



**MENICS**  
A sister company of Autonics

## **TOWER & SIGNAL LIGHTS** **CONTROL SWITCHES**



# PTE Ø56mm *LED Modular Style* Steady & Flashing with Buzzer

## TOWER LIGHTS



- LED modular components
- Bright & even light distribution through prism-cut lenses
- Fast & easy assembly with inter-locking construction
- 3 base body options
- Optional 85dB Buzzer (fixed or adjustable volume)
- NEMA 4x / IP65 rated
- RoHS compliant



### Order Information

#### Body Units

| Body Type            |                  | Voltage    | Part Number |                   |
|----------------------|------------------|------------|-------------|-------------------|
|                      |                  |            | Steady      | Steady & Flashing |
| Lead Wire Connection | Pole Mounting    | AC 90~240V | PTE-A-FF    | PTE-AF-FF         |
|                      |                  | DC/AC 24V  | PTE-A-02    | PTE-AF-02         |
|                      | Surface Mounting | AC 90~240V | PTE-S-FF    | PTE-SF-FF         |
|                      |                  | DC/AC 24V  | PTE-S-02    | PTE-SF-02         |
| Terminal Connection  | Pole Mounting    | AC 90~240V | PTE-TP-FF   | PTE-TPF-FF        |
|                      |                  | DC/AC 24V  | PTE-TP-02   | PTE-TPF-02        |
|                      | Surface Mounting | AC 90~240V | PTE-TC-FF   | PTE-TCF-FF        |
|                      |                  | DC/AC 24V  | PTE-TC-02   | PTE-TCF-02        |

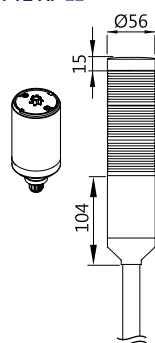
### Dimensions

unit: mm

#### Lead Wire Connection

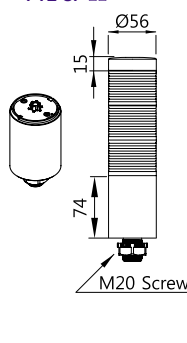
##### Pole Mounting

PTE-A-□□  
PTE-AF-□□



##### Surface Mounting

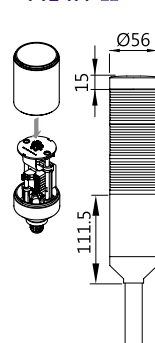
PTE-S-□□  
PTE-SF-□□



#### Terminal Connection

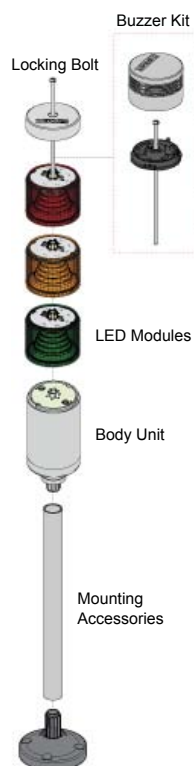
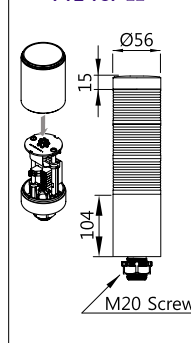
##### Pole Mounting

PTE-TP-□□  
PTE-TPF-□□



##### Surface Mounting

PTE-TC-□□  
PTE-TCF-□□



#### LED Modules

| LED Color | Part Number     |                  |
|-----------|-----------------|------------------|
|           | Standard Module | Dome Head Module |
| RED       | PTE-02R         | PTD-02R          |
| Yellow    | PTE-02Y         | PTD-02Y          |
| Green     | PTE-02G         | PTD-02G          |
| Blue      | PTE-02B         | PTD-02B          |
| *Clear    | PTE-02C         | PTD-02C          |

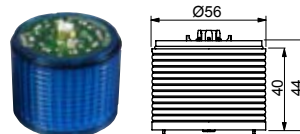
\*Clear Module cannot be used with Buzzer.

#### Locking Bolts

| Number of LED Stacks | Part Number | Size      |
|----------------------|-------------|-----------|
| 1 Stack              | B-PTE-1     | M4, 65mm  |
| 2 Stacks             | B-PTE-2     | M4, 105mm |
| 3 Stacks             | B-PTE-3     | M4, 145mm |
| 4 Stacks             | B-PTE-4     | M4, 185mm |
| 5 Stacks             | B-PTE-5     | M4, 225mm |

\*Note: Do NOT count Buzzer as a stack.

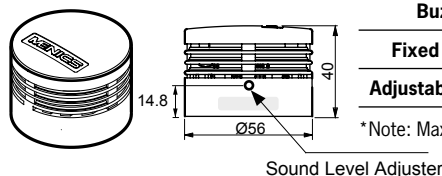
#### Standard Modules



#### Dome Head Modules



#### Buzzer Kits



#### Buzzer Kits (Optional)

| Buzzer Style           | Part Number |
|------------------------|-------------|
| Fixed Sound Level      | MPZ-56F     |
| Adjustable Sound Level | MPZ-56G     |

\*Note: Max. number of tier including Buzzer is 5.

See Page 13-14  
for Mounting Options and Accessories.

Specifications

Body Units

| Operation/Function    | Steady/ Flashing                   |                            |
|-----------------------|------------------------------------|----------------------------|
| Power Supply          | AC/DC 24V (±10%)                   | AC 90~240V 50/60 Hz (±10%) |
| Buzzer Sound Level    | Fixed: 85dB Adjustable: 10~85dB    |                            |
| Lens Color            | Red, Yellow, Green, Blue & Clear   |                            |
| Lens Diameter         | 56 mm (2.2 inch)                   |                            |
| Maximum Tier          | 5                                  |                            |
| Flash Rate            | 80 times/ minute                   |                            |
| Vibration             | 3mm at 10~55Hz                     |                            |
| Ambient Temperature   | -15°C~40°C                         |                            |
| Storage Temperature   | -40°C ~ 70°C                       |                            |
| Ambient Humidity      | 45~85% RH                          |                            |
| Degree of Protection  | NEMA 4x, IP65 / IP50 (with Buzzer) |                            |
| Approvals             | CE , UL, RoHS                      |                            |
| Recommended Wire Size | 1007 UL / 22 AWG                   |                            |

LED Modules

|                 |                  | Red                                             | Yellow | Green        | Blue | Clear        |
|-----------------|------------------|-------------------------------------------------|--------|--------------|------|--------------|
| Current / Power | Standard Module  | 27mA / 0.65W                                    |        | 35mA / 0.84W |      |              |
|                 | Dome Head Module | 58mA / 2.64W                                    |        | 52mA / 1.25W |      | 53mA / 1.27W |
| Weight          |                  | Standard Module: 42.8g<br>Dome Head Module: 53g |        |              |      |              |

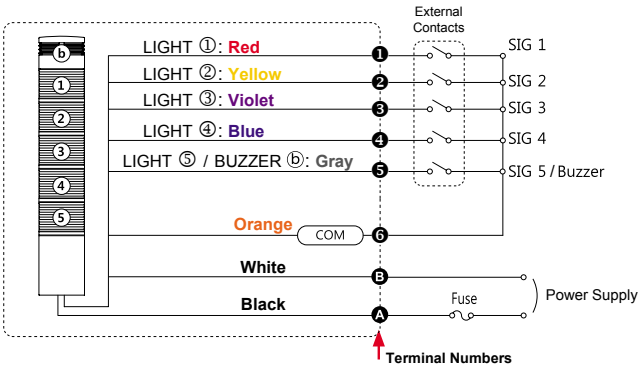
Buzzer Kits

| Model                       | MPZ-56F           | MPG-56G                |
|-----------------------------|-------------------|------------------------|
| Style                       | Fixed Sound Level | Adjustable Sound Level |
| Sound Level                 | 85 dB             | 10~85 dB               |
| Current Consumption / Power | 30mA / 0.72W      | 30mA / 0.72W           |
| Weight                      | 32.2g             | 33g                    |

Wiring Diagram

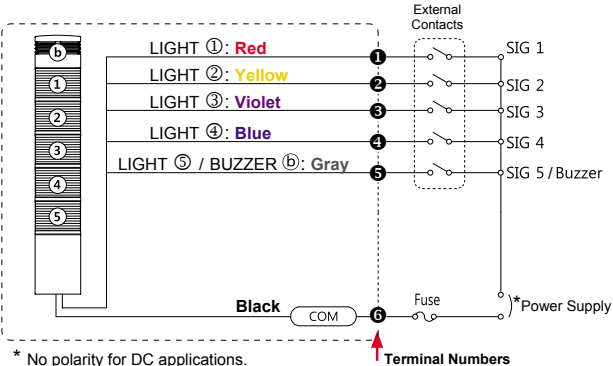
AC 90~240V  
Steady Lights

PTE-A-FF PTE-S-FF PTE-T□-FF



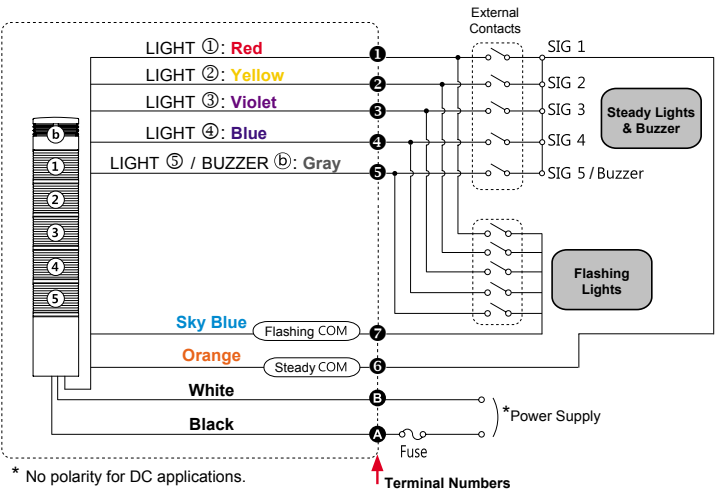
DC/AC 24V  
Steady Lights

PTE-A-02 PTE-S-02 PTE-T□-02

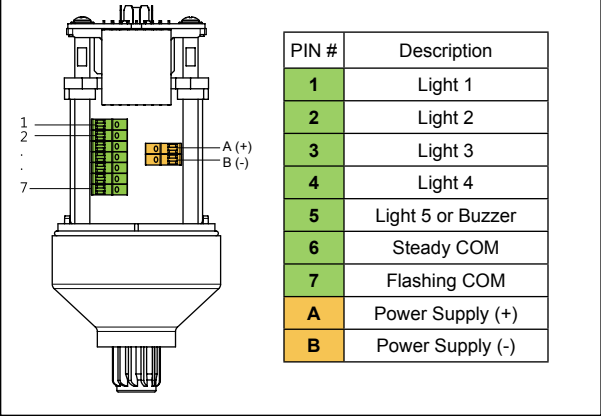


AC 90~240V  
DC/AC 24V  
Steady & Flashing Lights

PTE-AF-02 PTE-AF-FF  
PTE-SF-02 PTE-SF-FF  
PTE-T□F-02 PTE-T□F-FF



Terminal Connections



# PTM Ø56mm *LED 3 colors in 1* Steady & Flashing with Buzzer

## TOWER LIGHTS



- 3 colors in 1 LED modular components
- Bright & even light distribution through prism-cut lenses
- Fast & easy assembly with inter-locking construction
- 3 base body options
- Optional 85dB Buzzer (fixed or adjustable volume)
- NEMA 4x / IP65 rated
- RoHS compliant



