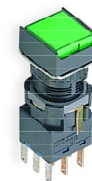


**M6 Series  
Pushbutton**
**◆ Features**

- ✓ 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



Pushbuttons (M6P)



Selectors (M6S)

**◆ Recognition(s)**

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



Pilot lights (M6L)



Emergency Stop (M6E)



Key Selectors (M6K)



Buzzers (M6Z)

**◆ Characteristics**

Positive Opening	Electrical Contact	Terminal Type	Contact Form(s)	Poles & Throws	Actuation Sequence(s)
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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
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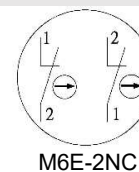
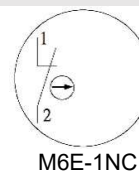
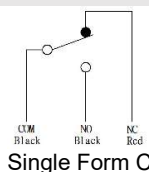
Operating Temp.	AC Rated	DC Rated	Oil Resist	Dust Resist	Water Resist	IP
-25 to 55 C	Switch=2A 250V	Switch=0.4A 125V	Yes	Yes	Yes	65

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 $\Omega$ max. (initial)	100M $\Omega$ min. (500VDC)	1.5mm amplitude at 10-55Hz

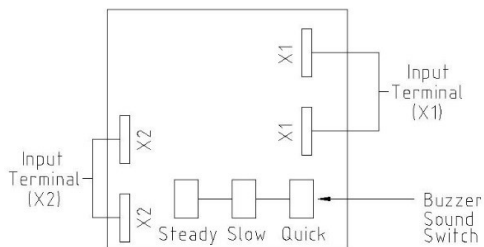
**Recommended tightening forces**

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



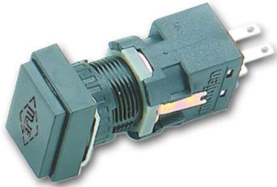
**Buzzer unit bottom view:**

### ◆ 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:
<b>M6Z –</b>		<b>24</b>	<b>S</b>
ø16mm	<b>Blank</b> =Rectangular (18x24mm)	<b>06</b> =6V AC/DC <b>24</b> =12~24V AC/DC	<b>S</b> =Solder/Plug-in (#110) <b>P</b> =PCB (0.8w x 0.5t)

