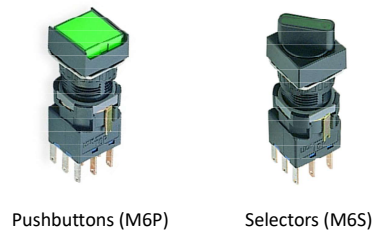


**M6 Series
Pushbutton**
◆ Features

- ✓ For front panel cut-outs measuring $\varnothing 16.2\text{mm}$
- ✓ IP65 & V-0 rated enclosure
- ✓ Solder/plug-in #110 (2.8mm) terminals
- ✓ PCB (0.8w x 0.5t) terminals
- ✓ Tough and durable plastic body with fiber glass
- ✓ Positive opening E-Stop Pushbuttons


◆ Recognition(s)

- ✓ CE – EN60947
- ✓ CSA – 6241 90
- ✓ RoHS Compliant
- ✓ Reach Unaffected


◆ Characteristics

| Positive Opening | Electrical Contact | Terminal Type | Contact Form(s) | Poles & Throws | Actuation Sequence(s) |
|------------------|--------------------|---------------|-----------------|----------------|-----------------------|
|------------------|--------------------|---------------|-----------------|----------------|-----------------------|

| | | | | | |
|----------|-------|---|--|--|--|
| Yes & No | Max 9 | Solder/Plug-in (#110), or PCB (0.8w x 0.5t) | M6L= <i>not applicable</i> M6P=1 or 2 "C" M6S=1 or 2 "C" M6K=1 or 2 "C" M6Z= <i>not applicable</i> M6E=1 or 2 "B" | M6L= <i>not applicable</i> M6P=SPDT/DPDT M6S=SPDT/2*SPDT/DPDT M6K=SPDT/2*SPDT/DPDT M6Z= <i>not applicable</i> M6E=SPST-NC/DPST-NC | Break(1)-Make(2), DB(1)-DM(2), Single Break, Double Break |
|----------|-------|---|--|--|--|

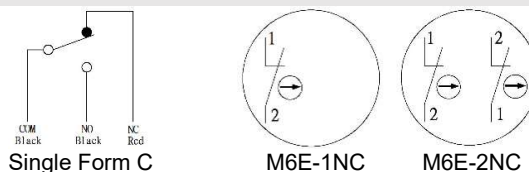
| Operating Temp. | AC Rated | DC Rated | Oil Resist | Dust Resist | Water Resist | IP |
|-----------------|----------------|------------------|------------|-------------|--------------|----|
| -25 to 55 C | Switch=2A 250V | Switch=0.4A 125V | Yes | Yes | Yes | 65 |

| Operation Frequency | Service Life (min.) | Dielectric Strength |
|---|---|---|
| Momentary~1800/hr Alternate~1200/hr Selector~1200/hr E-Stop~600/hr | Momentary=2,000,000 Alternate=250,000 Selectors=250,000 E-Stop=100,000 | Between live part and ground=2500Vac, 1min Between terminals of different poles=2500Vac, 1min Between terminals of the same poles=1000Vac, 1min |

| Operating Humidity | Contact Resistance | Insulation Resistance | Vibration |
|--------------------|-----------------------------|-----------------------------|----------------------------|
| 85% RH max | 50m Ω max. (initial) | 100M Ω min. (500VDC) | 1.5mm amplitude at 10-55Hz |

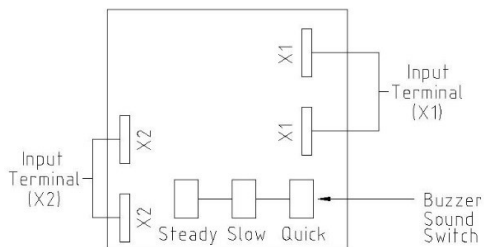
Recommended tightening forces

| Purpose | Screw type | Tightening |
|-------------|------------|--------------|
| Panel mount | Lock Ring | 0.88 N·m MAX |