### Order Information

#### Body Units

| Body Type            |                  | Voltage    | Part Number |                   |
|----------------------|------------------|------------|-------------|-------------------|
|                      |                  |            | Steady      | Steady & Flashing |
| Lead Wire Connection | Pole Mounting    | AC 90~240V | PTE-A-FF    | PTE-AF-FF         |
|                      |                  | DC/AC 24V  | PTE-A-02    | PTE-AF-02         |
|                      | Surface Mounting | AC 90~240V | PTE-S-FF    | PTE-SF-FF         |
|                      |                  | DC/AC 24V  | PTE-S-02    | PTE-SF-02         |
| Terminal Connection  | Pole Mounting    | AC 90~240V | PTE-TP-FF   | PTE-TPF-FF        |
|                      |                  | DC/AC 24V  | PTE-TP-02   | PTE-TPF-02        |
|                      | Surface Mounting | AC 90~240V | PTE-TC-FF   | PTE-TCF-FF        |
|                      |                  | DC/AC 24V  | PTE-TC-02   | PTE-TCF-02        |

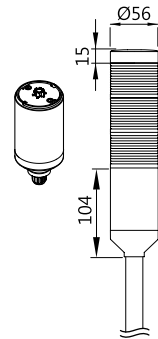
### Dimensions

unit: mm

#### Lead Wire Connection

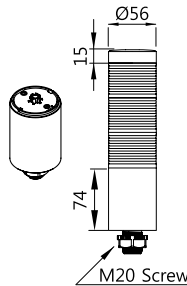
##### Pole Mounting

PTE-A-□□  
PTE-AF-□□



##### Surface Mounting

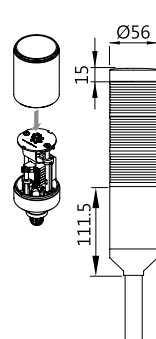
PTE-S-□□  
PTE-SF-□□



#### Terminal Connection

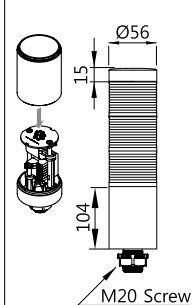
##### Pole Mounting

PTE-TP-□□  
PTE-TPF-□□



##### Surface Mounting

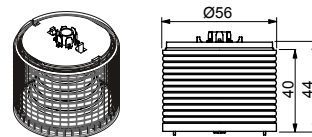
PTE-TC-□□  
PTE-TCF-□□



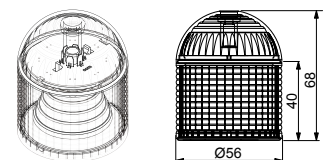
#### LED Modules

| LED Color     |       | Part Number     |                  |
|---------------|-------|-----------------|------------------|
|               |       | Standard Module | Dome Head Module |
| 3 colors in 1 | R/Y/G | PTM-02RYG       | PTMD-02RYG       |
|               | R/B/G | PTM-02RBG       | PTMD-02RBG       |

#### Standard Modules



#### Dome Head Modules



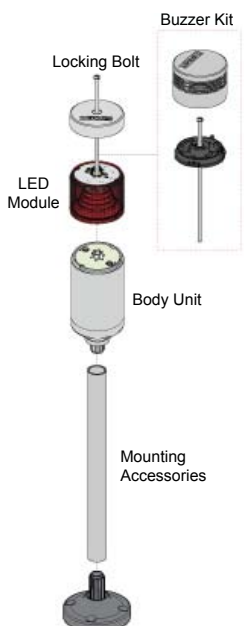
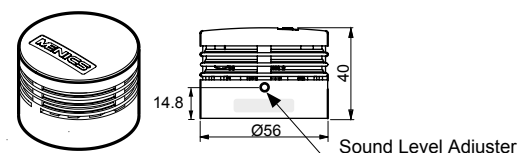
#### Locking Bolts

| Part Number | Size     |
|-------------|----------|
| B-PTE-1     | M4, 65mm |

#### Buzzer Kits (Optional)

| Buzzer Style           | Part Number |
|------------------------|-------------|
| Fixed Sound Level      | MPZ-56F     |
| Adjustable Sound Level | MPZ-56G     |

#### Buzzer Kits



See **Page 13-14**  
for Mounting Options and Accessories.

Specifications

Body Units

| Operation/Function    | Steady/ Flashing                                          |                            |
|-----------------------|-----------------------------------------------------------|----------------------------|
| Power Supply          | AC/DC 24V (±10%)                                          | AC 90~240V 50/60 Hz (±10%) |
| Buzzer Sound Level    | Fixed: 85dB Adjustable: 10~85dB                           |                            |
| Lens Color            | 3 colors in 1 module:<br>Red/Yellow/Green, Red/Blue/Green |                            |
| Lens Diameter         | 56 mm (2.2 inch)                                          |                            |
| Maximum Tier          | 2                                                         |                            |
| Flash Rate            | 80 times/ minute                                          |                            |
| Vibration             | 3mm at 10~55Hz                                            |                            |
| Ambient Temperature   | -15°C~40°C                                                |                            |
| Storage Temperature   | -40°C ~ 70°C                                              |                            |
| Ambient Humidity      | 45~85% RH                                                 |                            |
| Degree of Protection  | NEMA 4x, IP65 / IP50 (with Buzzer)                        |                            |
| Approvals             | CE , UL, RoHS                                             |                            |
| Recommended Wire Size | 1007 UL / 22 AWG                                          |                            |

LED Modules

| Color           |                  | 3 colors in 1          |               |                       |               |
|-----------------|------------------|------------------------|---------------|-----------------------|---------------|
|                 |                  | R/Y/G                  |               | R/B/G                 |               |
| Current / Power | Standard Module  | R                      | 30mA / 0.72W  | R                     | 30mA / 0.72W  |
|                 |                  | Y                      |               | G                     |               |
|                 |                  | G                      | 25mA / 0.6W   | B                     | 25mA / 0.6W   |
|                 | Dome Head Module | R                      | 58mA / 2.64 W | R                     | 58mA / 2.64 W |
|                 |                  | Y                      |               | G                     |               |
|                 |                  | G                      | 52mA / 1.25W  | B                     | 52mA / 1.25W  |
| Weight          |                  | Standard Module: 42.8g |               | Dome Head Module: 53g |               |

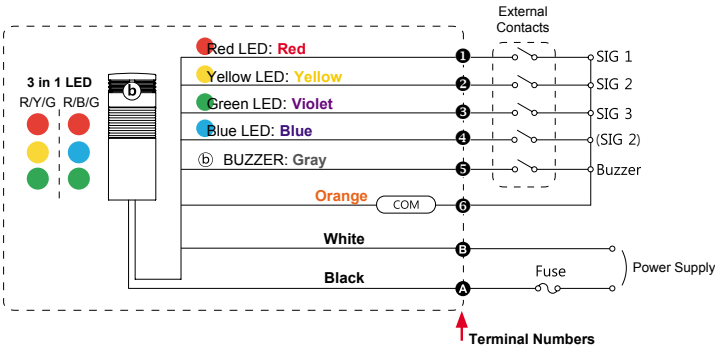
Buzzer Kits

| Model                       | MPZ-56F           | MPG-56G                |
|-----------------------------|-------------------|------------------------|
| Style                       | Fixed Sound Level | Adjustable Sound Level |
| Sound Level                 | 85 dB             | 10~85 dB               |
| Current Consumption / Power | 30mA / 0.72W      | 30mA / 0.72W           |
| Weight                      | 32.2g             | 33g                    |

Wiring Diagram

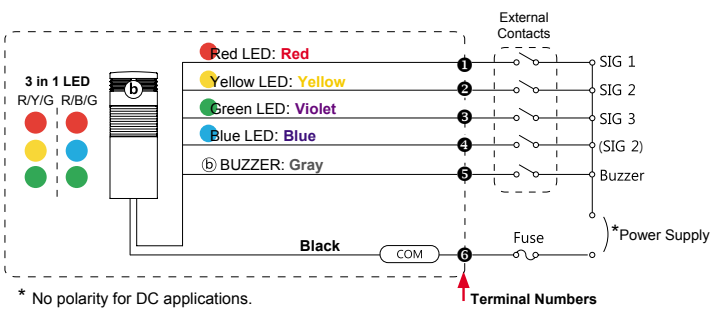
AC 90~240V  
Steady Lights

PTE-A-FF PTE-S-FF PTE-T□-FF



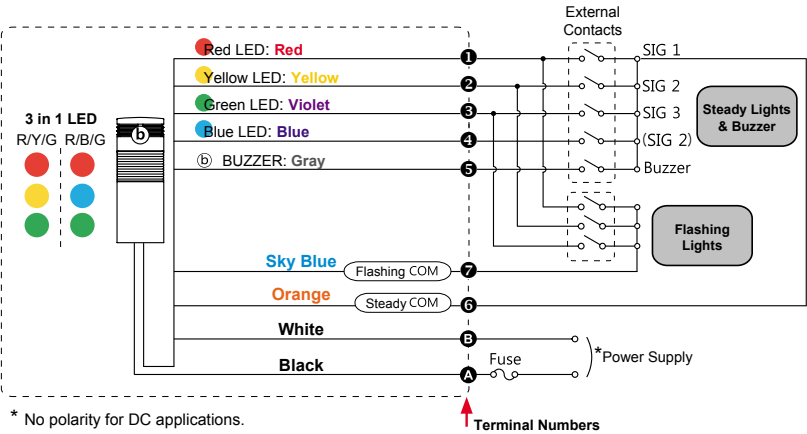
DC/AC 24V  
Steady Lights

PTE-A-02 PTE-S-02 PTE-T□-02

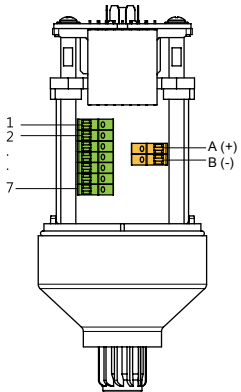


AC 90~240V  
DC/AC 24V  
Steady & Flashing Lights

PTE-AF-02 PTE-AF-FF  
PTE-SF-02 PTE-SF-FF  
PTE-T□F-02 PTE-T□F-FF



Terminal Connections



| PIN # | Description      |
|-------|------------------|
| 1     | Red LED          |
| 2     | Yellow LED       |
| 3     | Green LED        |
| 4     | Blue LED         |
| 5     | Buzzer           |
| 6     | Steady COM       |
| 7     | Flashing COM     |
| A     | Power Supply (+) |
| B     | Power Supply (-) |

# PRE Ø56mm **LED** Steady & Flashing with Buzzer

## TOWER LIGHTS



- Long life and reliability
- Prism-cut lenses for even light distribution
- Surface, Pole or Wall Mounted  
(Order poles & bases separately)
- Wire leads
- Add-on Buzzer (80 dB) kit available



### Order Information

| PRE                                 | F  | 5 | 01                | RYGBC |
|-------------------------------------|----|---|-------------------|-------|
| ①                                   | ②  | ③ | ④                 |       |
| ①<br>Light Style                    |    |   | Steady            |       |
|                                     | F  |   | Steady & Flashing |       |
| ②<br>Number of Stacks               | 1  |   | 1 Light           |       |
|                                     | 2  |   | 2 Lights          |       |
|                                     | 3  |   | 3 Lights          |       |
|                                     | 4  |   | 4 Lights          |       |
|                                     | 5  |   | 5 Lights          |       |
| ③<br>Power Supply                   | 01 |   | DC/AC 12V         |       |
|                                     | 02 |   | DC/AC 24V         |       |
|                                     | 10 |   | AC 110V           |       |
|                                     | 20 |   | AC 220V           |       |
| ④<br>Lens Colors<br>(top to bottom) | R  |   | Red               |       |
|                                     | Y  |   | Yellow            |       |
|                                     | G  |   | Green             |       |
|                                     | B  |   | Blue              |       |
|                                     | C  |   | Clear             |       |

