

SERIES 48EM:



ACTUAL SIZE



FLEX-TECH MINIATURE SEALED PUSHBUTTON SWITCHES

This rugged multi-option sealed pushbutton series offers the utmost in choices of mounting styles, colors, terminations, bezels, lighting and momentary or alternate-action switching. The Series 48 offers all these options in one compact package size.

KEY FEATURES:

- Momentary or maintained action
- Gold contacts
- Many button colors
- Choice of LED colors (or non-lighted versions)
- Long life
- Solder or PC terminals
- Panel sealed to IP 67

APPLICATIONS

- Office equipment
- Medical equipment
- Industrial machinery
- Outdoor controls
- Mass transportation
- Food processing equipment

ORDERING INFORMATION:

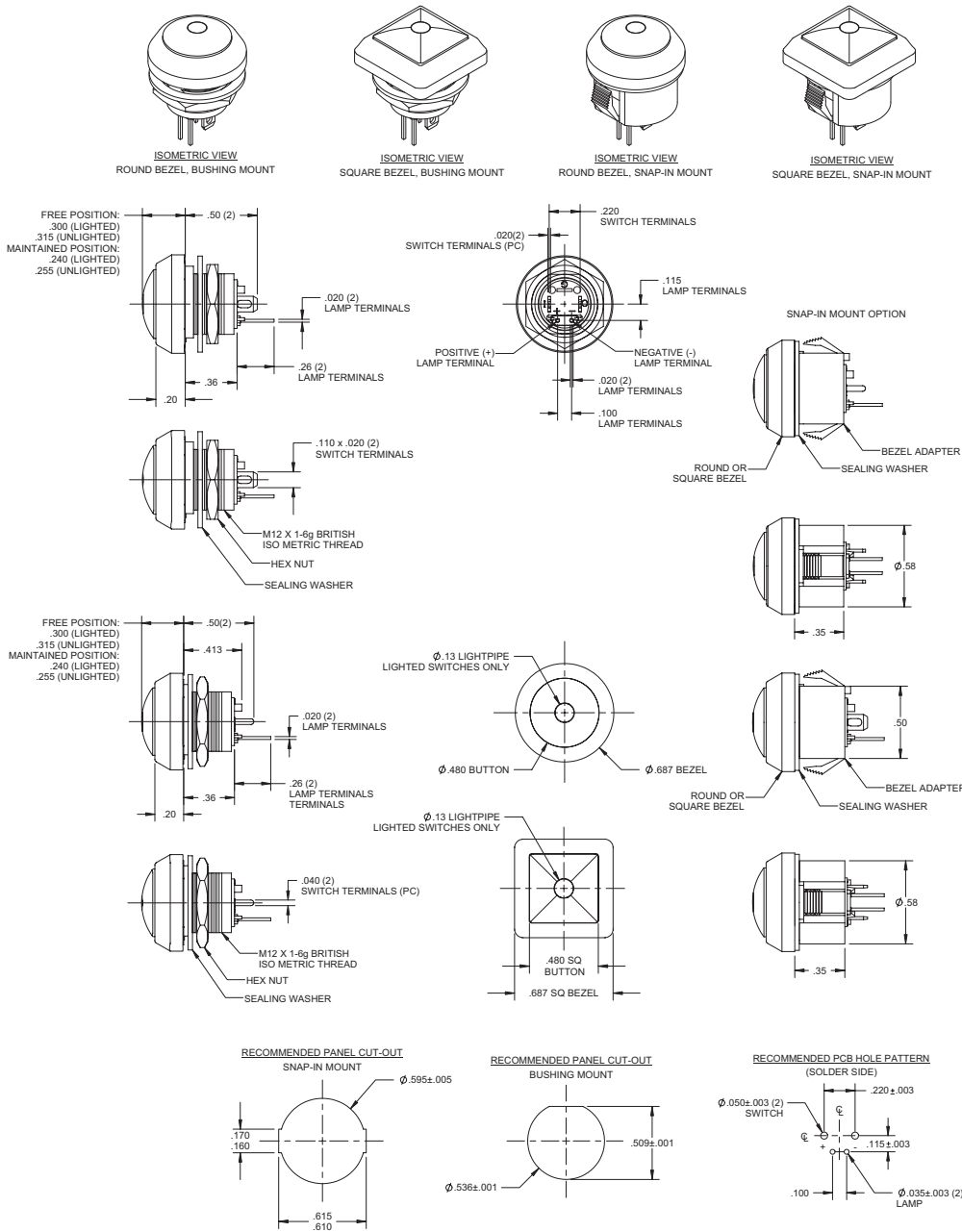
| Switch Function | Switch Termination | Module Type | Bezel Type | LED Color | Button Color | Mounting Type | Voltage Resistor |
|-----------------|--------------------|-------------|----------------------------|-------------------|---------------------------------------|---------------------|------------------------|
| Momentary | Solder Tabs | 48-1 | RB - Round, Black | N - None | RD - Red | B - Bushing | If Blank* |
| Maintained | Solder Tabs | 48-2 | SB - Square, Black | R - Red | GR - Green | S - Snap-fit | 05 - 5V forward |
| Momentary | PC | 48-5 | RC - Round, Chrome | G - Green | BK - Black | | |
| Maintained | PC | 48-6 | SC - Square, Chrome | Y - Yellow | BL - Blue | | |
| Momentary | Wire Leads | 48-A | | A - Amber | YL - Yellow | | |
| Maintained | Wire Leads | 48-B | | B - Blue | OR - Orange | | |
| | | | | W - White | CR - Chrome | | |
| | | | | | PK - Black with Standby Symbol | | |
| | | | | | WH - White | | |

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

STANDARDS / AGENCY / RATINGS:



PRODUCT DRAWINGS



MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:** SPST-NO-DB
- Button travel (nominal):** 0.09 inches / 2.3 mm
- Operating force (nominal):** 3N / 306 grams
- Contact bounce (nominal):** 1 millisecond
- Panel thickness:** 0.02 – 0.12 inches / 0.5 – 3mm
- Temperature index:** -40° F to + 185° F
- 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)
- Dielectric strength:** 1,000 VAC
- Insulation resistance:** 1G OHM
- Contact resistance:** 50 mΩ max (initial)
- Torque (max):** 10 inch pounds