Circuitry


| Additional Characteristics: Internal Illumination Lamps | |
|---|---------------|
| LED (DC) | 6 Vdc 25mA |
| | 12 Vdc 25mA |
| | 24 Vdc 25mA |
| Neon (AC) | 110 Vac 1.2mA |
| | 220 Vac 1.2mA |

| Additional Characteristics: Buzzer (inside M6Z) | |
|--|---|
| Sound types: (select type at bottom of unit): | Steady sound, Quick cycle (600cycles/min), Slow cycle (100cycles/min) |
| Sound Pressure: | 80dB min. |
| Sound Frequency: | 2KHz±500HZ |
| Insulation Voltage: | 60V AC/DC |
| Operating Voltage: | 6V AC/DC, 12~24V AC/DC |
| Current Draw: | DC=7mA AC=20mA |
| Operating Temperature: | -25 to 55 C |
| Operating Humidity | 85% RH max |
| Insulation Resistance | 100MΩ min. (500VDC) |
| Dielectric Strength | Between live and dead part=1000Vac, 1min |
| Vibration | 1.5mm amplitude at 10-55Hz |
| Service Life (min.) | 1000 hours |



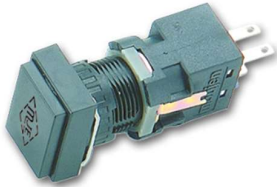
Buzzer unit bottom view:

◆ Materials

| Actuation touch part | Electrical contact point | Enclosure |
|----------------------|------------------------------|--------------------------------------|
| PC Plastic | Palladium plated silver(99%) | PBT Plastic+Glass fiber (V-0 rating) |

M6

| Buzzers | Frame: | Operating Voltage: | Terminal: |
|--------------|-------------------------------------|--|--|
| M6Z – | | 24 | S |
| ø16mm | Blank =Rectangular (18x24mm) | 06 =6V AC/DC 24 =12~24V AC/DC | S =Solder/Plug-in (#110) P =PCB (0.8w x 0.5t) |