### Optional Orders

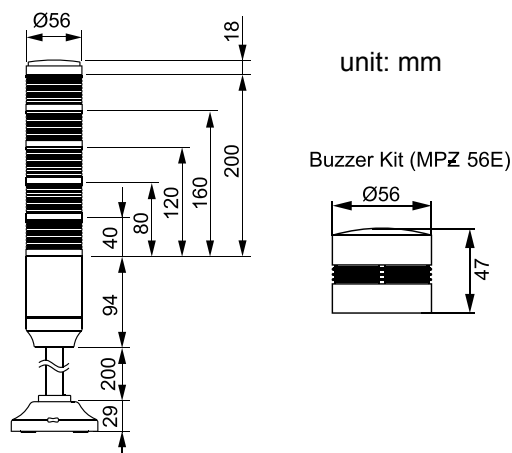
| PART   | PART NUMBER | DESCRIPTION                                                                  |
|--------|-------------|------------------------------------------------------------------------------|
| Buzzer | MPZ-56E     | Ø56mm, 80dB (30mA), 24~240V DC/AC<br>*Buzzer is not available for 12V DC/AC. |

#### Replacement Parts

|      |                |               |
|------|----------------|---------------|
| LED  | PRELED-5(□)    | 24~240V AC/DC |
|      | PRELED-5(□)-12 | 12V AC/DC     |
| Lens | PEL-5(□)       | —             |

(□): indicates color of LED or Lens; R, Y, G, B or C

### Dimensions



### Specifications

| Power Supply  |         | 12V AC/DC       | 24V AC/DC | 120/240V AC |
|---------------|---------|-----------------|-----------|-------------|
| Current Draw  | 1 Stack | 54 mA           | 28 mA     | 25 mA       |
|               | 2 Stack | 109 mA          | 62 mA     | 57 mA       |
|               | 3 Stack | 169 mA          | 102 mA    | 91 mA       |
|               | 4 Stack | 223 mA          | 136 mA    | 124 mA      |
|               | 5 Stack | 275 mA          | 169 mA    | 155 mA      |
|               | Buzzer  | —               | 30 mA     | —           |
| Sound Level   |         | —               | 80 dB     | —           |
| Flashing rate |         | 80 times/minute |           |             |
| Rating        |         | IP 56           |           |             |

See Page 13-14  
for Mounting Options and Accessories.

# PME Ø45mm LED Steady & Flashing

## TOWER LIGHTS

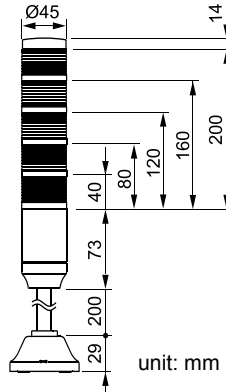


- Long life and reliability
- Prism-cut lenses for even light distribution
- Surface, Pole or Wall Mounted (Order poles & bases separately)
- Wire leads



### Specifications

| Power Supply  |         | 12V AC/DC       | 24V AC/DC | 100-220V AC |
|---------------|---------|-----------------|-----------|-------------|
| Current Draw  | 1 Stack | 41 mA           | 27 mA     | 28 mA       |
|               | 2 Stack | 89 mA           | 57 mA     | 60 mA       |
|               | 3 Stack | 149 mA          | 95 mA     | 99 mA       |
|               | 4 Stack | 204 mA          | 125 mA    | 131 mA      |
|               | 5 Stack | 240 mA          | 155 mA    | 163 mA      |
| Flashing rate |         | 80 times/minute |           |             |
| Rating        |         | IP 56           |           |             |



### Order Information

| PME                                 | F  | 5                 | 01 | RYGBC |
|-------------------------------------|----|-------------------|----|-------|
| ①                                   | ②  | ③                 | ④  |       |
| ①<br>Light Style                    | F  | Steady            |    |       |
|                                     |    | Steady & Flashing |    |       |
| ②<br>Number of Stacks               | 1  | 1 Light           |    |       |
|                                     | 2  | 2 Lights          |    |       |
|                                     | 3  | 3 Lights          |    |       |
|                                     | 4  | 4 Lights          |    |       |
|                                     | 5  | 5 Lights          |    |       |
| ③<br>Power Supply                   | 01 | DC/AC 12V         |    |       |
|                                     | 02 | DC/AC 24V         |    |       |
|                                     | FF | AC 90~240V        |    |       |
| ④<br>Lens Colors<br>(top to bottom) | R  | Red               |    |       |
|                                     | Y  | Yellow            |    |       |
|                                     | G  | Green             |    |       |
|                                     | B  | Blue              |    |       |
|                                     | C  | Clear             |    |       |

### Replacement Parts

|      |                |               |
|------|----------------|---------------|
| LED  | PMELED-4(□)    | 24~240V AC/DC |
|      | PMELED-4(□)-12 | 12V AC/DC     |
| Lens | PML-4(□)       | —             |

(□): indicates color of LED or Lens; R, Y, G, B or C

See Page 13-14  
for Mounting Options and Accessories.

# PAE Ø25mm LED Steady & Flashing

## TOWER LIGHTS

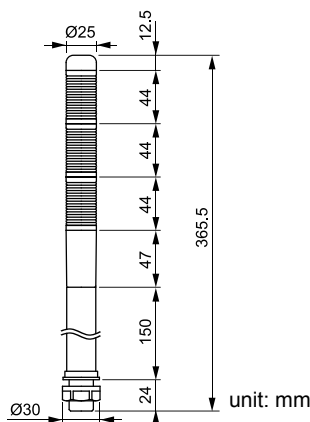


- Long life and reliability
- Prism-cut lenses for even light distribution
- Surface, Pole or Wall Mounted (Order poles & bases separately)
- Wire leads



### Specifications

| Power Supply  |         | 12V AC/DC       | 24V AC/DC |
|---------------|---------|-----------------|-----------|
| Current Draw  | 1 Stack | 30 mA           | 25 mA     |
|               | 2 Stack | 65 mA           | 60 mA     |
|               | 3 Stack | 100 mA          | 90 mA     |
|               | 4 Stack | 135 mA          | 120 mA    |
|               | 5 Stack | 170 mA          | 150 mA    |
| Flashing rate |         | 80 times/minute |           |
| Rating        |         | IP 56           |           |



### Order Information

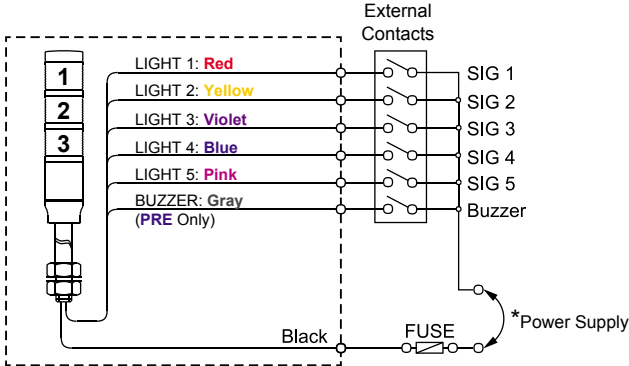
| PAE                                 | F  | M                 | G | 5 | 01 | RYGBC |
|-------------------------------------|----|-------------------|---|---|----|-------|
| ①                                   | ②  | ③                 | ④ | ⑤ | ⑥  |       |
| ①<br>Light Style                    | F  | Steady            |   |   |    |       |
|                                     |    | Steady & Flashing |   |   |    |       |
| ②<br>Mounting                       | M  | Standard          |   |   |    |       |
|                                     |    | Pole Mount        |   |   |    |       |
|                                     |    | 90° Bracket       |   |   |    |       |
| ③<br>Pole Length                    | P  | No Pole           |   |   |    |       |
|                                     |    | 51mm pole         |   |   |    |       |
|                                     |    | 150mm pole        |   |   |    |       |
| ④<br>Number of Stacks               | 1  | 1 Light           |   |   |    |       |
|                                     | 2  | 2 Lights          |   |   |    |       |
|                                     | 3  | 3 Lights          |   |   |    |       |
|                                     | 4  | 4 Lights          |   |   |    |       |
|                                     | 5  | 5 Lights          |   |   |    |       |
| ⑤<br>Power Supply                   | 01 | DC/AC 12V         |   |   |    |       |
|                                     | 02 | DC/AC 24V         |   |   |    |       |
| ⑥<br>Lens Colors<br>(top to bottom) | R  | Red               |   |   |    |       |
|                                     | Y  | Yellow            |   |   |    |       |
|                                     | G  | Green             |   |   |    |       |
|                                     | B  | Blue              |   |   |    |       |
|                                     | C  | Clear             |   |   |    |       |

# PRE / PME / PAE Wiring Diagram

## Steady Lights

DC/AC 12V

PRE-01-00000  
PME-01-00000  
PAE-01-00000

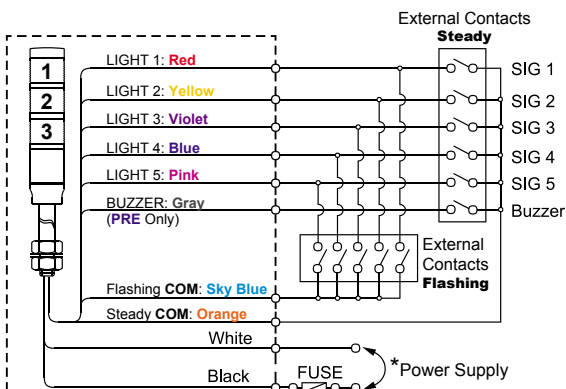


\* No polarity for DC applications.

## Steady & Flashing Lights

DC/AC 12V

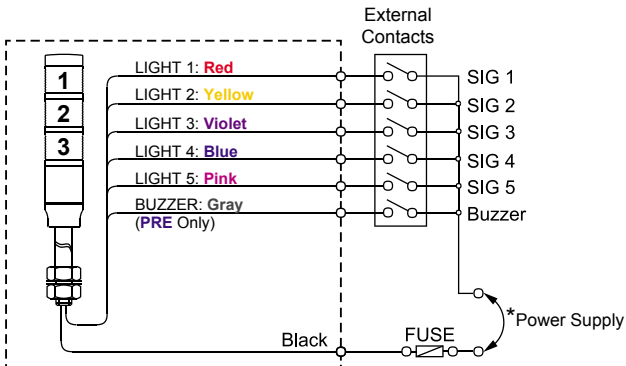
PREF-01-00000  
PMEF-01-00000  
PAEF-01-00000



\* No polarity for DC applications.

DC/AC 24V

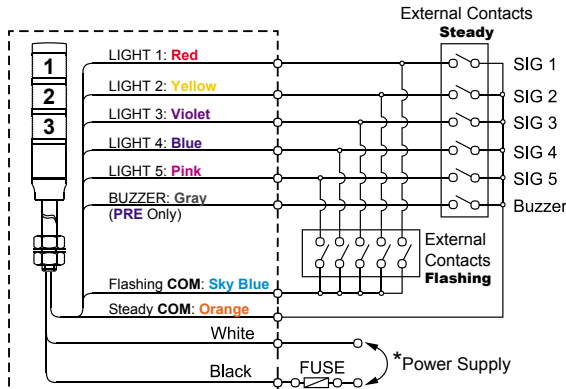
PRE-02-00000  
PME-02-00000  
PAE-02-00000



\* No polarity for DC applications.

DC/AC 24V

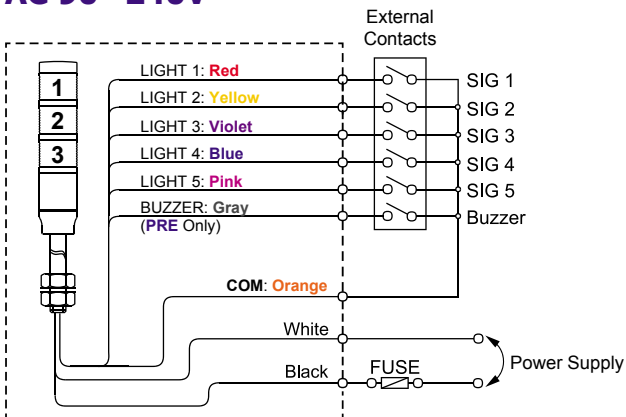
PREF-02-00000  
PMEF-02-00000  
PAEF-02-00000



\* No polarity for DC applications.

