

58M- <div>X</div> <div>X</div> <div>X</div> <div>X</div> <div>XX</div>									
SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION	HOUSING MATERIAL CODE	HOUSING DECRIPTION	ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION	LED COLOR CODE	LED COLOR	LED INLET VOLTAGE CODE	LED INLET VOLTAGE
A	MECHANICAL,MOMENTARY,WIRELEADS	1	STAINLESS STEEL	0	NON-ILLUMINATION	N	NONE	IF BLANK*	(SEE NOTE)
B	MECHANICAL,MAINTAINED,WIRELEADS	2	ALUMINUM, INHERENT	-	-	G	GREEN	05	5V
				2	RING ILLUMINATION	R	RED	12	12V
				R	RED BUTTON, NON-ILLUMINATION	-	-	24	24V
						B	BLUE		
						W	WHITE		
						RB	RED/BLUE		
						RG	RED/GREEN DUAL		
						BG	BLUE/GREEN DUAL		

Revision			
Rev.	Description	Date	Appr.
1	SALES DRAWING	8, JUNE., 10'	<i>ABEL</i>

MECHANICAL CHARACTERISTICS:
SWITCH CIRCUITRY: SPST-NO-BE (CONTACT FORM X)
SWITCH ACTION: MOMENTARY AND MAINTAINED (PER CHART)
BUTTON TRAVEL: .090 [2.3mm] NOMINAL
OPERATING FORCE: 3N [306g] NOMINAL
CONTACT BOUNCE: 1ms NOMINAL
PANEL THICKNESS: .050 - .150 [1.3 - 3.8mm]
CONTACTS: GOLD PLATED

ENVIROMENTAL SPECIFICATIONS:
ACTUATOR INGRESS PROTECTION: IP67
OPERATING TEMPERATURE:
NON-ILLUMINATION TYPE: -40°F to +176°F [-40°C to +80°C]
ILLUMINATION TYPE: -22°F to +176°F [-30°C to +80°C]

ELECTRICAL SPECIFICATIONS:
CURRENT RATING:
MOMENTARY: 250mA@12VDC, 100K cycles
150mA@28VDC, 150K cycles
100mA@48VDC, 100K cycles
10mA@12VDC, 500K cycles

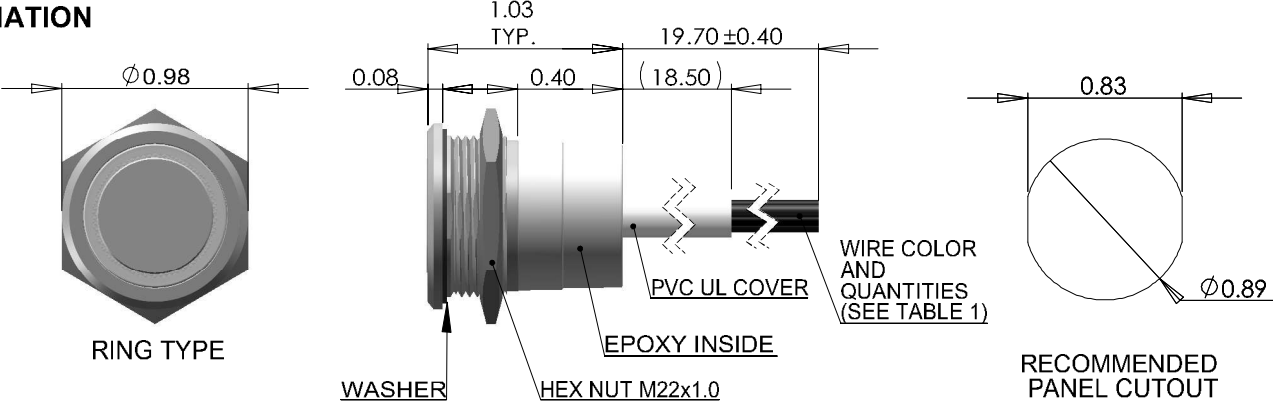
MAINTAINED : 50,000 CYCLES NOMINAL

DIELECTRIC STRENGTH: 1,000VAC
INSULATION RESISTANCE: 1G OHM
CONTACT RESISTANCE: 250m OHMS MAX (initial)

LED SPECIFICATIONS:
SEE LED SPECIFICATION(PAGE 2)

