

# 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:

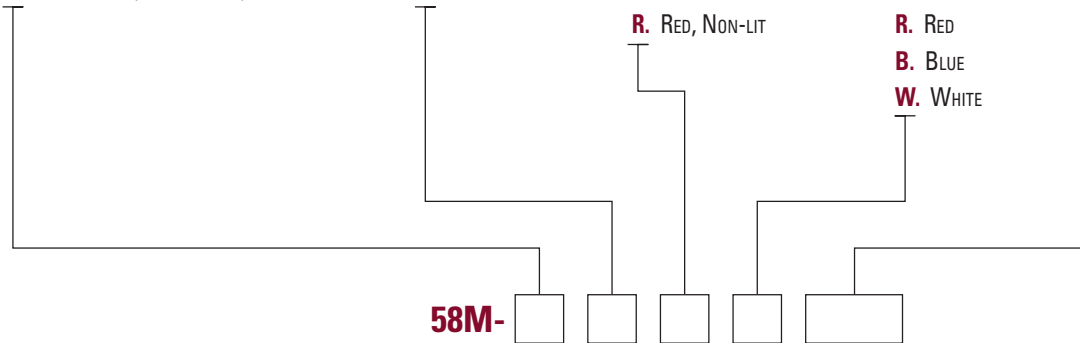
- 0. NON-LIT
- 2. RING ILLUMINATION
- R. RED, NON-LIT

##### 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



#### STANDARDS / AGENCY / RATINGS:



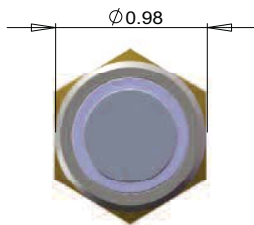
\* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

# SERIES 58M: FULLY SEALED METAL PUSHBUTTON

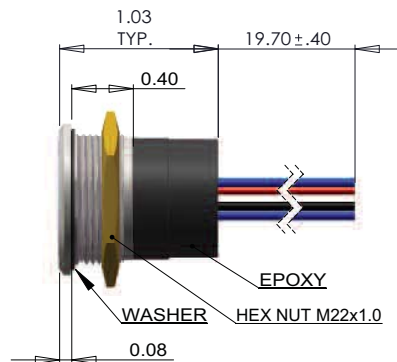
# PUSHBUTTON SWITCHES

## PRODUCT DRAWINGS

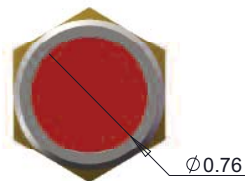
### ILLUMINATION



RING TYPE



### NON-ILLUMINATION

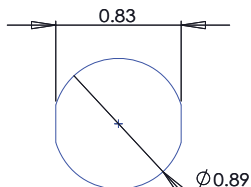


COLORLED TYPE



NON-LIT. TYPE

### RECOMMENDED PANEL CUTOUT



### WIRELEADS DESCRIPTION

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

## 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.



**IN2CONNECT**  
ELECTRONIC CONNECTORS

Designs and specifications are subject to change without notice due to product improvement.

## 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)

In2Connect UK Ltd

Unit L, Tyson Courtyard

Weldon South Industrial Estate

Corby

Northants

NN18 8AZ UK

Tel: 01962 773004

sales@in2connect.uk.com

**ITW Switches**  
SENSORS, SWITCHES, ELECTRONIC CONTROLS

# C58M SERIES - SCREW TERMINALS

### KEY FEATURES:

- Screw Terminals
- Maintained or Momentary Action
- Stainless Steel or Aluminium Housings
- Halo or Non-Illuminated Versions
- Choice of LED colours (or non-illuminated versions)
- Electro-Mechanical
- Panel Sealed to IP67
- RoHS Compliant
- Silver Plated Contacts



### MECHANICAL/ELECTRICAL CHARACTERISTICS

**Circuit:**

SPST-NO-DB (Form X)

**Button Travel (nominal):**

2.3mm (0.09")

**Operating Force (nominal):**

3N (306 grams)

**Contact Bounce (nominal):**

1 millisecond

**Panel Thickness:**

1.3 ~ 3.8mm

**Temperature (Operating):**

-40°C to + 85°C

**Torque (maximum) (Fixing Nut):**

10 inch pounds

**LED Operating Temperature:**

-25°C to + 85°C

**Current Ratings (resistive):**

10mA @ 12VDC, 200,000 cycles (momentary) Nominal

10mA @ 12VDC, 20,000 cycles (maintain) Nominal

**Dielectric Strength:**

1000V AC

**Insulation Resistance**

1 GΩ

**Contact Resistance:**

50 mΩ (Initial)

### C58M Series -

### Miniature Panel Sealed Pushbuttons Screw Terminals

Built on the proven 58M Series, electro-mechanical switches these rugged devices come in both stainless steel or aluminium housings 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.