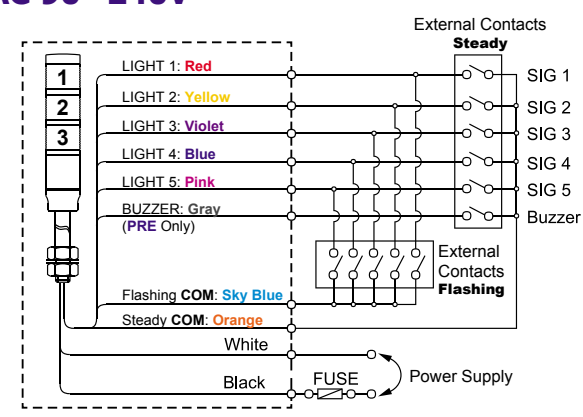
AC 110V  
AC 220V  
AC 90~240V

PRE-10-00000  
PRE-20-00000  
PME-FF-00000



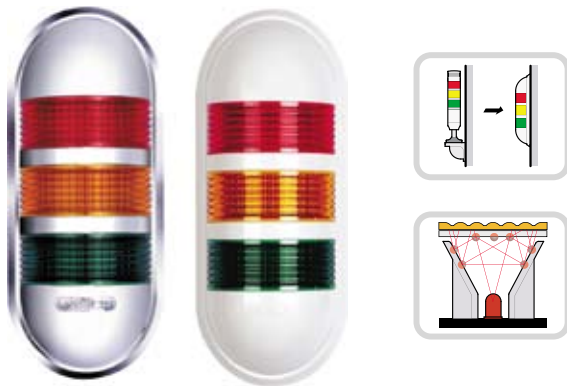
AC 110V  
AC 220V  
AC 90~240V

PREF-10-00000  
PREF-20-00000  
PMEF-FF-00000



# PWE Wall Mounted **LED** Tower Lights with Buzzer

## TOWER LIGHTS



- Slim Profile Wall Mount
- Easy Mounted vertically and horizontally
- Equivalent brightness in every angle
- Steady and flashing lights
- Vibration and moisture resistant
- Chrome or tan colored body

## Order Information

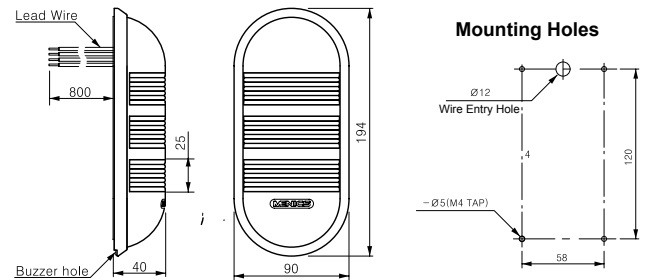
**PWE** **C** **F** - **3** **02** - **RYG**  
 ① ② ③ ④ ⑤

|                                     |           |                               |
|-------------------------------------|-----------|-------------------------------|
| ①<br>Housing Color                  |           | Cream                         |
|                                     | <b>C</b>  | Chrome                        |
| ②<br>Light Style                    |           | Steady                        |
|                                     | <b>F</b>  | Steady & Flashing             |
|                                     | <b>B</b>  | Steady with Buzzer            |
|                                     | <b>Z</b>  | Steady & Flashing with Buzzer |
| ③<br>Number of Stacks               | <b>1</b>  | 1 Light                       |
|                                     | <b>2</b>  | 2 Lights                      |
|                                     | <b>3</b>  | 3 Lights                      |
| ④<br>Power Supply                   | <b>02</b> | DC/AC 24V                     |
|                                     | <b>FF</b> | AC 90~240V                    |
| ⑤<br>Lens Colors<br>(top to bottom) | <b>R</b>  | Red                           |
|                                     | <b>Y</b>  | Yellow                        |
|                                     | <b>G</b>  | Green                         |

## Specifications

| Power Supply  |         | 24V AC/DC                | 90~240V AC |
|---------------|---------|--------------------------|------------|
| Current Draw  | 1 Stack | 28 mA                    | 30 mA      |
|               | 2 Stack | 63 mA                    | 65 mA      |
|               | 3 Stack | 103 mA                   | 100 mA     |
| Sound Level   |         | 85 dB                    |            |
| Flashing rate |         | 80 times/minute          |            |
| Rating        |         | IP 65/ IP 56 with Buzzer |            |

## Dimensions

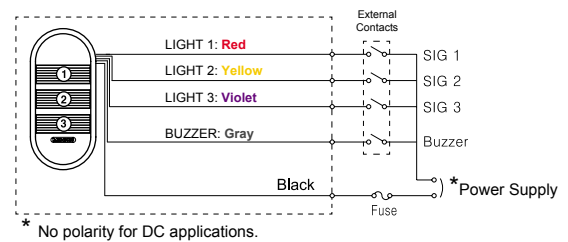


## Wiring Diagram

### DC/AC 24V

#### Steady Lights (with Buzzer)

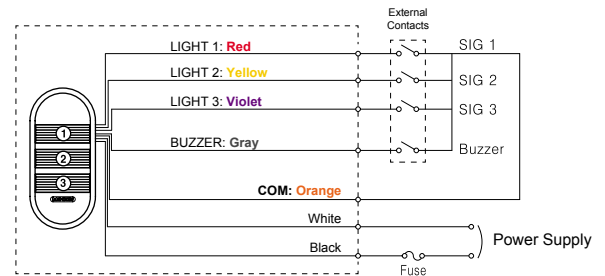
PWE-002-000 PWEB-002-000



### AC 90~240V

#### Steady Lights (with Buzzer)

PWE-0FF-000 PWEB-0FF-000



### AC 90~240V

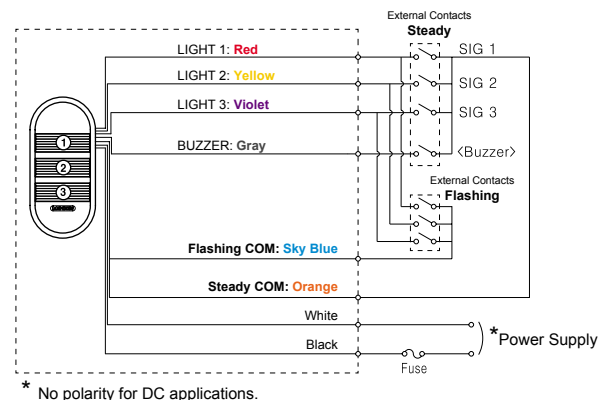
#### DC/AC 24V

#### Steady & Flashing Lights (with Buzzer)

PWEF-002-000

PWEZ-002-000

PWEF-0FF-000



# MT5C/8C Ø56mm / Ø85mm Steady & Flashing with Buzzer

## TOWER LIGHTS



### Incandescent or **LED**

- Optional LED bulbs available
- Selectable Steady or Flashing Modes
- Prism-cut lenses for even light distribution
- Surface, Pole or Wall Mounted (Order poles & bases separately)
- Wire leads or Terminal connection
- Add-on Buzzer (80 dB) kit available
- NEMA 12, 3R / IP56 rated



### Order Information

**MT 5 C 5 A L - RYGBC**  
 ① ② ③ ④ ⑤ ⑥

|                                     |   |                   |
|-------------------------------------|---|-------------------|
| ①<br>Lens Diameter                  | 5 | Ø56mm             |
|                                     | 8 | Ø85mm             |
| ②<br>Light Style                    | C | Steady & Flashing |
| ③<br>Number of Stacks               | 1 | 1 Light           |
|                                     | 2 | 2 Lights          |
|                                     | 3 | 3 Lights          |
|                                     | 4 | 4 Lights          |
|                                     | 5 | 5 Lights          |
| ④<br>Power Supply                   | A | DC/AC 24V         |
|                                     | B | AC 110~120V       |
|                                     | C | AC 220~240V       |
| ⑤<br>Connection                     | L | Lead Wires        |
|                                     | T | Screw Terminals   |
| ⑥<br>Lens Colors<br>(top to bottom) | R | Red               |
|                                     | Y | Yellow            |
|                                     | G | Green             |
|                                     | B | Blue              |
|                                     | C | Clear             |

### Optional Orders

#### Buzzer Kits

MPZ - **56** **A**

| Power Supply           |                          |
|------------------------|--------------------------|
| <b>A</b>               | DC/AC 24V, 80dB (30mA)   |
| <b>B</b>               | AC 110~120V, 80dB (30mA) |
| <b>C</b>               | AC 220~240V, 80dB (30mA) |
| Buzzer Size (Diameter) |                          |
| <b>56</b>              | Ø56mm (for MT5C Series)  |
| <b>85</b>              | Ø85mm (for MT8C Series)  |

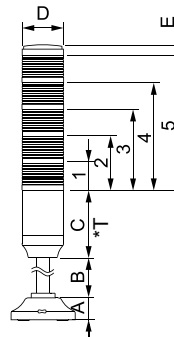
#### Replacement Parts

|      |   |                   |                  |
|------|---|-------------------|------------------|
| LED  |   | LED-T15-D-24-(□)  | DC 24V           |
|      |   | LED-T15-D-110-(□) | AC 110~120V      |
|      |   | LED-T15-D-220-(□) | AC 220~240V      |
| BULB |   | MAB-T15-D-024-10  | DC/AC 24V, 10W   |
|      |   | MAB-T15-D-120-10  | AC 110~120V, 10W |
|      |   | MAB-T15-D-240-10  | AC 220~240V, 10W |
| Lens | — | MAL-5(□)          | Ø56mm            |
|      |   | MAL-8(□)          | Ø85mm            |

(□): indicates color of LED or Lens; R, Y, G, B or C

### Specifications

| Power Supply  |      | 24V AC/DC              | 110~120V AC | 220~240V AC |
|---------------|------|------------------------|-------------|-------------|
| Current Draw  | Bulb | 1 Stack                | 54 mA       | 28 mA       |
|               |      | 2 Stack                | 109 mA      | 57 mA       |
|               |      | 3 Stack                | 169 mA      | 91 mA       |
|               |      | 4 Stack                | 223 mA      | 124 mA      |
|               |      | 5 Stack                | 275 mA      | 155 mA      |
|               | LED  | Per Stack              | 180 mA      | 35 mA       |
| Buzzer        |      | 28 mA                  |             |             |
| LED Life-Span |      | 10,000 hours (minimum) |             |             |
| Sound Level   |      | 80 dB                  |             |             |
| Flashing rate |      | 80 times/minute        |             |             |
| Rating        |      | NEMA 12, 3R / IP 56    |             |             |
| Approvals     |      | UL, cUL, CE            |             |             |



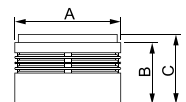
| Symbol | Model |      |
|--------|-------|------|
|        | MT5C  | MT8C |
| A      | 29    | 29   |
| B      | 185   | 185  |
| C      | 95    | 108  |
| *T     | 173   | 188  |
| D      | 56    | 85   |
| E      | 15    | 15   |
| 1      | 68    | 68   |
| 2      | 136   | 136  |
| 3      | 204   | 204  |
| 4      | 272   | 272  |
| 5      | 340   | 340  |

\*T: Terminal board style

unit: mm

#### • Buzzer Kit

MPZ-56  
MPZ-85



| Symbol | MPZ-56 | MPZ-85 |
|--------|--------|--------|
| A      | 56     | 86     |
| B      | 48     | 50     |
| C      | 54     | 56     |

