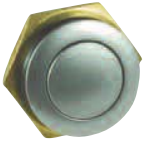


### SERIES 57M-EM:



ACTUAL SIZE



### MINIATURE PANEL SEALED METAL PUSHBUTTON SWITCHES

The 57M is a miniature switch designed for rugged environments. The housing is zinc alloy with velour chrome plating. It is available as maintained or momentary action, Electro-mechanical operation with Gold plated contacts and solder terminals. It is ideal for a multitude of applications.

#### KEY FEATURES:

- Zinc Alloy/Velour Chrome Plated
- Center Spot LED and Non-Lighted Versions
- Maintained or Momentary Action
- Panel Sealed to IP67
- RoHS Compliant
- Electro-Mechanical
- Gold Plated Contacts and Terminals

#### APPLICATIONS

- Security Equipment
- Industrial Control
- Medical Equipment
- Military Equipment
- Food Processing
- Transportation
- Computers

#### ORDERING INFORMATION:

##### SWITCH FUNCTION:

1. MECHANICAL, MOMENTARY, SOLDER TERMINAL
2. MECHANICAL, MAINTAINED, SOLDER TERMINAL
5. MECHANICAL, MOMENTARY, PC TERMINAL
6. MECHANICAL, MAINTAINED, PC TERMINAL
- A. MECHANICAL, MOMENTARY, WIRE LEADS
- B. MECHANICAL, MAINTAINED, WIRE LEADS
9. SPECIAL, DIGITS ARE IN SERIAL ORDER

##### HOUSING MATERIAL:

1. ZINC ALLOY, VELOUR CHROME PLATED
2. ZINC ALLOY, MIRROR BLACK

##### ILLUMINATION:

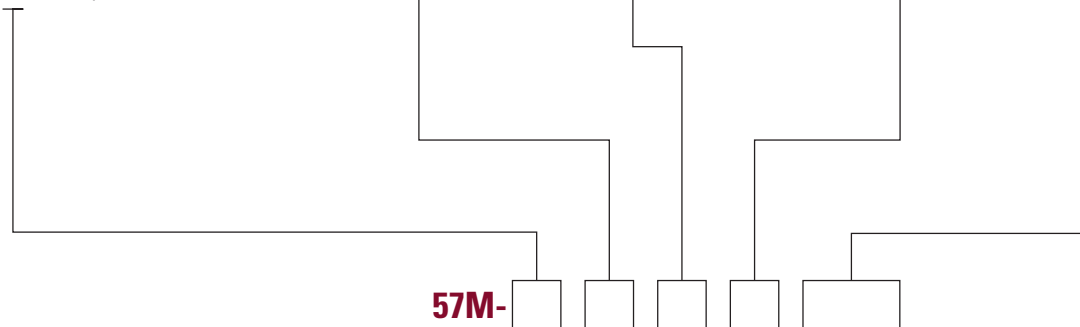
0. NON-LIT
1. CENTER SPOT ILLUMINATION
2. RING ILLUMINATION
3. STANBY LOGO ILLUMINATION

##### LED COLOR:

- N. NONE
- G. GREEN L.E.D.
- R. RED L.E.D.
- A. AMBER L.E.D.
- B. BLUE L.E.D.
- W. WHITE L.E.D.