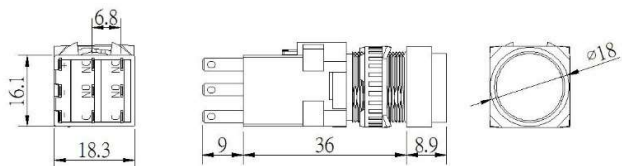
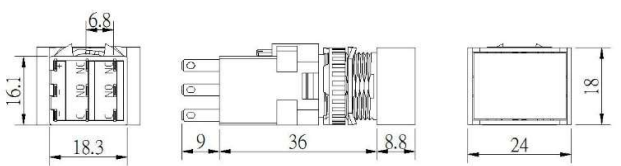
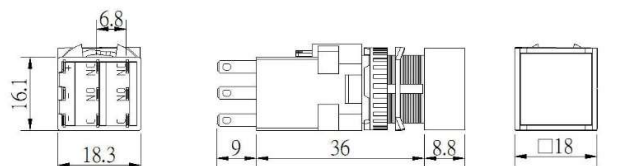
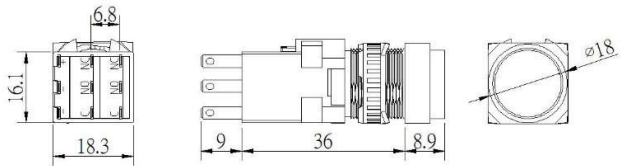
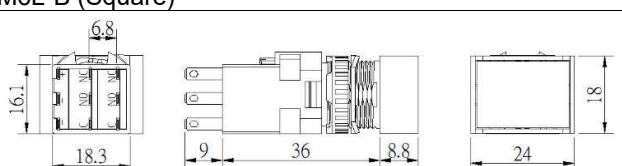
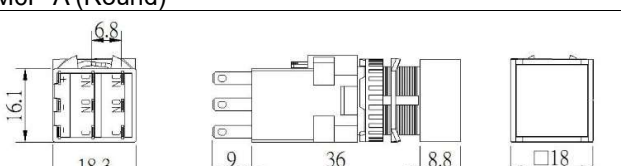
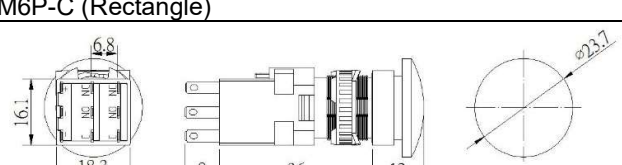
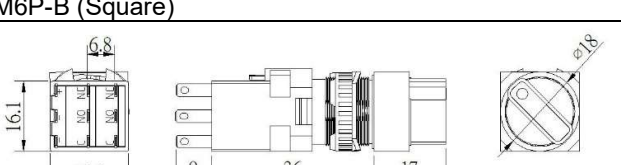
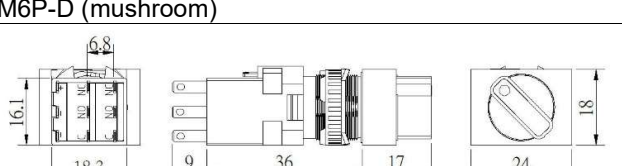
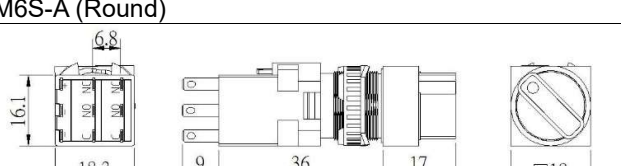
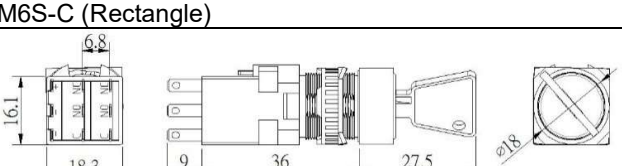
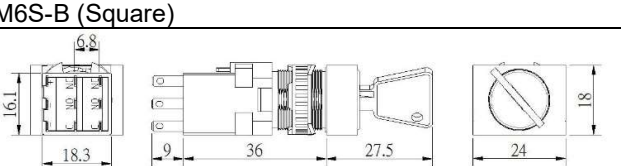
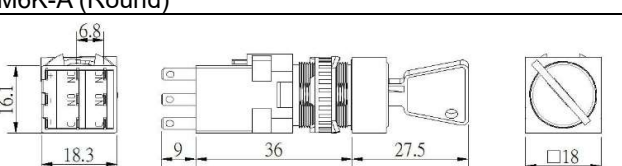
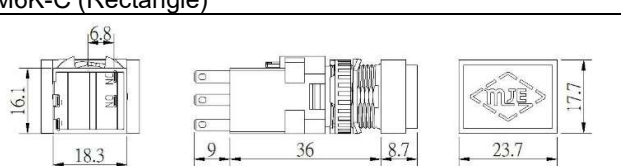
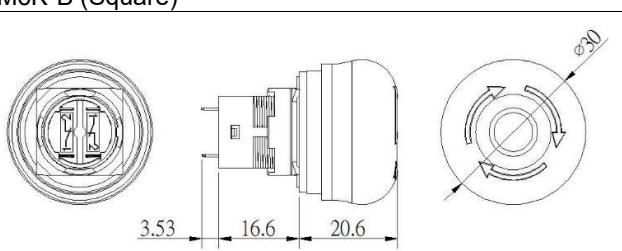
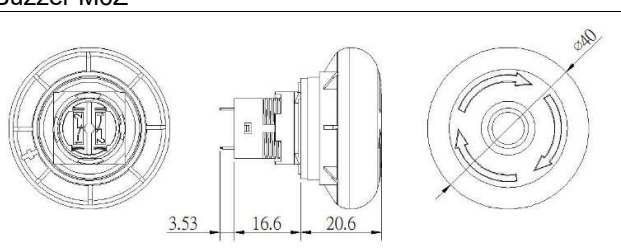