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

ILLUMINATION



NON-ILLUMINATION

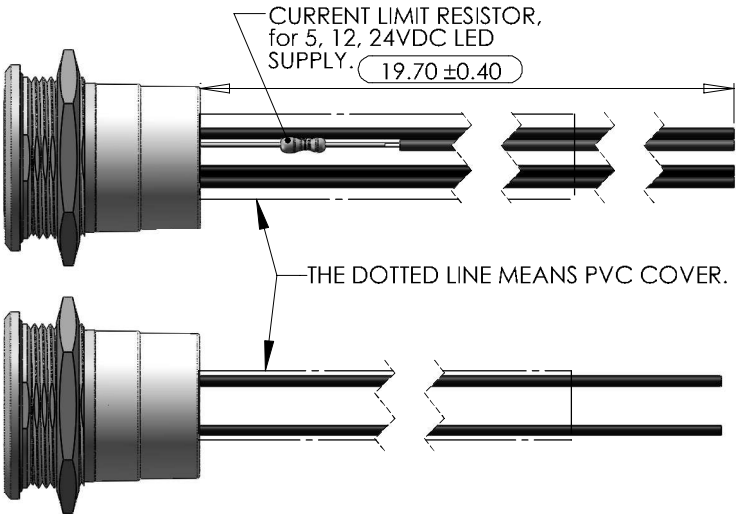
勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

TOLERANCES UNLESS OTHERWISE NOTED 3 PLACE DECIMAL ± .018 2 PLACE DECIMAL ± .02 ANGULAR ± 1/2°				ITW Switches AN ILLINOIS TOOL WORKS COMPANY			
DWG TITLE				58M- PUSH BUTTON, WIRELEADS 500mm			
RoHS Compliant		DATE 1, JULY.,08'	REF: T48-1, 2	SIZE B	DWG NO.	58M-A & 58M-B	REV 1
Yes ✓	No	DRAWN <i>A.H.</i>	CHK <i>B.C.</i>	APP'D <i>--</i>	SUPV <i>P.L.</i>	SCALE : 1.5:1	SHEET 1 OF 2

WIRELEADS

ILLUMINATION

NON-ILLUMINATION



LED SPECIFICATION

LED CODE	LED		CIRCUITRY	Vf (VDC)		If (mA)
	LED 1	LED 2		LED 1	LED 2	
A	AMBER	-		2	-	20
R	RED	-		2	-	20
Y	YELLOW	-		2	-	20
B	BLUE	-		3.2	-	20
G	GREEN	-		3.2	-	20
W	WHITE	-		3.2	-	20
RB	RED	BLUE		2	3.2	20
RG	RED	GREEN		2	3.2	20
BG	BLUE	GREEN		3.2	3.2	20

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TABLE- WIRELEADS DESCRIPTION

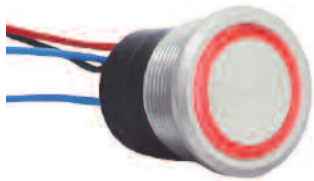
WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINALS		LED 1		LED 2	
		I	O	+	-	+	-
ILLUMINATION	AWG26/UL1007	BLUE	BLUE	RED	BLACK	YELLOW	BROWN
NON-ILLUMINATION		BLUE	BLUE	---	---	---	---

RoHS Compliant	
Yes	No
✓	

TOLERANCES UNLESS OTHERWISE NOTED 3 PLACE DECIMAL ± .018 2 PLACE DECIMAL ± .02 ANGULAR ± 1/2°				 AN ILLINOIS TOOL WORKS COMPANY			
DWG TITLE 58M- PUSH BUTTON, WIRELEADS 500mm							
DATE 1, JULY, '08'		REF: T48-1, 2		SIZE B	DWG NO. 58M-A & 58M-B	REV 1	
DRAWN <i>A.H.</i>	CHK <i>B.C.</i>	APPD <i>~</i>	SUPV <i>P.L.</i>	SCALE : 1.5:1		SHEET 2 OF 2	

PUSHBUTTON SWITCHES

SERIES 58M-EM:



ACTUAL SIZE

FULLY SEALED METAL PUSHBUTTON



FULLY SEALED METAL PUSHBUTTON SWITCHES WITH WIRE LEADS

Built on the proven series 48 platform these rugged switches come in stainless steel or aluminum housings, electro-mechanical with either momentary or maintained action and lighted or unlighted versions. The variety of options in this compact package size make the 58M ideal for many applications: transportation, outdoor controls, security products, food processing and medical products.

