Series H58M

22MM, PANEL SEALED 10 AMP METAL PUSHBUTTON

These rugged electromechanical pushbuttons come in stainless or aluminum housings, momentary or maintained actions and available with lighted ring option. The 22mm size makes the H58M ideal for many applications in the transportation, security, food processing and industrial control markets.



ACTUAL SIZE

APPLICATIONS

- Industrial Machinery
- Access Controls
- Food Processing Equipment
- Mass Transportation
- Lift Trucks
- Military/Aerospace

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
- 16-4044 & 16-530004 & 16-40443 (UL and CSA Certified): SPDT Form Z, Silver contacts

ORDERING INFORMATION:

Switch Function:
1 Mechanical, Momentary
2 Mechanical, Maintained

Housing Material:
1 Stainless Steel
2 Aluminum

Button Style:
0 Non-lit
2 Ring Illumination
3 Standby Logo Illumination
R Red, Non-lit

LED Color:
N None
G Green
R Red
A Amber
B Blue
W White
RB Red / Blue
RG Red / Green

Voltage Resistor:
If Blank*
05 5V Forward
12 12V Forward
24 24V Forward

Series 16 Switch:
/4044 Silver Solder Terminals
/530004 Bottom QC.110 Terminals
/40443 Silver Alloy Solder Terminals

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

LED forward voltage:
– Green, Blue & White: 3.4 V

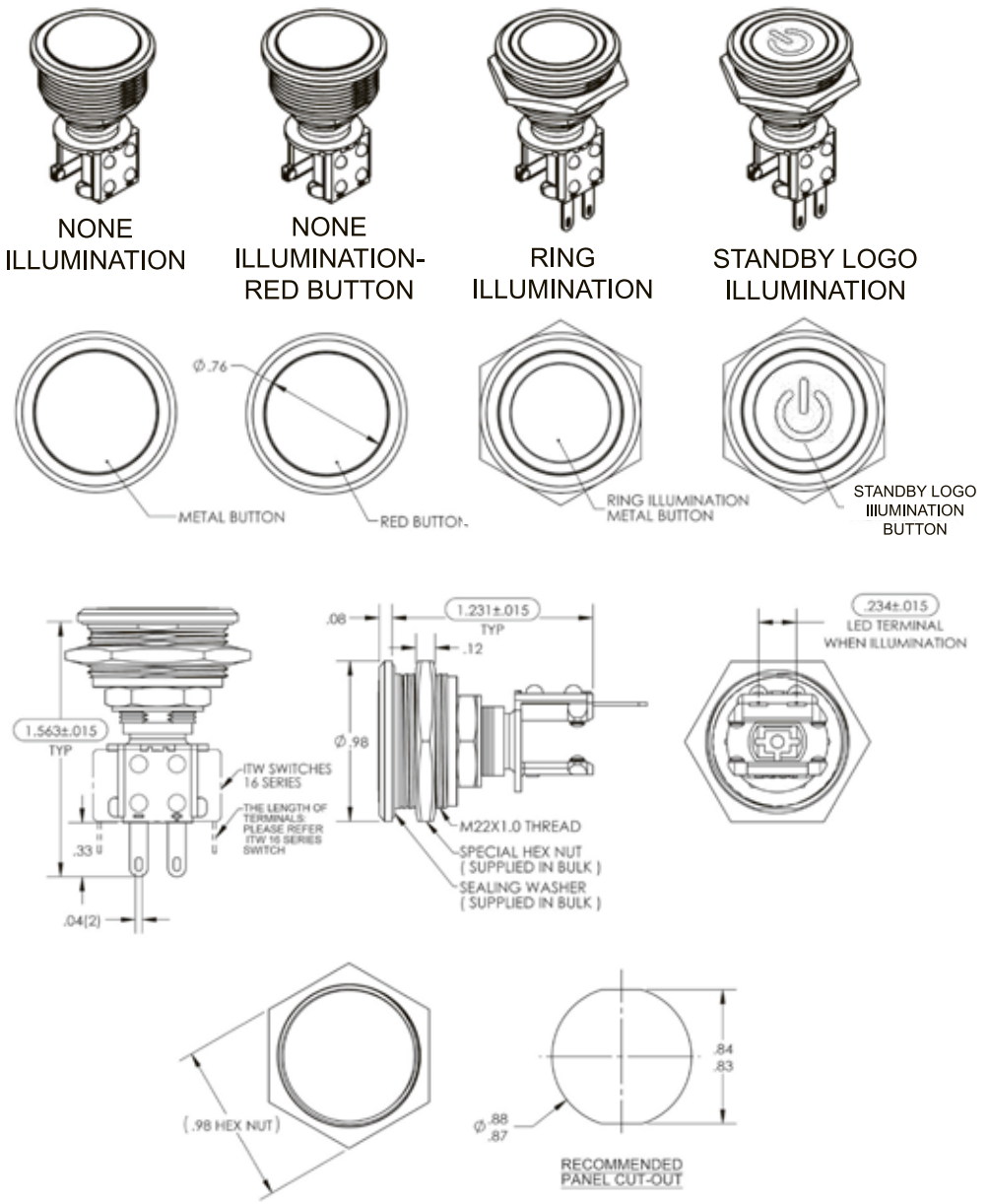
STANDARDS / AGENCY / RATINGS:

RoHS COMPLIANT 2002 / 95 / EC

IEC IP67 COMPLIANT

SERIES H58M: 22MM PANEL SEALED METAL PUSHBUTTON

PRODUCT DRAWINGS



MECHANICAL / ELECTRICAL CHARACTERISTICS:

Circuit:
SPDT-DB (Form Z)

Button travel (nominal):
0.09 inches (2.3 mm)

Operating force (nominal):
5.2N (520 grams)

Contact bounce (nominal):
1 millisecond

Panel thickness:
0.020"– 0.177" (0.5 – 4.5 mm)

Temperature index:
-40° C to +85° C (momentary)
-40° C to +65° C (maintained)

Torque (max):
10 inch pounds

LED operating temperature:
-13° F to +185° F
(-25° C to +85° C)

Current ratings:
10A @ 125/250 VAC (res)
10A @ 28 VDC (ind)

Actuator life (nominal):
500,000 cycles (momentary)
50,000 cycles (maintained)

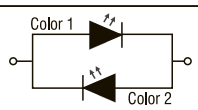
ELECTRICAL SPECIFICATIONS

Dielectric strength:
1,000 VAC

Insulation resistance:
1 GΩ

Contact resistance:
50 mΩ max (initial)

LED SPECIFICATIONS

LED CODE	LED		CIRCUITRY	Vf(VDC)		If
	Color 1	Color 2		Color 1	Color 2	(mA)
A	AMBER	—		1.6~2.0	—	20
R	RED	—		1.6~2.0	—	20
Y	YELLOW	—		1.6~2.0	—	20
B	BLUE	—		2.8~3.4	—	20
G	GREEN	—		2.8~3.4	—	20
W	WHITE	—		2.8~3.4	—	20
RB	RED	BLUE		1.6~2.0	2.8~3.4	20
RG	RED	GREEN		1.6~2.0	2.8~3.4	20

Notes:
1.) Lead Soldering Temperature (4mm form body) : 280°C for 5 seconds
2.) Head Soldering Temperature (4mm form body) : 280°C for 3 seconds

PANEL MOUNTING INFORMATION

The series H58M mounts easily into panels of minimum 0.020" (0.5 mm) and maximum 0.177" (4.5 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 metal hex nut tightened down to a torque of 10 inch pounds to achieve the correct sealing pressure. The Basic Switch (16-4044 or 16-530004) has to be installed after the pushbutton actuator is firmly secured to specified torque onto the panel.