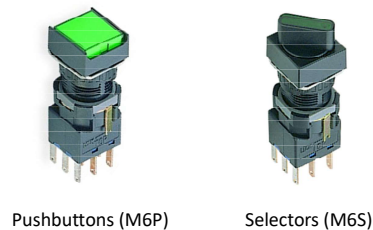


**M6 Series
Pushbutton**
◆ Features

- ✓ 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 |

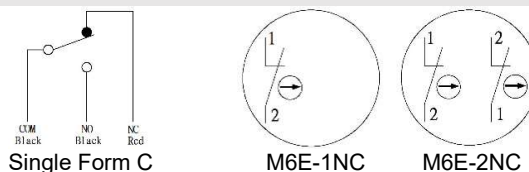
| Operating Temp. | AC Rated | DC Rated | Oil Resist | Dust Resist | Water Resist | IP |
|-----------------|----------------|------------------|------------|-------------|--------------|----|
| -25 to 55 C | Switch=2A 250V | Switch=0.4A 125V | Yes | Yes | Yes | 65 |

| 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 |

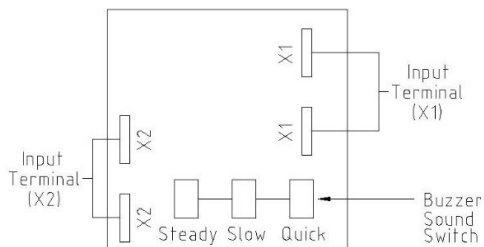
Recommended tightening forces

| 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) |

◆ Nomenclature

| Pilot Light | Frame: | Terminal: | Lamp: | Lens Color: |
|--------------|----------|-----------|------------|-------------|
| M6L – | A | S | 24E | G |

ø16mm

A=Circle (ø18mm)
B=Square (18x18mm)
C=Rectangular (18x24mm)

S=Solder/Plug-in (#110)
P=PCB (0.5t)

Neon (AC)
110=110Vac
220=220Vac

LED (DC)
06E=6Vdc
12E=12Vdc
24E=24Vdc

R=Red
G=Green
Y=Yellow
O=Orange
W=White
B=Blue



| (illum & non-illum) Pushbuttons | Frame: | Actuation: | Terminal: | Contact Form(s): | Lamp: | Lens Color: |
|---------------------------------|----------|------------|-----------|------------------|-------|-------------|
| M6P – | A | M | S | 2 – | | G |

ø16mm

SPDT or DPDT

A=Circle (ø18mm)
B=Square (18x18mm)
C=Rectangular (18x24mm)

M=Momentary
A=Alternate (maintained)

S=Solder/Plug-in (#110)
P=PCB (0.8w x 0.5t)