KEY FEATURES:

- Momentary or Maintained Action
- Stainless Steel or Aluminum Housing
- Non Lit or Ring Illumination
- Variety of LED colors
- Electro-Mechanical
- Panel Sealed to IP67
- ROHS Compliant
- Gold Plated Contacts

APPLICATIONS

- Outdoor Controls
- Kiosks
- Security Equipment
- Medical Equipment
- Food Processing Equipment
- Military Equipment
- Industrial Machinery
- Transportation: Mass-Transit, Marine, Lift Trucks

ORDERING INFORMATION:

SWITCH FUNCTION:

- A.** MECHANICAL, MOMENTARY, WIRE LEADS
- B.** MECHANICAL, MAINTAINED, WIRE LEADS

HOUSING MATERIAL:

- 1.** STAINLESS STEEL
- 2.** ALUMINUM

BUTTON STYLE:

- 0.** NON-LIT
- 2.** RING ILLUMINATION
- R.** RED, NON-LIT

LED COLOR:

- N.** NONE
- G.** GREEN
- R.** RED
- B.** BLUE
- W.** WHITE

VOLTAGE RESISTOR

- If BLANK *
- 05** 5V FORWARD
- 12** 12V FORWARD
- 24** 24V FORWARD

58M-



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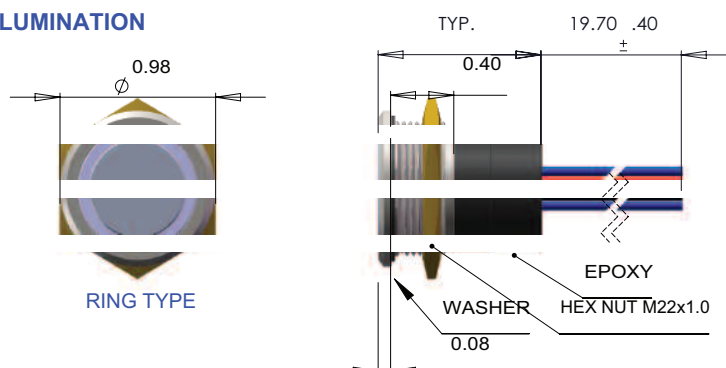
STANDARDS / AGENCY / RATINGS:



* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

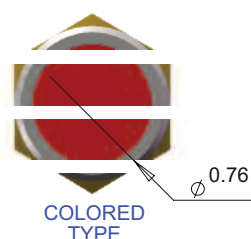
PRODUCT DRAWINGS

ILLUMINATION

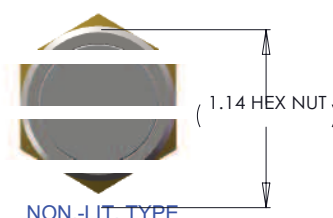


RING TYPE

NON-ILLUMINATION

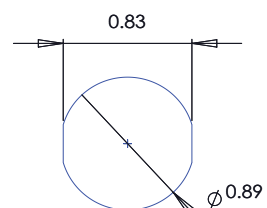


COLORLED TYPE



NON-LIT. TYPE

RECOMMENDED PANEL CUTOUT



WIRELEADS DESCRIPTION

WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL		LED	
		/	0	+	-
ILLUMINATION	AWG26/UL1007	BLUE	BLUE	RED	BLACK
NON-ILLUMINATION		BLUE	BLUE	---	---

MECHANICAL / ELECTRICAL CHARACTERISTICS:

Circuit:

SPST-NO-DB (Form X)

Button travel (nominal):

0.09 inches / 2.3 mm

Operating force (nominal):

3N / 306 grams

Contact bounce (nominal):

1 millisecond

Panel thickness:

0.50" – 0.150" (1.3 – 3.8mm)

Temperature index:

-40°C to +85°C

Torque (max):

10 inch pounds

LED operating temperature:

-13° F to +185° F /

-25° C to +85° C

Current ratings (resistive):

250mA @ 12VDC, 100K cycles

150mA @ 28VDC, 150K cycles
(momentary)

100mA @ 48VDC, 100K cycles

10mA @ 12VDC, 1 million cycles
(momentary)

ELECTRO-MECHANICAL

Dielectric strength:

1,000 VAC

Insulation resistance:

1 GΩ

Contact resistance:

50 mΩ max (initial)

PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 58M mounts easily into panels of minimum 0.50" (1.3 mm) and maximum 0.150" (3.8 mm) thickness. Front panel sealing to IP67 is achieved by a sealing o-ring fitted to the body of the switch before it is inserted into the panel hole cut-out. It is held onto the panel by means of a brass hex nut tightened down to a torque of 10 inch pounds to achieve the correct sealing pressure.

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