See Page 13-14  
for Mounting Options and Accessories

# MT4B/5B/8B Ø45mm / Ø56mm / Ø86mm Steady

## TOWER LIGHTS



### Incandescent or LED

- Optional LED bulbs available (12VDC & 24VDC ONLY)
- Long life and reliability
- Prism-cut lenses for even light distribution
- Surface, Pole or Wall Mounted  
(Order poles & bases separately)
- Wire leads or Terminal connection
- NEMA 12, 3R / IP56 rated



### Order Information

| MT                                  | 4 | B | 5           | A | L | - | RYGBC |
|-------------------------------------|---|---|-------------|---|---|---|-------|
|                                     | ① | ② | ③           | ④ | ⑤ |   | ⑥     |
| ①<br>Lens Diameter                  |   | 4 | Ø45mm       |   |   |   |       |
|                                     |   | 5 | Ø56mm       |   |   |   |       |
|                                     |   | 8 | Ø85mm       |   |   |   |       |
| ②<br>Light Style                    |   | B | Steady      |   |   |   |       |
| ③<br>Number of Stacks               |   | 1 | 1 Light     |   |   |   |       |
|                                     |   | 2 | 2 Lights    |   |   |   |       |
|                                     |   | 3 | 3 Lights    |   |   |   |       |
|                                     |   | 4 | 4 Lights    |   |   |   |       |
|                                     |   | 5 | 5 Lights    |   |   |   |       |
| ④<br>Power Supply                   |   | D | DC/AC 12V   |   |   |   |       |
|                                     |   | A | DC/AC 24V   |   |   |   |       |
|                                     |   | B | AC 110~120V |   |   |   |       |
|                                     |   | C | AC 220~240V |   |   |   |       |
| ⑤<br>Connection                     |   | L | Lead Wires  |   |   |   |       |
| ⑥<br>Lens Colors<br>(top to bottom) |   | R | Red         |   |   |   |       |
|                                     |   | Y | Yellow      |   |   |   |       |
|                                     |   | G | Green       |   |   |   |       |
|                                     |   | B | Blue        |   |   |   |       |
|                                     |   | C | Clear       |   |   |   |       |

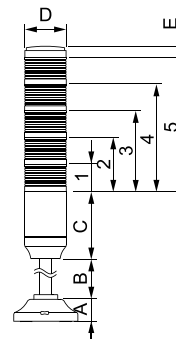
### Optional Orders

#### Replacement Parts

|              |      |                                                                                       |                   |                  |
|--------------|------|---------------------------------------------------------------------------------------|-------------------|------------------|
| MT4B         | LED  |    | LED-T09-S-12-(□)  | DC 12V           |
|              |      |                                                                                       | LED-T09-S-24-(□)  | DC 24V           |
|              | BULB |    | MAB-T09-S-012-05  | DC/AC 12V, 5W    |
|              |      |                                                                                       | MAB-T09-S-024-05  | DC/AC 24V, 5W    |
|              |      |                                                                                       | MAB-T09-S-130-05  | AC 110~120V, 5W  |
|              |      |                                                                                       | MAB-T09-S-240-05  | AC 220~240V, 5W  |
| Lens         | —    | MAL-4(□)                                                                              | Ø45mm             |                  |
| MT5B<br>MT8B | LED  |  | LED-T15-D-12-(□)  | DC 12V           |
|              |      |                                                                                       | LED-T15-D-24-(□)  | DC 24V           |
|              |      |                                                                                       | LED-T15-D-110-(□) | AC 110~120V      |
|              |      |                                                                                       | LED-T15-D-220-(□) | AC 220~240V      |
|              | BULB |  | MAB-T15-D-012-10  | DC/AC 12V, 10W   |
|              |      |                                                                                       | MAB-T15-D-024-10  | DC/AC 24V, 10W   |
|              |      |                                                                                       | MAB-T15-D-120-10  | AC 110~120V, 10W |
|              |      |                                                                                       | MAB-T15-D-240-10  | AC 220~240V, 10W |
|              | Lens | —                                                                                     | MAL-5(□)          | Ø56mm            |
|              |      |                                                                                       | MAL-8(□)          | Ø86mm            |

(□): indicates color of LED or Lens; R, Y, G, B or C

### Dimensions



unit: mm

| Symbol | Model |      |      |
|--------|-------|------|------|
|        | MT4B  | MT5B | MT8B |
| A      | 29    | 29   | 29   |
| B      | 185   | 185  | 185  |
| C      | 72    | 95   | 108  |
| D      | 45    | 56   | 86   |
| E      | 10.5  | 15   | 15   |
| 1      | 46    | 68   | 68   |
| 2      | 92    | 136  | 136  |
| 3      | 138   | 204  | 204  |
| 4      | 184   | 272  | 272  |
| 5      | 230   | 340  | 340  |

### Specifications

| Power Supply  |         | 12V AC/DC       | 24V AC/DC | 100-220V AC |
|---------------|---------|-----------------|-----------|-------------|
| Current Draw  | 1 Stack | 41 mA           | 27 mA     | 28 mA       |
|               | 2 Stack | 89 mA           | 57 mA     | 60 mA       |
|               | 3 Stack | 149 mA          | 95 mA     | 99 mA       |
|               | 4 Stack | 204 mA          | 125 mA    | 131 mA      |
|               | 5 Stack | 240 mA          | 155 mA    | 163 mA      |
| Flashing rate |         | 80 times/minute |           |             |
| Rating        |         | IP 56           |           |             |

See Page 13-14  
for Mounting Options and Accessories

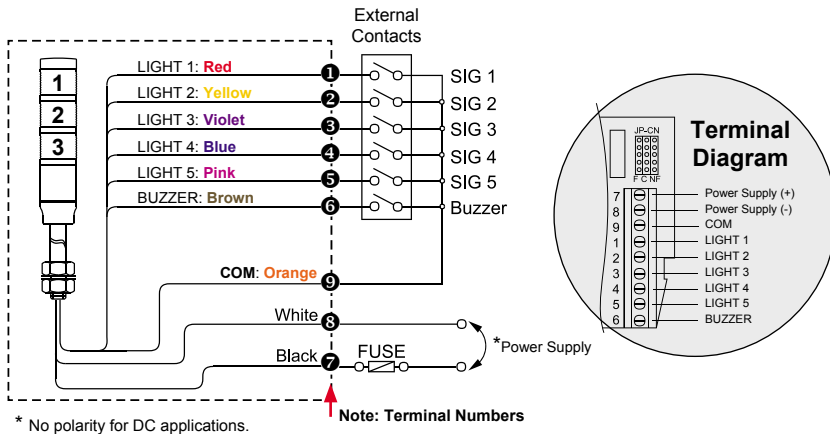
# MT5C/8C & MT4B/5B/8B Wiring Diagram

## MT5C/8C

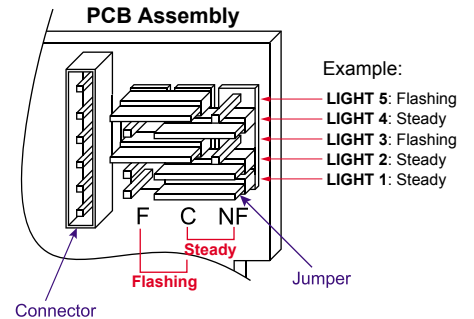
### DC/AC 24V

Steady or Flashing (with Buzzer)

MT5C□AL-□□□□ MT8C□AL-□□□□  
MT5C□AT-□□□□ MT8C□AT-□□□□



### Steady/Flashing Selection

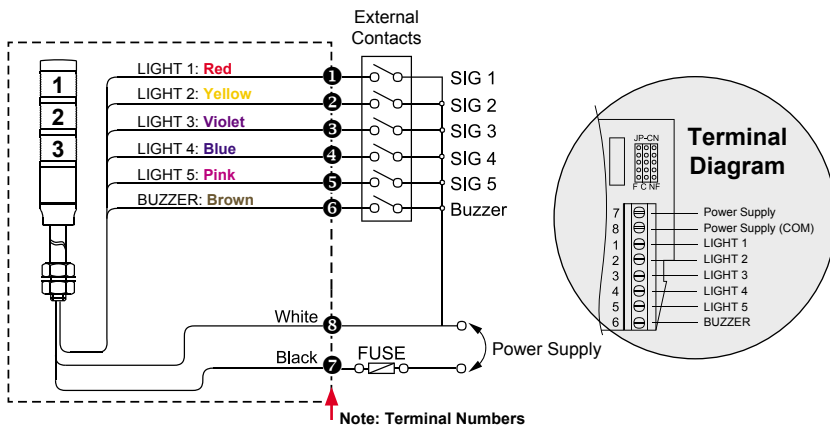


### AC 110~120V

### AC 220~240V

Steady or Flashing Lights (with Buzzer)

MT5C□BL-□□□□ MT8C□BL-□□□□  
MT5C□BT-□□□□ MT8C□BT-□□□□  
MT5C□CL-□□□□ MT8C□CL-□□□□  
MT5C□CT-□□□□ MT8C□CT-□□□□



## MT4B/5B/8B

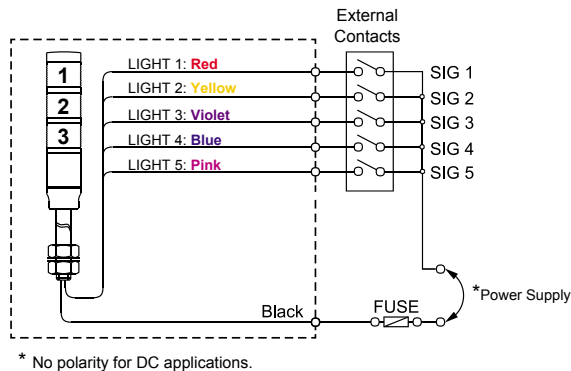
### AC/DC 12V

### AC/DC 24V

Steady Lights

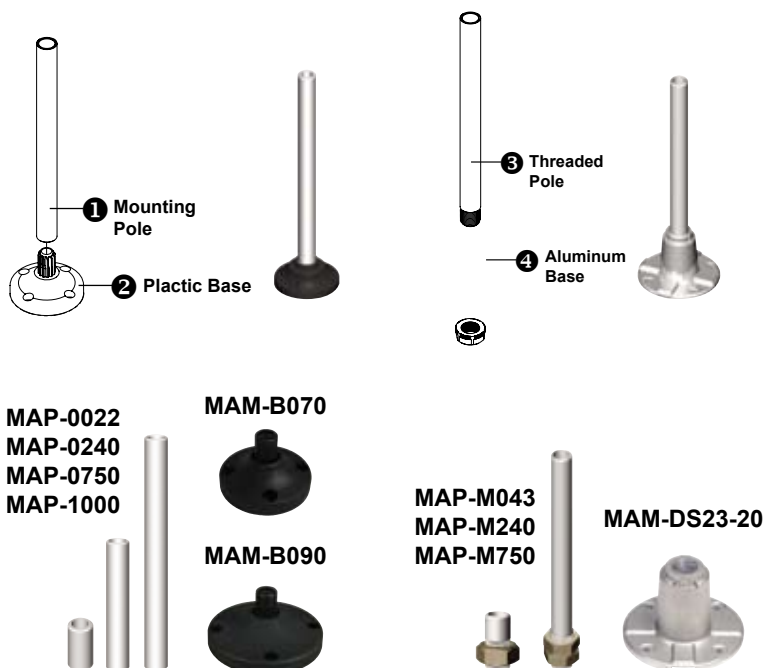
### AC 110~120V

### AC 220~240V



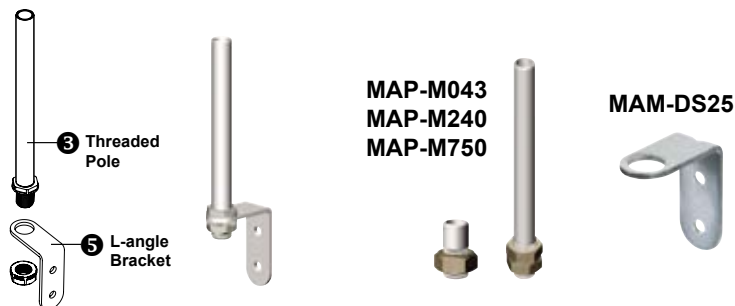
### Pole Mounting with Base

| Part     | Part #             | Description                                       |
|----------|--------------------|---------------------------------------------------|
| <b>1</b> | <b>MAP-0022</b>    | Ø20mm, 0.87 in (22 mm) pole                       |
|          | <b>MAP-0240</b>    | Ø20mm, 9.45 in (240 mm) pole                      |
|          | <b>MAP-0750</b>    | Ø20mm, 29.53 in (750 mm) pole                     |
|          | <b>MAP-1000</b>    | Ø20mm, 39.37 in (1000 mm) pole                    |
| <b>2</b> | <b>MAM-B070</b>    | Ø70mm Plastic Base                                |
|          | <b>MAM-B090</b>    | Ø90mm Plastic Base                                |
| <b>3</b> | <b>MAP-M043</b>    | Ø20mm, 1.69 in (43 mm) threaded pole with 1 nut   |
|          | <b>MAP-M240</b>    | Ø20mm, 9.45 in (240 mm) threaded pole with 2 nuts |
|          | <b>MAP-M750</b>    | Ø20mm, 29.53 in (750 mm) threaded pole with 1 nut |
| <b>4</b> | <b>MAM-DS23-20</b> | Aluminum Base                                     |