E-Stop Pushbuttons	Positive Opening:	Terminal:	Contact Form(s):	Button Size:	Lens Color:
<b>M6E –</b>	<b>P</b>	<b>S</b>	<b>1</b>	<b>40</b>	<b>R</b>
ø16mm, Positive Opening  SPST-NC or DPST-NC	<b>P</b> =Positive Opening	<b>S</b> =Solder/Plug-in (#110)	<b>1</b> =1x Form B (SPST) <b>2</b> =2x Form B (DPST)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



**◆ Unit Dimensions**

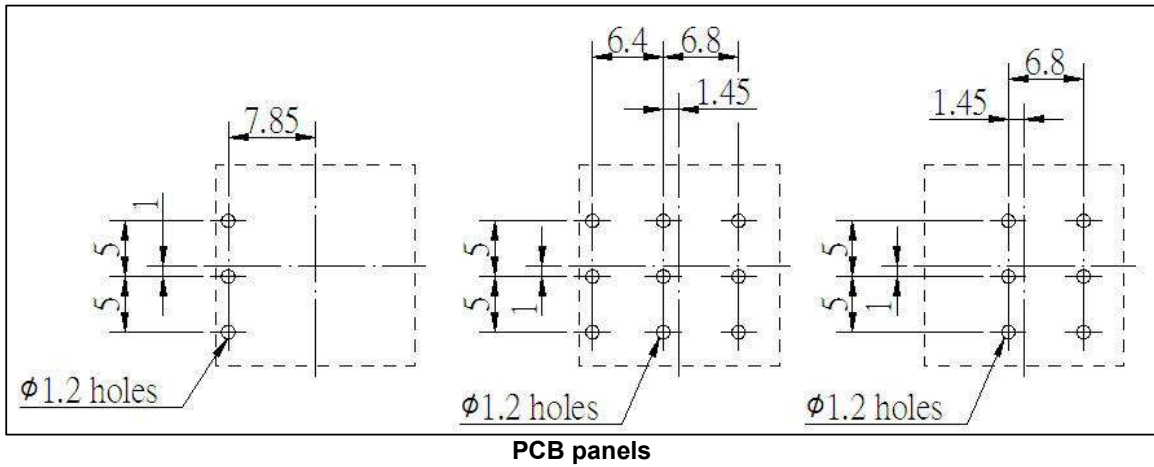
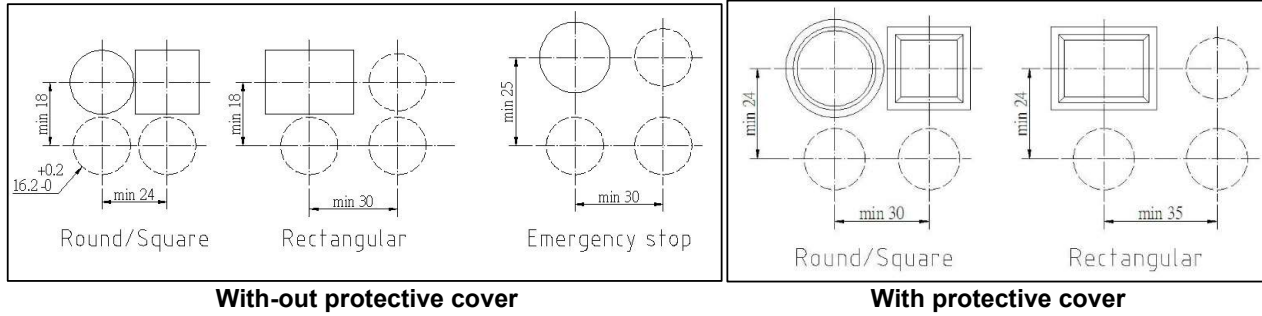
 \*Measurements in *millimeters*

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

