

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 DECSRIPTION
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

SEALING WASHER
T=0.8
(SUPPLIED IN BULK)

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

CENTER SPOT ILLUMINATION

SEALING WASHER
T=0.8
(SUPPLIED IN BULK)

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

DWG TYPE
SALES DRAWING

STATUS
RELEASE

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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