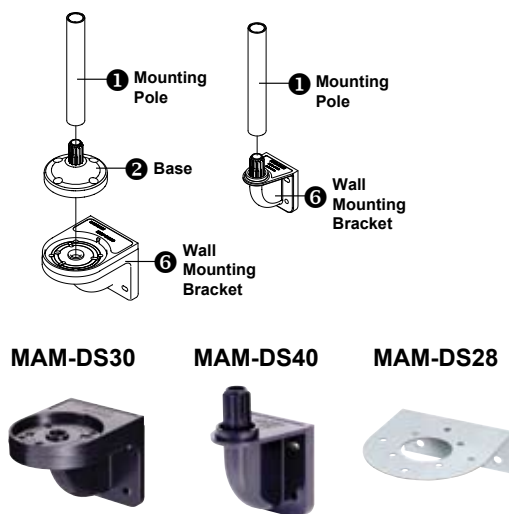
### L-angle Mounting with Bracket

| Part     | Part #          | Description                                       |
|----------|-----------------|---------------------------------------------------|
| <b>3</b> | <b>MAP-M043</b> | Ø20mm, 1.69 in (43 mm) threaded pole with 1 nut   |
|          | <b>MAP-M240</b> | Ø20mm, 9.45 in (240 mm) threaded pole with 2 nuts |
|          | <b>MAP-M750</b> | Ø20mm, 29.53 in (750 mm) threaded pole with 1 nut |
| <b>5</b> | <b>MAM-DS25</b> | L-angle Bracket                                   |



### Wall Mounting with Bracket

| Part     | Part #              | Description                                                 |
|----------|---------------------|-------------------------------------------------------------|
| <b>1</b> | <b>MAP-0022</b>     | Ø20mm, 0.87 in (22 mm) pole                                 |
|          | <b>MAP-0240</b>     | Ø20mm, 9.45 in (240 mm) pole                                |
|          | <b>MAP-0750</b>     | Ø20mm, 29.53 in (750 mm) pole                               |
|          | <b>MAP-1000</b>     | Ø20mm, 39.37 in (1000 mm) pole                              |
| <b>2</b> | <b>MAM-B070</b>     | Plastic Base                                                |
| <b>6</b> | <b>MAM-DS30-BLK</b> | Plastic Wall Mounting Bracket, Black (Pole & Base required) |
|          | <b>MAM-DS30-BGE</b> | Plastic Wall Mounting Bracket, Beige (Pole & Base required) |
|          | <b>MAM-DS40-BLK</b> | Plastic Wall Mounting Bracket, Black (Pole required)        |
|          | <b>MAM-DS40-BGE</b> | Plastic Wall Mounting Bracket, Beige (Pole required)        |
|          | <b>MAM-DS28</b>     | Metal Wall Mounting Bracket (Pole & Base required)          |



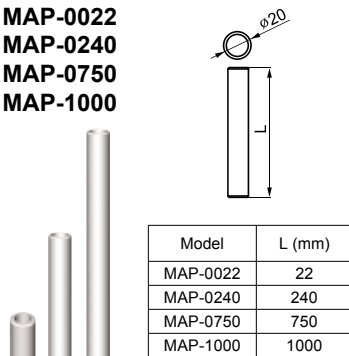
### NPT Mounting with NPT Adaptor



# Accessories

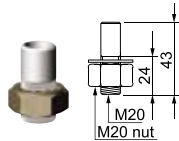
## Mounting Poles

MAP-0022  
MAP-0240  
MAP-0750  
MAP-1000

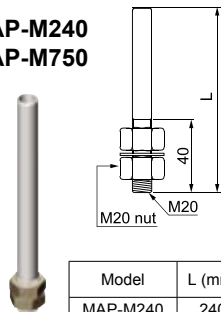


## Threaded Poles

MAP-M043



MAP-M240  
MAP-M750



| Model    | L (mm) |
|----------|--------|
| MAP-M240 | 240    |
| MAP-M750 | 750    |

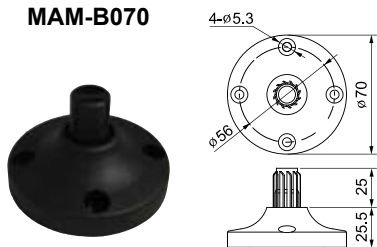
## NPT Adaptor

MAP-NPT1/2



## Mounting Bases

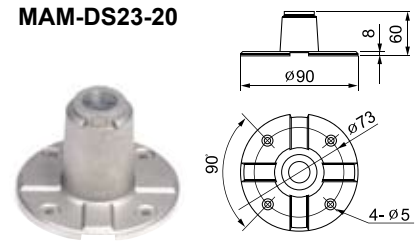
MAM-B070



MAM-B090

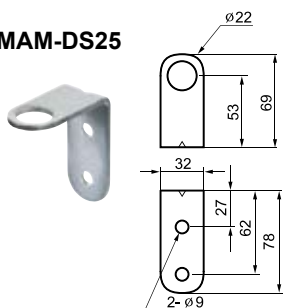


MAM-DS23-20

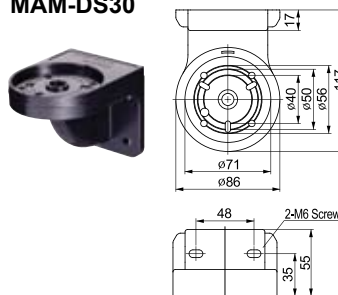


## Wall Mount Brackets

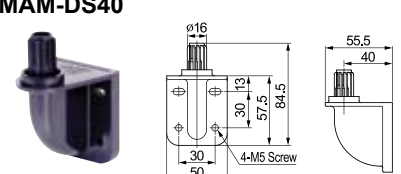
MAM-DS25



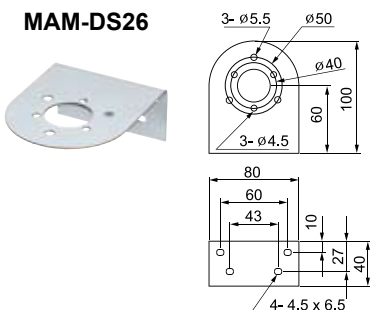
MAM-DS30



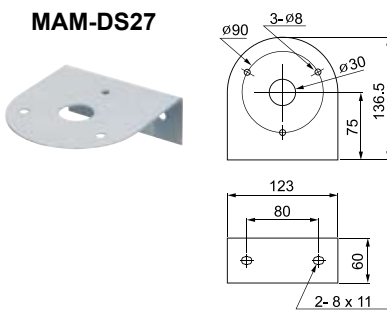
MAM-DS40



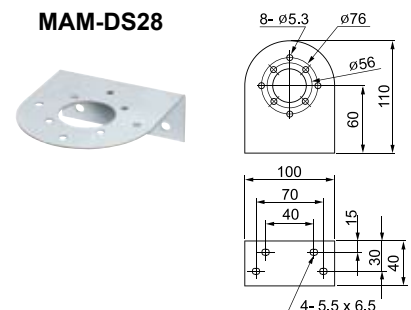
MAM-DS26



MAM-DS27



MAM-DS28



# MS86 Ø86mm **LED** Steady & Flashing / Xenon Strobe Lights

## SIGNAL LIGHTS



- Ultra bright LED or Xenon lights
- Wide light distribution with prism-cut dome-shaped lens
- Outstanding visibility at distance
- Selectable Steady or Flashing Modes for LED lights
- PCB module style Xenon lamp
- Fast and easy replacement of lamp
- Red, Yellow, Green, Blue and lens available
- IP65 rated



## Order Information

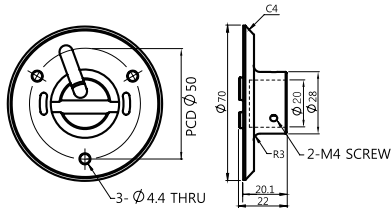
| <b>MS86</b>                                                                                                                                                                                                                                                    | <b>L-F</b>                                | <b>02</b> | <b>-</b> | <b>R</b> |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------|----------|----------|--------------|--|------------|-------------------------------------------|------------|--------------------------------------|-------------|--------------|----------|------|----------|-------|
|                                                                                                                                                                                                                                                                |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <table><tr><th colspan="2">Lens Colors</th></tr><tr><td><b>R</b></td><td>Red</td></tr><tr><td><b>Y</b></td><td>Yellow</td></tr><tr><td><b>G</b></td><td>Green</td></tr><tr><td><b>B</b></td><td>Blue</td></tr><tr><td><b>C</b></td><td>Clear</td></tr></table> |                                           |           |          |          | Lens Colors  |  | <b>R</b>   | Red                                       | <b>Y</b>   | Yellow                               | <b>G</b>    | Green        | <b>B</b> | Blue | <b>C</b> | Clear |
| Lens Colors                                                                                                                                                                                                                                                    |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>R</b>                                                                                                                                                                                                                                                       | Red                                       |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>Y</b>                                                                                                                                                                                                                                                       | Yellow                                    |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>G</b>                                                                                                                                                                                                                                                       | Green                                     |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>B</b>                                                                                                                                                                                                                                                       | Blue                                      |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>C</b>                                                                                                                                                                                                                                                       | Clear                                     |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
|                                                                                                                                                                                                                                                                |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <table><tr><th colspan="2">Power Supply</th></tr><tr><td><b>02</b></td><td>AC/DC 12~24V<br/>(AC/DC 24V for LED Style)</td></tr><tr><td><b>10</b></td><td>AC 110V</td></tr></table>                                                                             |                                           |           |          |          | Power Supply |  | <b>02</b>  | AC/DC 12~24V<br>(AC/DC 24V for LED Style) | <b>10</b>  | AC 110V                              |             |              |          |      |          |       |
| Power Supply                                                                                                                                                                                                                                                   |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>02</b>                                                                                                                                                                                                                                                      | AC/DC 12~24V<br>(AC/DC 24V for LED Style) |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>10</b>                                                                                                                                                                                                                                                      | AC 110V                                   |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
|                                                                                                                                                                                                                                                                |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <table><tr><th colspan="2">Light Style</th></tr><tr><td><b>L-F</b></td><td>LED Steady &amp; Flashing</td></tr><tr><td><b>L-B</b></td><td>LED Steady &amp; Flashing<br/>with Buzzer</td></tr><tr><td><b>S-SD</b></td><td>Xenon Strobe</td></tr></table>         |                                           |           |          |          | Light Style  |  | <b>L-F</b> | LED Steady & Flashing                     | <b>L-B</b> | LED Steady & Flashing<br>with Buzzer | <b>S-SD</b> | Xenon Strobe |          |      |          |       |
| Light Style                                                                                                                                                                                                                                                    |                                           |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>L-F</b>                                                                                                                                                                                                                                                     | LED Steady & Flashing                     |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>L-B</b>                                                                                                                                                                                                                                                     | LED Steady & Flashing<br>with Buzzer      |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |
| <b>S-SD</b>                                                                                                                                                                                                                                                    | Xenon Strobe                              |           |          |          |              |  |            |                                           |            |                                      |             |              |          |      |          |       |

## Optional Orders

### Pole Mount Adaptor



MAM-DS31



Pole Mounting Example

### Wall Mount Brackets



MAM-DS30-BLK (Black)  
MAM-DS30-BGE (Beige)



MAM-DS26

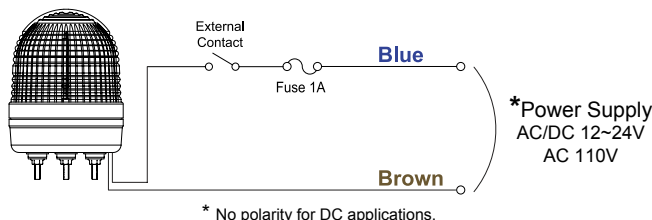
**NOTE:** See Page 13 & 14 for Mounting Options and Dimensions.