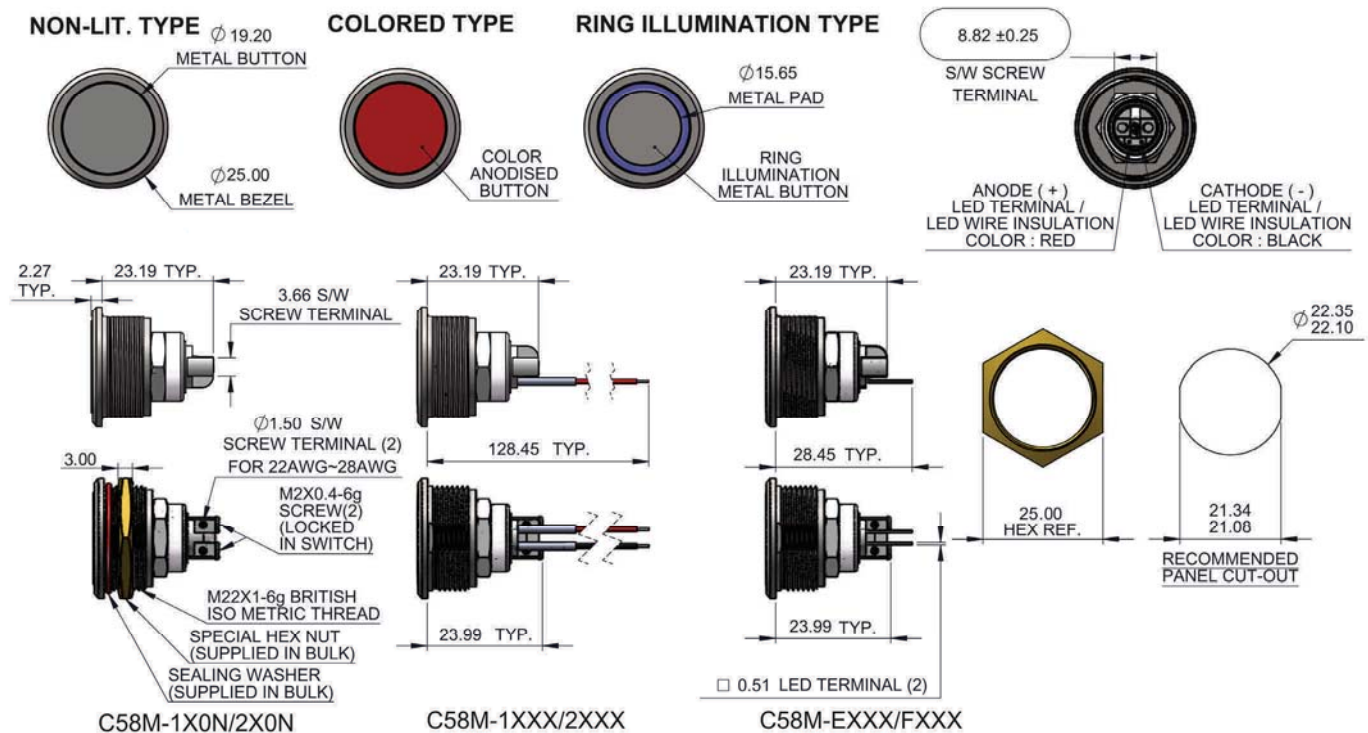
Contact us to learn more about the options available!

### TYPICAL APPLICATIONS:

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

# C58M SERIES - SCREW TERMINALS

### DIMENSIONS & ILLUMINATION OPTIONS:



### 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.

### HOW TO ORDER:

SWITCH FUNCTION CODE	SWITCH FUNCTION DESCRIPTION	HOUSING MATERIAL CODE	HOUSING DESCRIPTION	ILLU. TYPE CODE	ILLUMINATION TYPE DESCRIPTION	LED COLOR CODE	LED COLOR	LED INLET VOLTAGE CODE	LED INLET VOLTAGE
1	MECHANICAL, MOMENTARY, SCREW TERMINAL	1	STAINLESS STEEL	0	NON-ILLUMINATION	N	NONE	IF BLANK*	(SEE NOTE)
2	MECHANICAL, MAINTAINED, SCREW TERMINAL	2	ALUMINUM INHERENT	-	-	G	GREEN	05	5V
E	MECHANICAL, MOMENTARY, SCREW TERMINAL			2	RING ILLUMINATION	R	RED	12	12V
F	MECHANICAL, MAINTAINED, SCREW TERMINAL			R	RED BUTTON, NON-ILLUMINATION	A	AMBER	24	24V
				B	BLUE				
				W	WHITE				
						Y	YELLOW		
						RB	RED/BLUE		
						RG	RED/GREEN		

NOTE:  
 1. COLORED TYPE ONLY CHANGE THE COLOR OF BUTTON, NOT HOUSING.  
 2. COLORED BUTTON TYPE ONLY SUPPLY FOR NONE ILLUMINATION TYPE