##### VOLTAGE RESISTOR

If BLANK \*  
05 5V FORWARD

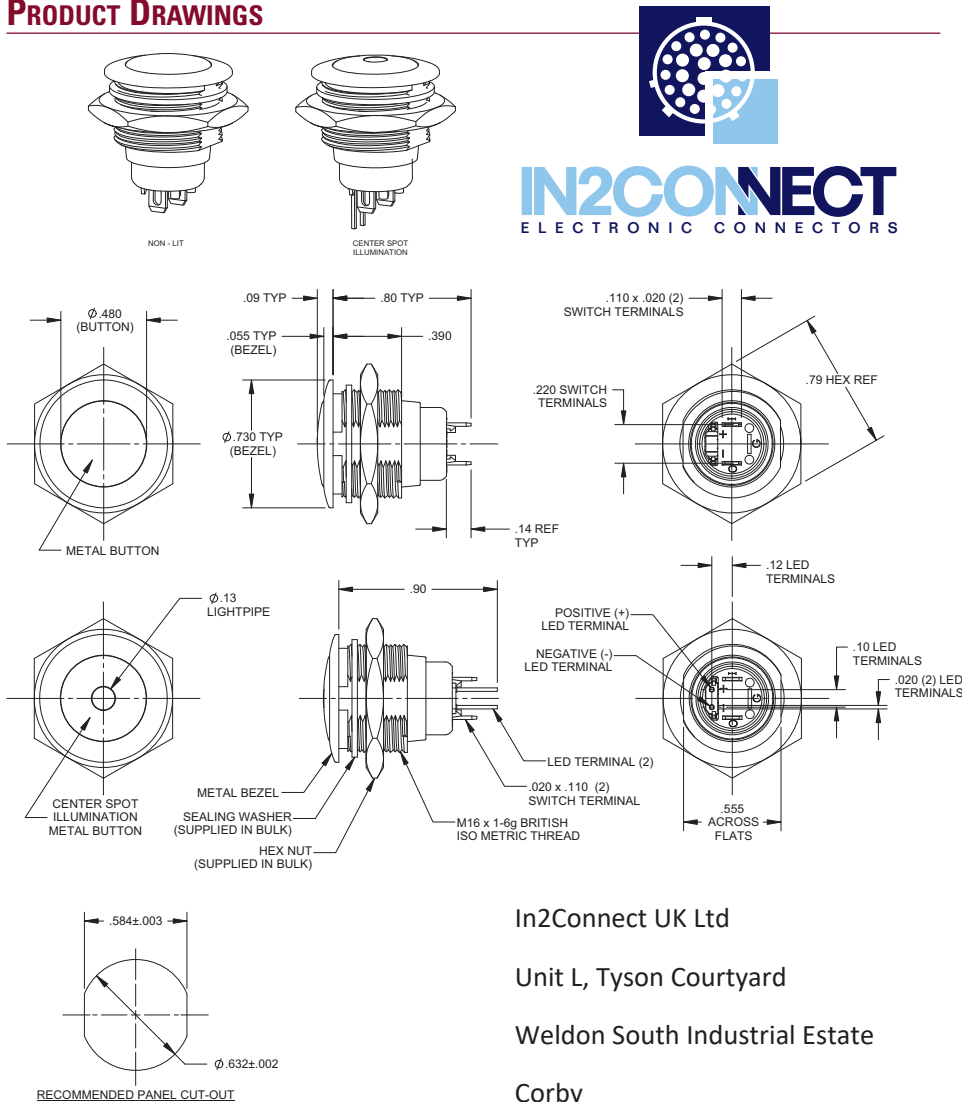


\* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

#### STANDARDS / AGENCY / RATINGS:



## PRODUCT DRAWINGS



In2Connect UK Ltd  
 Unit L, Tyson Courtyard  
 Weldon South Industrial Estate  
 Corby  
 Northants  
 NN18 8AZ UK  
 Tel: 01962 773004  
 sales@in2connect.uk.com

## MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:**  
SPST-NO-DB
- Button travel (nominal):**  
0.09 inches / 2.3 mm
- Operating force (nominal):**  
3N / 306g
- Contact bounce (nominal):**  
1 millisecond
- Panel thickness:**  
0.20 – 0.120 inches /  
0.5 – 3mm
- 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:**

## PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 57M mounts easily into panels of minimum 0.20" (0.5mm) and maximum 0.120" (3mm) thicknesses. Front panel sealing to IP67 is achieved by a sealing washer which is fitted to the body of the switch before it is inserted into the panel hole cutout. 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.

# C57M SERIES - SCREW TERMINALS

### KEY FEATURES:

- Screw Terminals
- Zinc Alloy/Velour Chrome Plated/Black Chrome Housing
- Centre Spot, Halo, Standby Logo LED and Non-Illuminated Versions
- Maintained or Momentary Action
- Choice of LED colours (or non-illuminated versions)
- Panel Sealed to IP67
- RoHS Compliant
- Electro-Mechanical
- Silver Plated Contacts and Terminals



### MECHANICAL/ELECTRICAL CHARACTERISTICS

**Circuit:**

SPST-NO-DB

**Button Travel (nominal):**

2.3mm (0.09")

**Operating Force (nominal):**

3N (306 grams)

**Contact Bounce (nominal):**

1 millisecond

**Panel Thickness:**

0.5 ~ 3.0mm

**Temperature (Operating):**

-40°C to + 85°C

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

10 inch pounds

**LED Operating Temperature:**

-25°C to + 85°C

**Current Ratings:**

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

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

**Dielectric Strength:**

1000V AC

**Insulation Resistance**

1 GΩ

**Contact Resistance:**

50 mΩ (Initial)

### C57M Series -

### Miniature Panel Sealed Pushbuttons Screw Terminals

The 57M Series is a miniature switch designed for rugged environments.

The housing is zinc alloy with velour chrome plating.

The family is available in maintained or momentary Electro-mechanical operation, with either Gold plated contacts and solder terminals or with Silver plated contacts with Screw Terminals.