### Replacement Parts

|                  |                      |              |
|------------------|----------------------|--------------|
| Xenon PCB Module | <b>MS86S-LAMP-02</b> | AC/DC 12~24V |
|                  | <b>MS86S-LAMP-10</b> | AC 110V      |
| Lens             | <b>LENS-MS86-(□)</b> | Dome Lens    |

(□): indicates color of Lens; R, Y, G, B or C

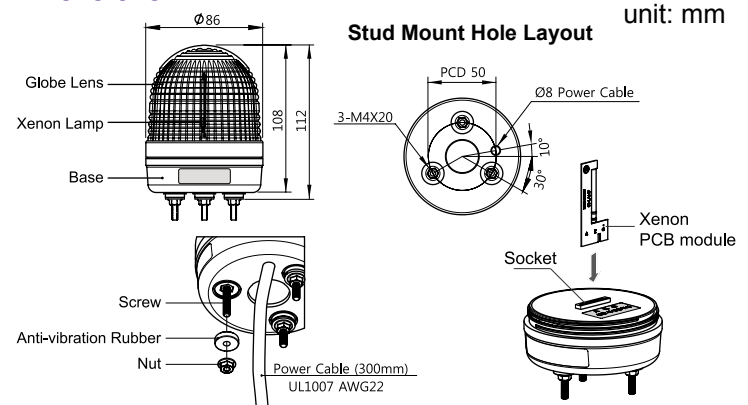
## Wiring Diagram



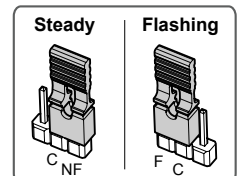
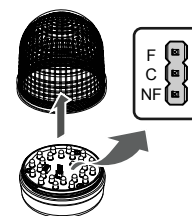
## Specifications

| Model                     | MS86L                                         |         | MS86S                                    |                 |
|---------------------------|-----------------------------------------------|---------|------------------------------------------|-----------------|
| Style                     | LED Steady/Flashing                           |         | Xenon Strobe                             |                 |
| Power Supply              | AC/DC 24V                                     | AC 110V | AC/DC 12-24V                             | AC 110V         |
| Current Consumption       | Red                                           | 120mA   | 200mA<br><br>max. dash current:<br>600mA | 220mA<br><br>6W |
|                           | Yellow                                        | 120mA   |                                          |                 |
|                           | Green                                         | 140mA   |                                          |                 |
|                           | Blue                                          | 140mA   |                                          |                 |
|                           | Clear                                         | 140mA   |                                          |                 |
| Flash (Strobe Pulse) Rate | 80 time/minute ± 3%                           |         | 60 times/minute ± 3%                     |                 |
| Sound Level               | max. 85dB at 1m                               |         | —                                        |                 |
| Dielectric Strength       | 500VAC for 1 min.                             |         |                                          |                 |
| Vibration                 | 15~55 Hz; xyz/60min (70m/s <sup>2</sup> , 7G) |         |                                          |                 |
| Insulation Resistance     | 1MΩ (at 500VDC mega)                          |         |                                          |                 |
| Ambient Temperature       | -30~40°C                                      |         | -20~70°C                                 |                 |
| Storage Temperature       | -25~85°C                                      |         |                                          |                 |
| Ambient Humidity          | 45~85% RH                                     |         |                                          |                 |
| Degree of Protection      | IP65 (IP52 with Buzzer)                       |         | IP65                                     |                 |
| Recommended Wire Size     | PUR Ø5/PVC Ø5 2P/0.3SQ                        |         |                                          |                 |
| Weight                    | 0.3kg ± 5%                                    |         |                                          |                 |

## Dimensions



## LED Light Steady/Flashing Selection



# ML Ø66mm Rotating/Flashing/Strobe Beacons



**XENON**

## SIGNAL LIGHTS



- Incandescent or Xenon type
- Red, Yellow, Green and Blue lens available
- Smooth or Prism lens
- Stud or Pole mounted
- Wide range of power supply

## Order Information

|           |          |          |   |            |   |          |
|-----------|----------|----------|---|------------|---|----------|
| <b>ML</b> | <b>G</b> | <b>F</b> | - | <b>012</b> | - | <b>R</b> |
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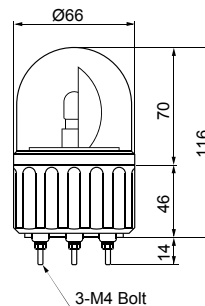
AC 110 or 220V Only

## Specifications

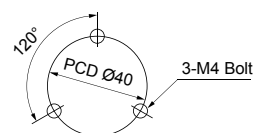
| Model                  | MLG/MLP                      | MLGF/MLPF | MLGS/MLPS       |
|------------------------|------------------------------|-----------|-----------------|
| Bulb Type              | Incandescent                 |           | Xenon           |
| Power Supply           | 12VDC, 24VDC, 110VAC, 220VAC |           | 110VAC, 220VAC  |
| Current Draw & Wattage | 12VDC                        | 0.7A, 8W  | —               |
|                        | 24VDC                        | 0.3A, 8W  | —               |
|                        | 110VAC                       | 0.7A, 8W  | 0.22A, 6W       |
|                        | 220VAC                       | 0.03A, 8W | 0.11A, 6W       |
| Rotation Rate          | 130 times/minute             |           | —               |
| Flashing rate          | —                            |           | 80 times/minute |

## Dimensions

unit: mm



### Stud Mount Hole Layout



## Optional Orders

### Replacement Parts

|            |                   |                                       |
|------------|-------------------|---------------------------------------|
| Bulb       | MAB-T15-S-012-08  | 12V DC, 8 Watt                        |
|            | MAB-T15-S-024-08  | 24V DC, 8 Watt                        |
|            | MAB-T15-S-130-08  | 110V AC, 8 Watt                       |
|            | MAB-T15-S-240-08  | 220V AC, 8 Watt                       |
| Xenon Bulb | MAB-STROBE-110-06 | 110/220V AC, 6 Watt                   |
| Lens       | LENS-MLG-(□)      | Smooth Lens for Rotating Lights       |
|            | LENS-MLGF/S-(□)   | Prism Lens for Flashing/Strobe Lights |

(□): indicates color of Lens; R, Y, G or B

### Wall Mount Brackets



MAM-DS26

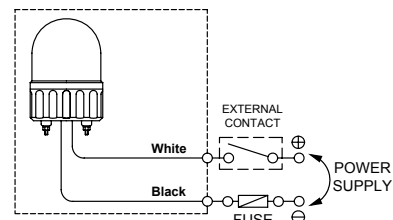
MAM-DS30-BLK (Black)  
MAM-DS30-BGE (Beige)

**NOTE:** See Page 14 for Dimensions.

## Wiring Diagram

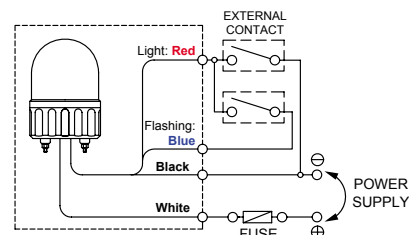
### Rotating & Strobe Lights

MLG-□□□□ MLGS-□□□□  
MLP-□□□□ MLPS-□□□□



### Flashing Lights

MLGF-□□□□ MLPF-□□□□



# ASG Ø86mm Rotating/Flashing/Strobe Beacons with Buzzer

## SIGNAL LIGHTS



- Incandescent or Xenon type
- Red, Yellow, Green and Blue lens available
- Smooth lens
- Stud mounted
- Optional Wall Mounting Brackets available
- Wide range of power supply

### Order Information

**ASG** **B** - **012** - **R**

| Lens Colors        |                              |
|--------------------|------------------------------|
| <b>R</b>           | Red                          |
| <b>Y</b>           | Yellow                       |
| <b>G</b>           | Green                        |
| <b>B</b>           | Blue                         |
| Power Supply       |                              |
| <b>012</b>         | DC 12V                       |
| <b>024</b>         | DC 24V                       |
| <b>110&amp;220</b> | AC 110/220V                  |
| <b>110</b>         | AC 110V                      |
| <b>220</b>         | AC 220V                      |
| Light Style        |                              |
|                    | Rotating Light               |
| <b>B</b>           | Rotating Light with Buzzer   |
| <b>F</b>           | Flashing Light               |
| <b>S</b>           | Strobe Light with Xenon Bulb |

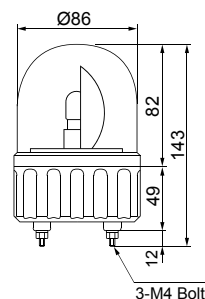
Strobe Light Only [

AC 110 or 220V Only ▶

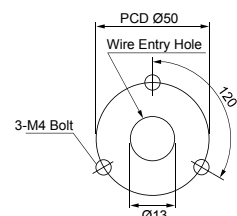
### Specifications

| Model                  | ASG/ASGB                 | ASGF      | ASGS            |
|------------------------|--------------------------|-----------|-----------------|
| Bulb Type              | Incandescent             |           | Xenon           |
| Power Supply           | 12VDC, 24VDC, 110/220VAC |           | 110VAC, 220VAC  |
| Current Draw & Wattage | 12VDC                    | 0.7A, 8W  | —               |
|                        | 24VDC                    | 0.3A, 8W  | —               |
|                        | 110/220VAC               | 0.03A, 5W | —               |
|                        | 110VAC                   | —         | 0.22A, 6W       |
|                        | 220VAC                   | —         | 0.11A, 6W       |
|                        | Sound Level              | 80 dB     | —               |
| Rotation Rate          | 130 times/minute         |           | —               |
| Flashing rate          | —                        |           | 80 times/minute |

### Dimensions



unit: mm  
Stud Mount Hole Layout



### Optional Orders

#### Replacement Parts

| Bulb       | <b>MAB-T15-S-012-08</b>  | 12V DC, 8 Watt                         |
|------------|--------------------------|----------------------------------------|
|            | <b>MAB-T15-S-024-08</b>  | 24V DC, 8 Watt                         |
|            | <b>MAB-T15-S-012-05</b>  | 110/220V AC, 5 Watt                    |
| Xenon Bulb | <b>MAB-STROBE-110-06</b> | 110/220V AC, 6 Watt                    |
| Lens       | <b>LENS-ASG-(□)</b>      | Smooth Lens for Rotating Lights        |
|            | <b>LENS-ASGF-(□)</b>     | Smooth Lens for Flashing/Strobe Lights |

(□): indicates color of Lens; R, Y, G or B

#### Wall Mount Brackets



MAM-DS30-BLK (Black)  
MAM-DS30-BGE (Beige)



