

ISSUE DATE:2021/10/26

SWITCH FUNCTION CODE	INDICATOR FUNCTION DESCRIPTION	HOUSING MATERIAL CODE	HOUSING DECSRIPTION	ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION	LED COLOR CODE	LED COLOR
1	MECHANICAL,MOMENTARY,SOLDER TERMINAL	1	STAINLESS STEEL	0	NON.-ILLUMINATION	N	NONE
2	MECHANICAL,MAINTAINED,SOLDER TERMINAL	2	ALUMINUM, INHERENT	2	RING ILLUMINATION	R	RED
5	MECHANICAL,MOMENTARY, P.C. TERMINAL			3	POWER/STANDBY SYMBOL ILLUMINATION	A	AMBER
6	MECHANICAL,MAINTAINED, P.C. TERMINAL			R	RED BUTTON, NON-ILLUMINATION	Y	YELLOW
						G	GREEN
						B	BLUE
						W	WHITE
						RB	RED/BLUE
						RG	RED/GREEN

MECHANICAL CHARACTERISTICS:
SWITCH CIRCUITRY: SPST-NO-DB (CONTACT FORM X)
SWITCH ACTION: MOMENTARY AND MAINTAINED (PER CHART)
BUTTON TRAVEL:2.3mm NOMINAL
OPERATING FORCE:306gNOMINAL
CONTACT BOUNCE: 1ms NOMINAL
PANEL THICKNESS: 0.5 - 4.5mm
CONTACTS: SILVER PLATED
NUT TORQUE FORCE: MAX 11.5 kgf*cm

ENVIROMENTAL SPECIFICATIONS:
ACTUATOR INGRESS PROTECTION: IP67
OPERATING TEMPERATURE:-40 °C to +85 °C

MACHENICAL LIFE:
MOMENTARY: 1KK CYCLES NOMINAL
MAINTAINED : 50,000 CYCLES NOMINAL

ELECTRICAL LIFE & SPECIFICATIONS:
SILVER PLATED CONTACTS:10mA@12VDC, 100K CYCLES NOMINAL

DIELECTRIC STRENGTH: 1,000VAC
INSULATION RESISTANCE: 1G OHM
CONTACT RESISTANCE: 50m OHMS MAX (INITIAL)

NOTE:
1. CURRENT LIMITING RESISTOR IS REQUIRED TO LIMIT LED FORWARD CURRENT TO 20mA
2. SUPPLY HEX NUT AND SEALING ORING BULK PACKED

LED SPECIFICATION

LED CODE	LED SINGLE COLOR	Vf(VDC) TYP.	If (mA)	CIRCUITRY
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 COLOR1 COLOR2	Vf(VDC) TYP.	If (mA)	CIRCUITRY
RB	RED BLUE	2.0(RED) 3.3(BLUE)	20	
RG	RED GREEN	2.0(RED) 3.4(GREEN)	20	

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

RECOMMENDED PANEL CUT-OUT

21.05±0.10

P.C. TERMINALS DETAIL

1.02(W)x 0.51 (THK) P.C. TERMIANLS

DWG TYPE
SALES DRAWING

STATUS
RELEASE

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DWG TITLE
WS58M-MECHANICAL MOMENTARY/MAINTAIN, NONE/RING/ POWER STANDBY SYMBOL ILLUMINATION

DWG NO.
WS58M-1,2,5,6

管制文件
非管制文件

Unit
mm

SCALE
3:2

REV
2

RoHS Compliant

SHEET 1 OF 2

WS58M-①②③④⑤

SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION
A	MECHANICAL,MOMENTARY,WIRELEADS
B	MECHANICAL,MAINTAIN,WIRELEADS

HOUSING MATERIAL CODE	HOUSING DECSRIPTION
1	STAINLESS STEEL
2	ALUMINUM, INHERENT

ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION
0	NON.-ILLUMINATION
2	RING ILLUMINATION
3	POWER/STANDBY SYMBOL ILLUMINATION
R	RED BUTTON, NON-ILLUMINATION

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

LED INLET VOLTAGE CODE	LED INLET VOLTAGE
IF BLANK*	(SEE NOTE)
05	5V
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[.090inch] NOMINAL

OPERATING FORCE: 306g [3N] NOMINAL

CONTACT BOUNCE: 1ms NOMINAL

PANEL THICKNESS: 0.5 - 4.5mm [.020 - .177inch]

CONTACTS: SILVER PLATED

NUT TORQUE FORCE: MAX 11.5 kgf/cm [10 LB/in]

ENVIRONMENTAL 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]

MOMENTARY: -40 °C to +85 °C [-40 °F to +185 °F]

MAINTAINED: -40 °C to +65 °C [-40 °F to +149 °F]

ELECTRICAL SPECIFICATIONS:

CURRENT RATING:

MOMENTARY: 10mA@12VDC, 100K cycles

MAINTAINED : 20,000 CYCLES NOMINAL

DIELECTRIC STRENGTH: 1,000VAC

INSULATION RESISTANCE: 1G OHM

CONTACT RESISTANCE: 250m OHMS MAX (initial)

LED SPECIFICATIONS:

SEE LED SPECIFICATION(PAGE 1)

NOTE:

1. CURRENT LIMITING RESISTOR IS REQUIRED TO LIMIT LED FORWARD CURRENT TO 20mA

2. SUPPLY HEX NUT AND SEALING WASHER BULK PACKED

WIRELEADS SPECIFICATION:

1. WIRELEADS USED BY AWG26/UL1007

2. SWITCH WIRELEADS: BLUE

LED SPECIFICATION

LED CODE	LED SINGLE COLOR	Vf(VDC)	If (mA)	CIRCUITRY	
		TYP.			
R	RED	2.2	20		
Y	YELLOW	2.2	20		
G	GREEN	3.2	20		
B	BLUE	3.2	20		
W	WHITE	3.2	20		
LED CODE	BICOLOR LED		Vf(VDC)	If (mA)	CIRCUITRY
	COLOR1	COLOR2	TYP.		
RB	RED	BLUE	2 (RED) 3.2 (BLUE)	20	
RG	RED	GREEN	2 (RED) 3.2 (GREEN)	20	
BG	BLUE	GREEN	3.4 (BLUE) 3.2 (GREEN)	20	

Notes:

Hand Soldering Temperature (4mmabove from Body) : 320°C for 3 seconds

DWG TYPE

SALES DRAWING

STATUS

RELEASE

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DRAWN

y.w.

REVIEW

g.y.

APPROVED

g.y.

DATE

2010/6/8

TOLERANCES:

UNLESS OTHERWISE NOTED

X.X ± 0.5

X.XX ± 0.2

ANGULAR ± 1°

THIRD ANGLE PROJECTION

REF:

T48-1, 2

DWG TITLE

WS58M- PUSH BUTTON, WIRELEADS 500mm

DWG NO.

WS58M-A & S58M-B

管制文件

非管制文件

Unit

mm

SCALE

3:2

REV

4

ITW SW TCH

LUMEX

RoHS Compliant

SHEET 1 OF 3

8

7

6

5

4

3

2

1