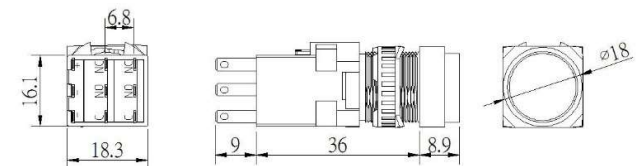
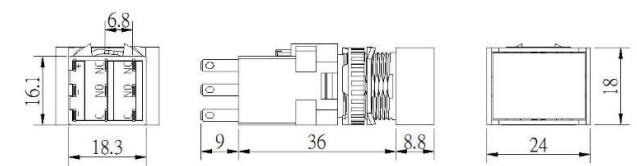
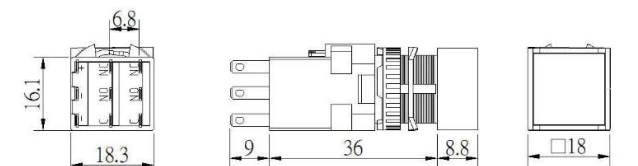
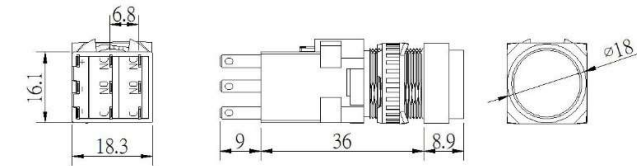
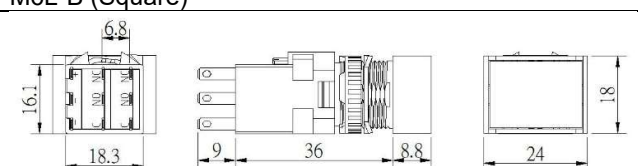
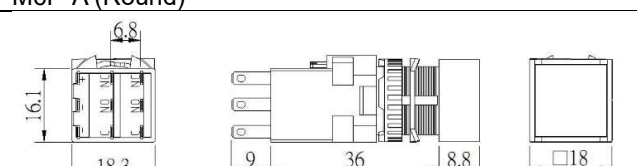
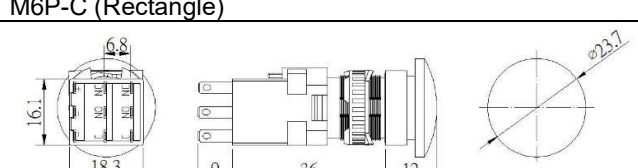
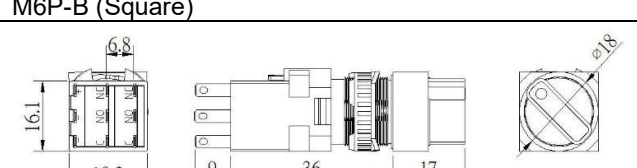
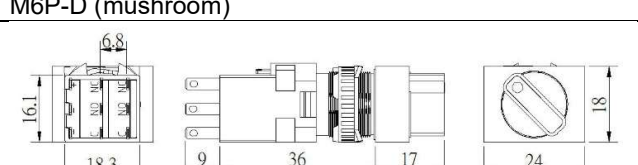
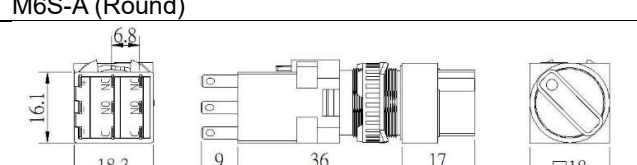
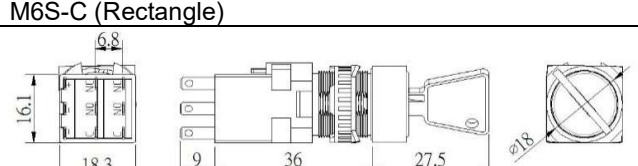
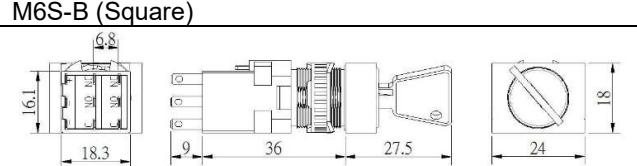
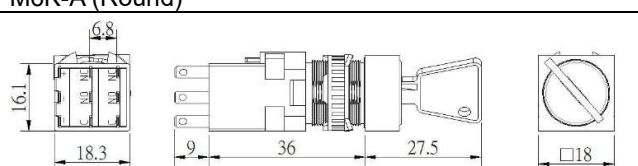
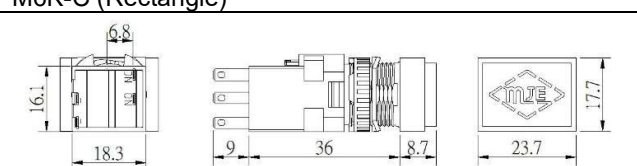
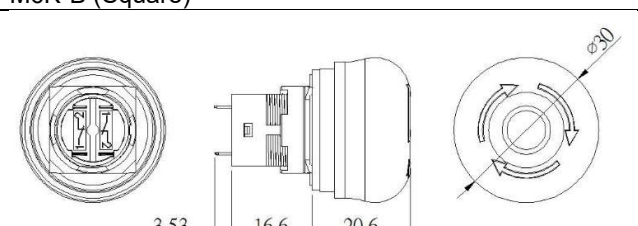
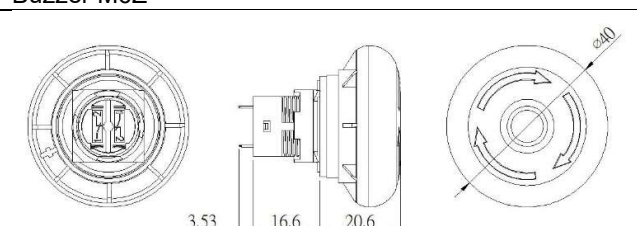


| E-Stop Pushbuttons | Positive Opening: | Terminal: | Contact Form(s): | Button Size: | Lens Color: |
|---|----------------------------|---------------------------------|--|--------------------------------------|-----------------------------------|
| M6E – | P | S | 1 | 40 | R |
| ø16mm, Positive Opening SPST-NC or DPST-NC | P =Positive Opening | S =Solder/Plug-in (#110) | 1 =1x Form B (SPST) 2 =2x Form B (DPST) | 30 =ø30mm 40 =ø40mm | R =Red Y =Yellow |