1=1x Form C
2=2x Form C

Blank
 =Non-illum

Neon (AC)
110=110Vac
220=220Vac

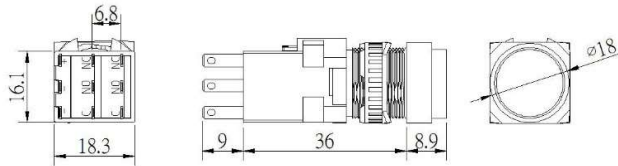
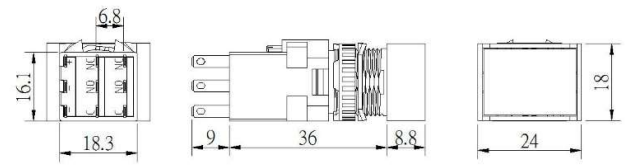
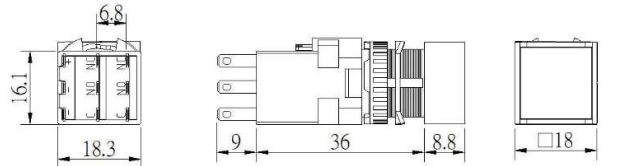
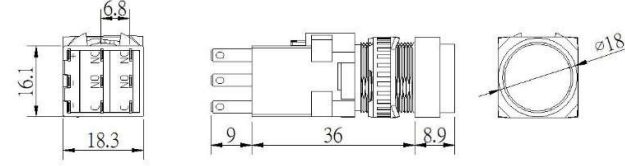
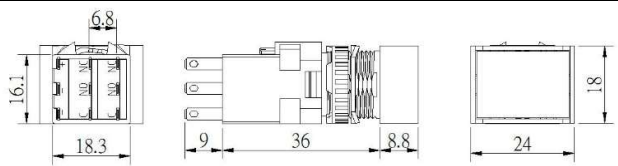
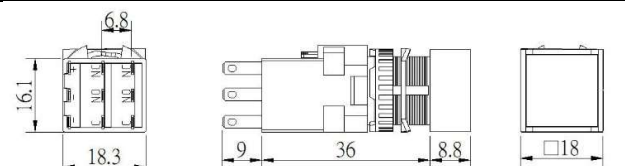
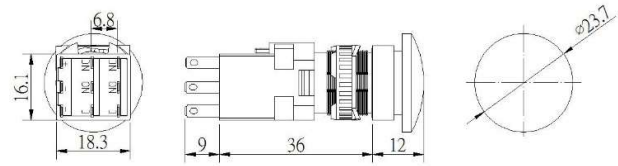
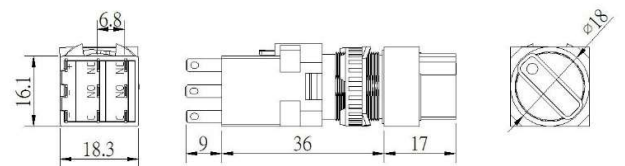
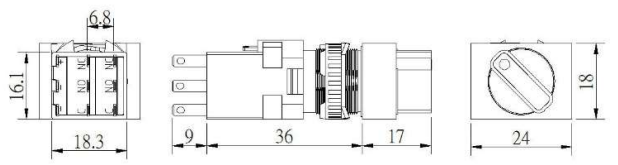
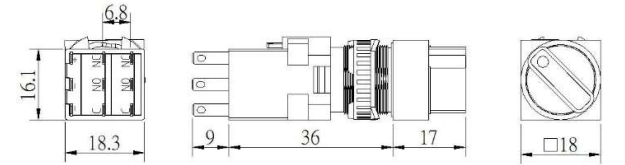
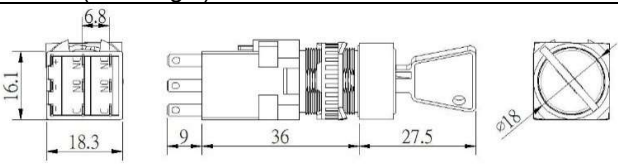
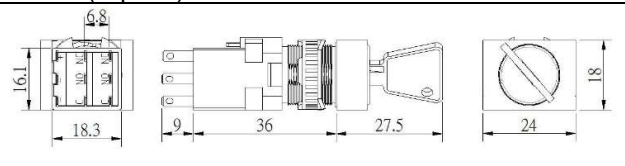
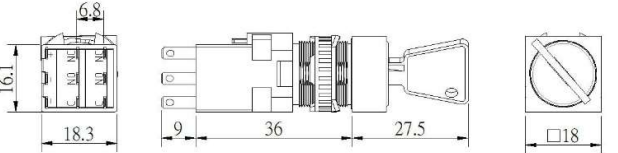
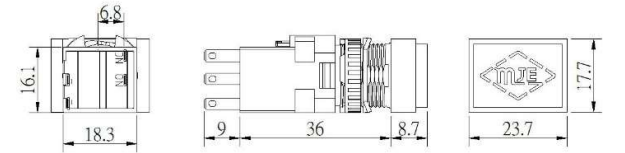
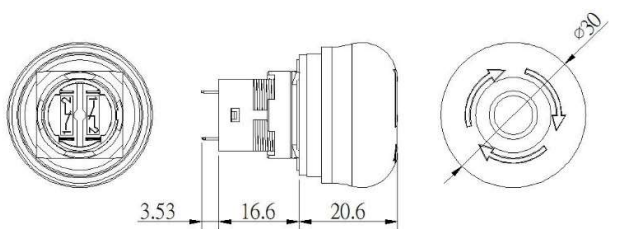
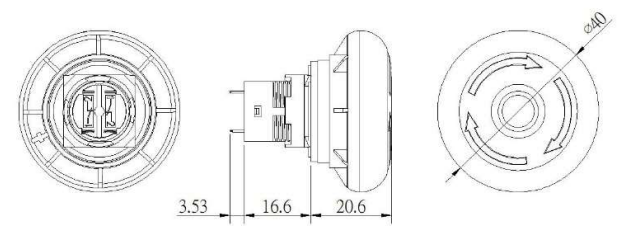
LED (DC)
06E=6Vdc
12E=12Vdc
24E=24Vdc

R=Red
G=Green
Y=Yellow
O=Orange
W=White
B=Blue


Note:

-Illumination colors from lamps are the same as lens colors; unless otherwise specified.

