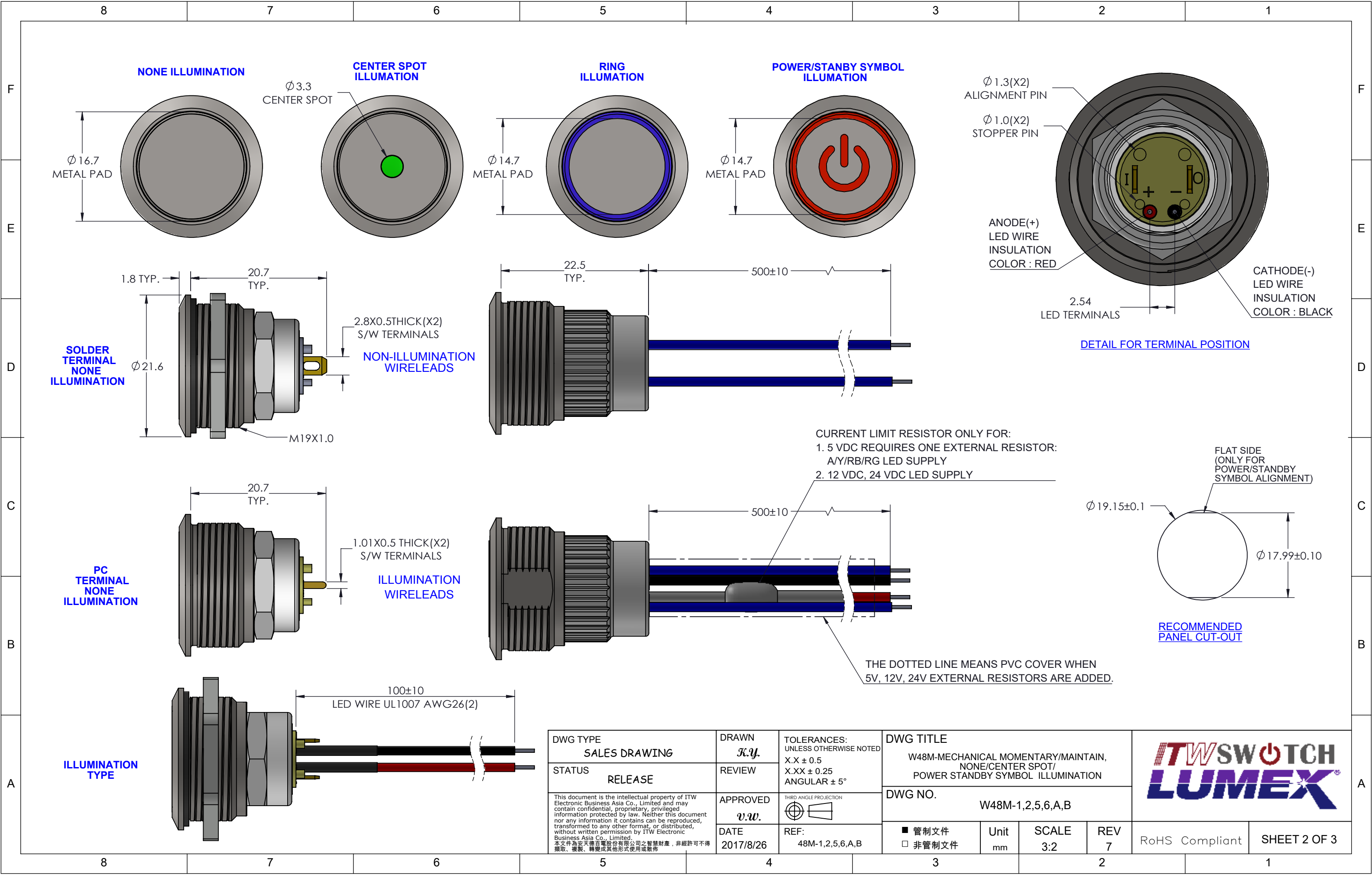
Unit
mm

SCALE
3:2

REV
7

RoHS Compliant

SHEET 1 OF 3



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

[W48M-110N](#) [W48M-112B](#) [W48M-113B](#) [W48M-A10N](#) [W48M-A12B](#) [W48M-A13B05](#) [W48M-A13W05](#)