◆ Unit Dimensions

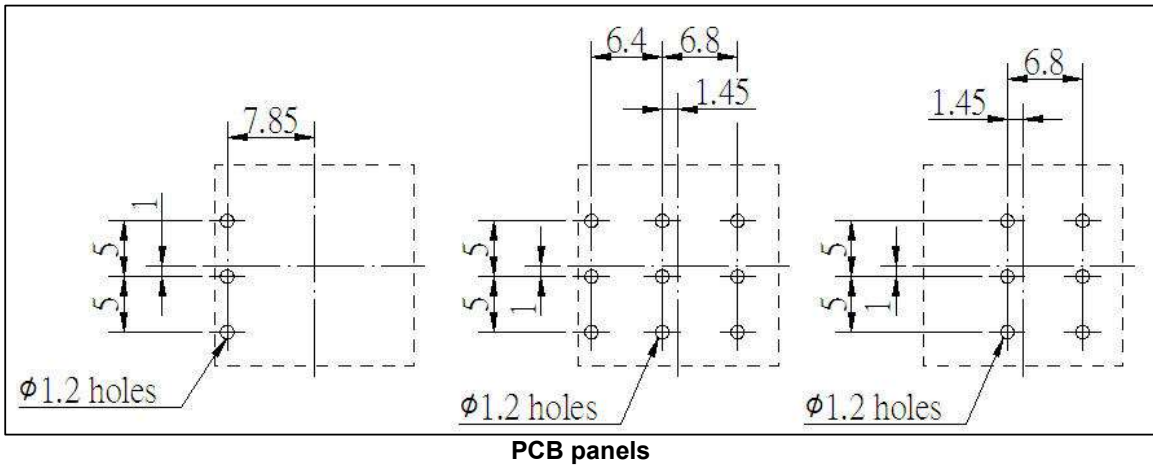
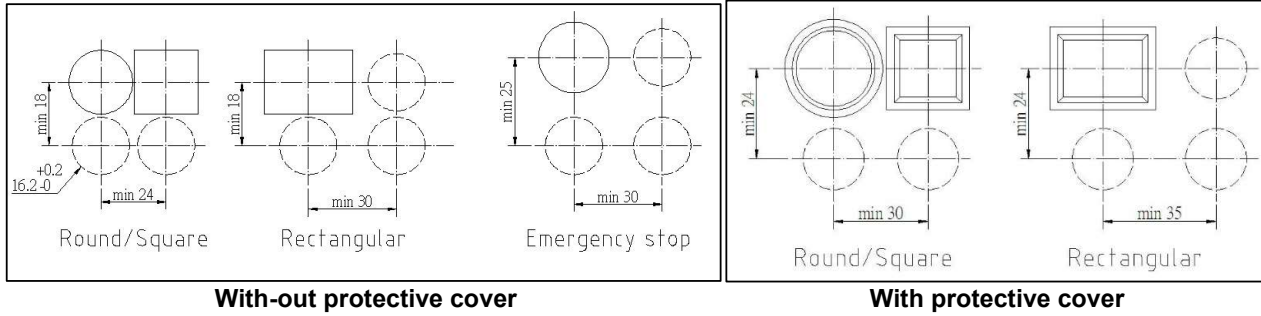
 *Measurements in *millimeters*

| | |
|---|--|
|  <p>M6L-A (Round)</p> |  <p>M6L-C (Rectangle)</p> |
|  <p>M6L-B (Square)</p> |  <p>M6P-A (Round)</p> |
|  <p>M6P-C (Rectangle)</p> |  <p>M6P-B (Square)</p> |
|  <p>M6P-D (mushroom)</p> |  <p>M6S-A (Round)</p> |
|  <p>M6S-C (Rectangle)</p> |  <p>M6S-B (Square)</p> |
|  <p>M6K-A (Round)</p> |  <p>M6K-C (Rectangle)</p> |
|  <p>M6K-B (Square)</p> |  <p>Buzzer M6Z</p> |
|  <p>E-Stop M6E-30mm</p> |  <p>E-Stop M6E-40mm</p> |

◆ **Panel cut-outs**

*Measurements in *millimeters*

△ All M6-series products fits best in a circular panel cut out that measures 16.2mm in diameter, with a thickness of 2~3mm. Damage and bad operation may occur to product if installed into incorrect diameter through-holes and incorrect tightening forces.



◆ **Terminal Dimensions**

*Measurements in *millimeters*

