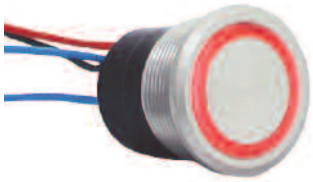
SERIES 58M-EM:



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 RESISTER
- IF BLANK *
- **05** 5V FORWARD
- **12** 12V FORWARD
- **24** 24V FORWARD

58M- ☐ ☐ ☐ ☐ ☐

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

STANDARDS / AGENCY / RATINGS:

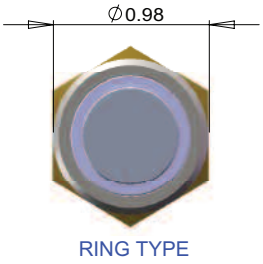
RoHS COMPLIANT 2002 / 95 / EC

IEC IP67 COMPLIANT

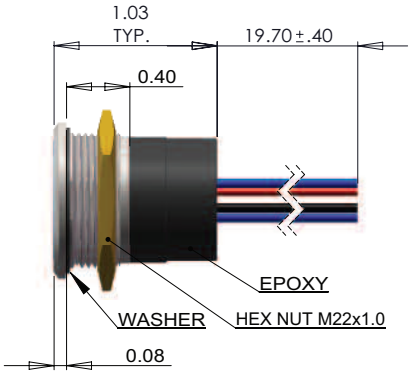
Contact an Authorized Distributor or Factory for Pricing

Product Drawings

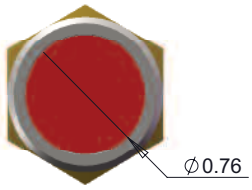
ILLUMINATION



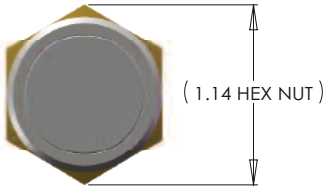
RING TYPE



NON-ILLUMINATION

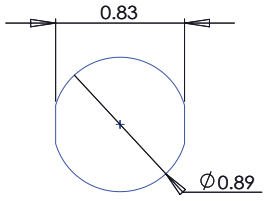


COLORED TYPE



NON.-LIT. TYPE

RECOMMENDED PANEL CUTOUT



WIRELEADS DESCRIPTION

WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL		LED	
		/	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.

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)

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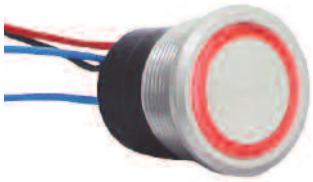
SERIES 58M-SS:



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, solid state 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
- Solid State
- 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:
- **C.** SOLID STATE, , MOMENTARY, WIRE LEADS
- **D.** SOLID STATE, , 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 RESISTER
- IF BLANK *
- **05** 5V FORWARD
- **12** 12V FORWARD
- **24** 24V FORWARD

58M- ☐ ☐ ☐ ☐ ☐

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

STANDARDS / AGENCY / RATINGS:

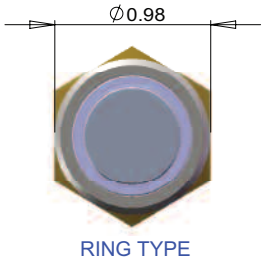
RoHS COMPLIANT 2002 / 95 / EC

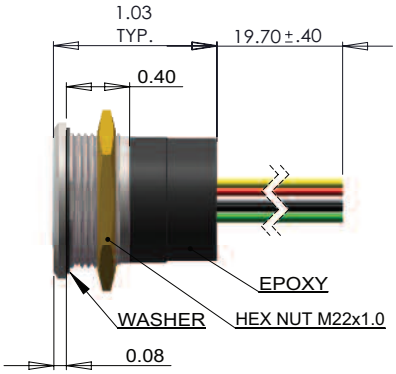
IEC IP67 COMPLIANT

Contact an Authorized Distributor or Factory for Pricing

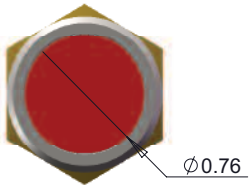
Product Drawings

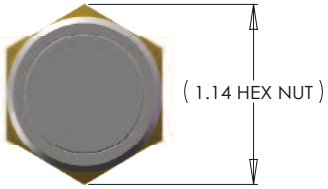
ILLUMINATION



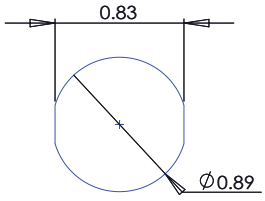


NON-ILLUMINATION





RECOMMENDED PANEL CUTOUT



WIRELEADS DESCRIPTION

WIRELEADS TYPE	WIRELEADS SPECIFICATION	SW TERMINAL			LED	
		I	O	G	+	-
ILLUMINATION	AWG26/UL1007	YELLOW	GREEN	WHITE	RED	BLACK
NON-ILLUMINATION		YELLOW	GREEN	WHITE	---	---

Mechanical / Electrical Characteristics:

Circuit:
SPST-NO-DB (Form X)

Button travel (nominal):
0.09 inches / 2.3 mm

Life (mechanical) (nominal):
1,000,000 cycles (momentary)
100,000 cycles (maintained)

Operating force (nominal):
3N / 306 grams

Panel thickness:
0.02 – 0.12 inches / 0.5 – 3mm

Temperature index:
-40°F to + 185°F

Supply voltage:
4.2V to 24V, 26.5V Max.

Supply current:
B<Brp, Vcc=12V: 3mA Typ.
To 8mA Max.
B>Bop, Vcc=12V: 4mA Typ.
To 8mA Max.

Output current:
20 mA

Reverse battery voltage:
-30V Max.

Reverse output current:
-50mA Max.

Torque (max):
10 inch pounds

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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