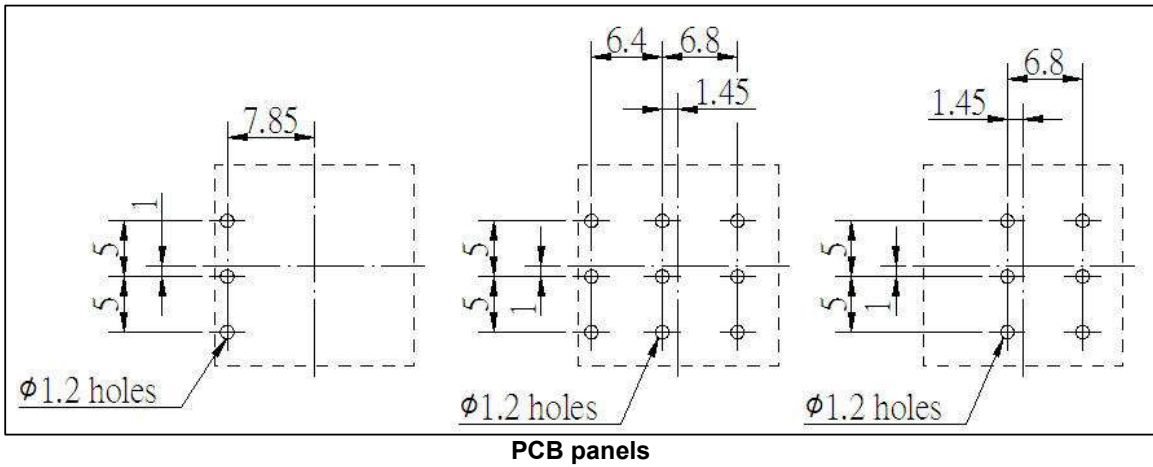
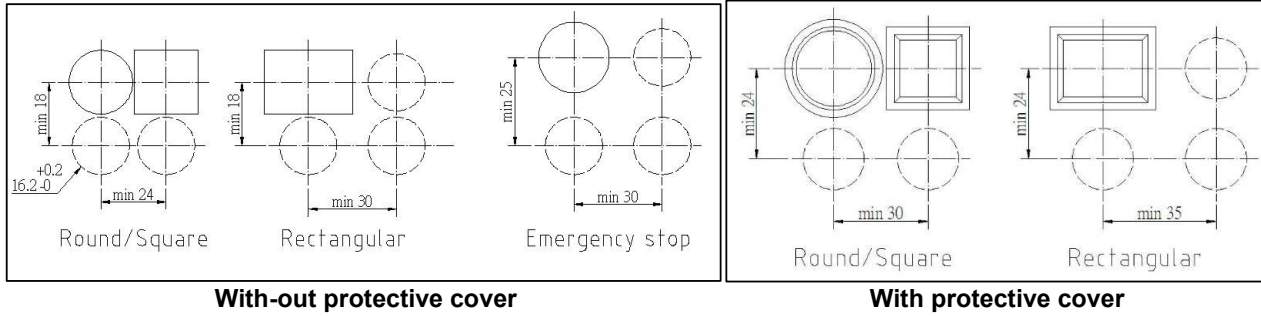
◆ Unit Dimensions

 *Measurements in *millimeters*

M6L-A (Round)

M6L-C (Rectangle)

M6L-B (Square)

M6P-A (Round)

M6P-C (Rectangle)

M6P-B (Square)

M6P-D (mushroom)

M6S-A (Round)

M6S-C (Rectangle)

M6S-B (Square)

M6K-A (Round)

M6K-C (Rectangle)

M6K-B (Square)

Buzzer M6Z

E-Stop M6E-30mm

E-Stop M6E-40mm

◆ **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*