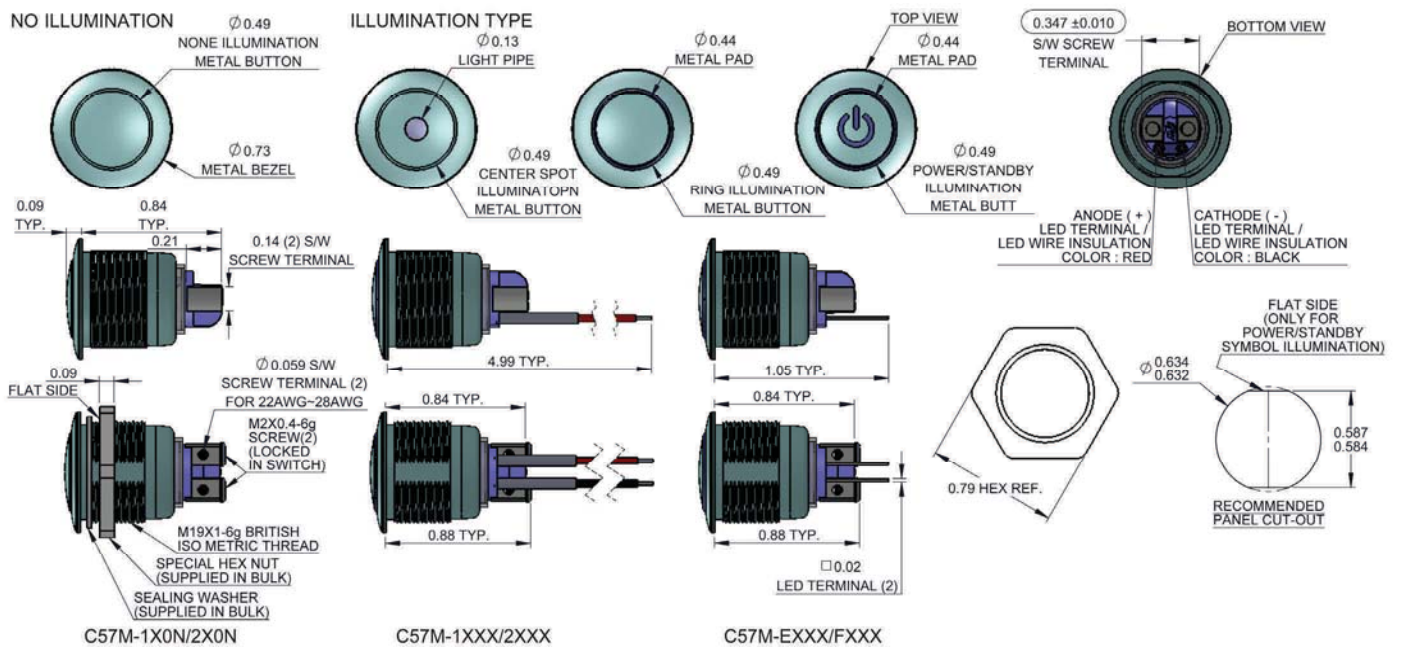
Contact us to learn more about the options available!

### TYPICAL APPLICATIONS:

- Security Equipment
- Industrial Control
- Medical Equipment
- Military Equipment
- Food Processing
- Transportation
- Computers

# C57M SERIES - SCREW TERMINALS

### DIMENSIONS & ILLUMINATION OPTIONS:



### How To ORDER:

C57M - X X X X X X									
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	ZINC ALLOY, VELOUR CHROME PLATED	0	NONE ILLUMINATION	N	NONE	IF BLANK*	(SEE NOTE)
2	MECHANICAL, MAINTAINED, SCREW TERMINAL	2	ZINC ALLOY, MIRROR BLACK	1	CENTER SPOT ILLUMINATION	G	GREEN	05	5V
E	MECHANICAL, MOMENTARY, SCREW TERMINAL	3	ZINC ALLOY, MATT BLACK	2	RING ILLUMINATION	R	RED		
F	MECHANICAL, MAINTAINED, SCREW TERMINAL	4	STAINLESS STEEL, NATURAL	3	POWER/STANDBY SYMBOL ILLUMINATION	A	AMBER		
						B	BLUE		
						W	WHITE		
						Y	YELLOW		
						RB	RED/BLUE		
						RG	RED/GREEN		

NOTE:  
 1. ONLY SUPPLY C57M-1X0N / C57M-2X0N FOR NONE ILLUMINATION TYPE SWITCHES  
 2. THE USABLE WIRE-LEADS IS 22AWG TO 28AWG