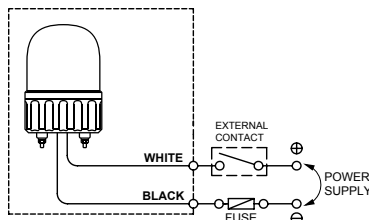
MAM-DS26

**NOTE:** See Page 14 for Dimensions.

### Wiring Diagram

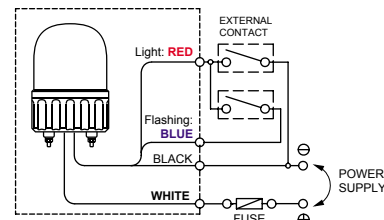
#### DC Rotating Lights

ASG-012-□ ASGB-012-□  
ASG-024-□ ASGB-024-□



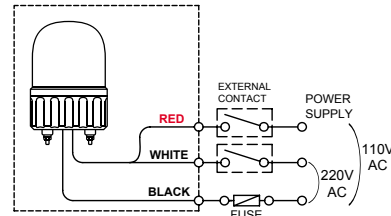
#### DC & AC Flashing Lights

ASGF-012-□ ASGF-110&220-□  
ASGF-024-□



#### AC Rotating & Strobe Lights

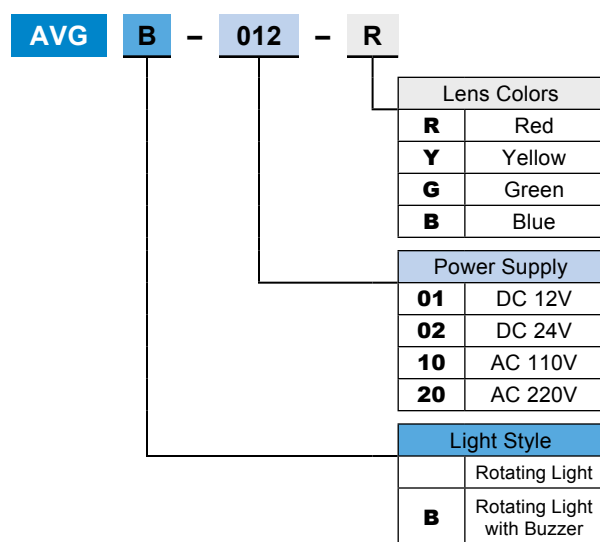
ASG-110&220-□ ASGS-110-□  
ASGB-110&220-□ ASGS-220-□



Three different colored LED traffic lights are shown side-by-side. From left to right, they are red, yellow, and green. Each light has a white base and a translucent colored top section. The red light is on the left, the yellow light is in the middle, and the green light is on the right. Each light has a single bulb visible inside the colored section.

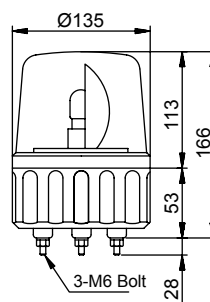
- Incandescent type
- Red, Yellow, Green and Blue lens available
- Smooth lens
- Large rotating reflector
- Long life
- Stud mounted
- Optional Wall Mounting Bracket (MAM-DS27) available
- Buzzer (80dB) model available

## Specifications



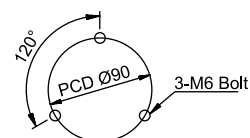
| Model                  |        | AVG                          | AVGB  |
|------------------------|--------|------------------------------|-------|
| Bulb Type              |        | Incandescent                 |       |
| Power Supply           |        | 12VDC, 24VDC, 110VAC, 220VAC |       |
| Current Draw & Wattage | 12VDC  | 2.08A, 25W                   |       |
|                        | 24VDC  | 1.04A, 25W                   |       |
|                        | 110VAC | 0.22A, 25W                   |       |
|                        | 220VAC | 0.11A, 25W                   |       |
| Sound Level            |        | —                            | 80 dB |
| Rotation Rate          |        | 150 times/minute             |       |

## Dimensions



unit: mm

### Stud Mount Hole Layout



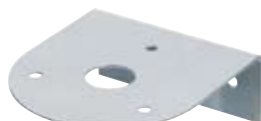
## Optional Orders

## Replacement Parts

|             |                         |                                 |
|-------------|-------------------------|---------------------------------|
| <b>Bulb</b> | <b>MAB-T15-D-012-25</b> | 12V DC, 25 Watt                 |
|             | <b>MAB-T15-D-024-25</b> | 24V DC, 25 Watt                 |
|             | <b>MAB-T15-D-130-25</b> | 110V AC, 25 Watt                |
|             | <b>MAB-T15-D-240-25</b> | 220V AC, 25 Watt                |
| <b>Lens</b> | <b>LENS-AVG-(□)</b>     | Smooth Lens for Rotating Lights |

(□): indicates color of Lens; R, Y, G or B

## Wall Mount Brackets



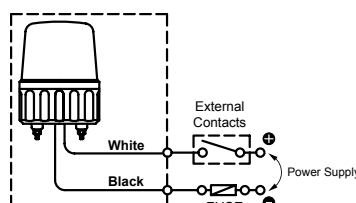
MAM-DS27

**NOTE:** See **Page 14** for Dimensions.

## Wiring Diagram

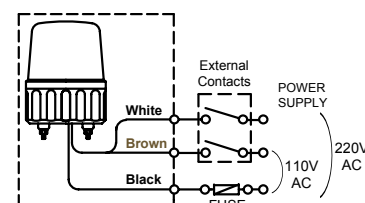
## DC 12V & DC 24V

AVG-01-□    AVGB-01-□  
AVG-02-□    AVGB-02-□



## AC 110V & AC 220V

AVG-10-□    AVGB-10-□  
AVG-20-□    AVGB-20-□



### SIGNAL LIGHTS



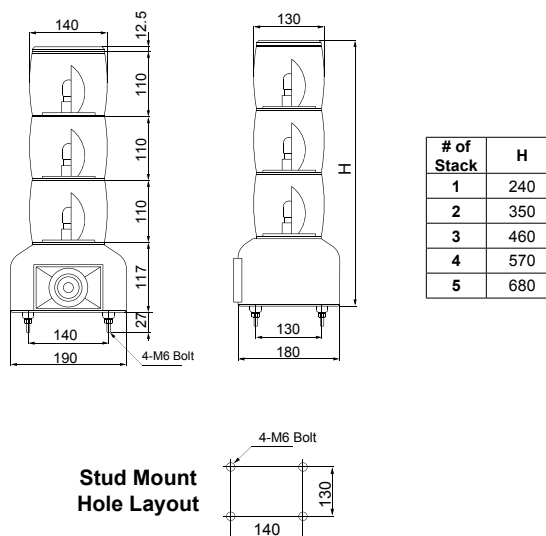
- Incandescent type
- Outstanding visibility by magnified lens
- Red, Yellow, Green, Blue or Clear lens available
- Large rotating reflector
- Selectable audio sounds: melody, two tone and siren (100dB)
- Stud mounted

### Specifications

|                        |        |                              |
|------------------------|--------|------------------------------|
| Model                  |        | MSGS                         |
| Bulb Type              |        | Incandescent                 |
| Power Supply           |        | 12VDC, 24VDC, 110VAC, 220VAC |
| Current Draw & Wattage | 12VDC  | 2.08A, 25W                   |
|                        | 24VDC  | 1.04A, 25W                   |
|                        | 110VAC | 2.08A, 25W                   |
|                        | 220VAC | 2.08A, 25W                   |
| Rotation Rate          |        | 150 times/minute             |

### Dimensions

unit: mm



### Order Information

**MSGS - 012 - 5 - RYGBC**

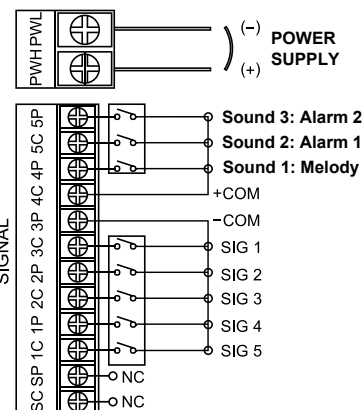
| Lens Colors (top to bottom) |        |
|-----------------------------|--------|
| <b>R</b>                    | Red    |
| <b>Y</b>                    | Yellow |
| <b>G</b>                    | Green  |
| <b>B</b>                    | Blue   |
| <b>C</b>                    | Clear  |

| Number of Stacks |          |
|------------------|----------|
| <b>1</b>         | 1 Light  |
| <b>2</b>         | 2 Lights |
| <b>3</b>         | 3 Lights |
| <b>4</b>         | 4 Lights |
| <b>5</b>         | 5 Lights |

| Power Supply |         |
|--------------|---------|
| <b>012</b>   | DC 12V  |
| <b>024</b>   | DC 24V  |
| <b>110</b>   | AC 110V |
| <b>220</b>   | AC 220V |

### Wiring Diagram

#### Terminal Connections



### Optional Orders

#### Replacement Parts

|      |                         |                  |
|------|-------------------------|------------------|
| Bulb | <b>MAB-T15-D-012-25</b> | 12V DC, 25 Watt  |
|      | <b>MAB-T15-D-024-25</b> | 24V DC, 25 Watt  |
|      | <b>MAB-T15-D-130-25</b> | 110V AC, 25 Watt |
|      | <b>MAB-T15-D-240-25</b> | 220V AC, 25 Watt |
| Lens | <b>LENS-MSGS-(□)</b>    | Lens             |

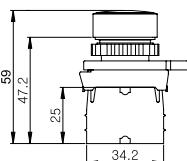
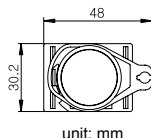
(□): indicates color of Lens; R, Y, G, B or C

\*CAUTION: Do not operate more than one light at a time. It can cause over heat on transformers.

# MC2 Ø22mm Push Buttons & Control Switches

## Momentary Push Buttons

- Momentary Push
- Single Normally Open contact
- Flush Mount Accessory and Water Proof Protector available



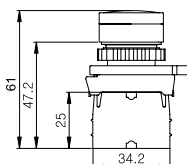
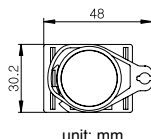
unit: mm

MC2 - **P** **R** - **A**

| CONTACT BLOCK |                       |
|---------------|-----------------------|
| <b>A</b>      | NO Contact            |
| <b>B</b>      | NC Contact            |
| COLOR         |                       |
| <b>R</b>      | RED                   |
| <b>Y</b>      | YELLOW                |
| <b>G</b>      | GREEN                 |
| <b>B</b>      | BLUE                  |
| <b>K</b>      | BLACK                 |
| STYLE         |                       |
| <b>P</b>      | Momentary Push Button |

## Illuminated Push Buttons

- Momentary Push
- Single Normally Open contact included
- AC/DC LED configuration in various colors
- Flush Mount Accessory and Water Proof Protector available



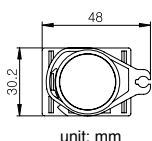
unit: mm

MC2 - **LPS** **R** - **A** **D**

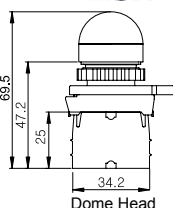
| LED           |                         |
|---------------|-------------------------|
| <b>D</b>      | 12~30V DC/AC LED        |
| <b>L</b>      | 110~220V AC LED         |
| CONTACT BLOCK |                         |
| <b>A</b>      | NO Contact              |
| <b>B</b>      | NC Contact              |
| COLOR         |                         |
| <b>R</b>      | RED                     |
| <b>Y</b>      | YELLOW                  |
| <b>G</b>      | GREEN                   |
| <b>B</b>      | BLUE                    |
| <b>C</b>      | CLEAR                   |
| STYLE         |                         |
| <b>LPS</b>    | Illuminated Push Button |

## Pilot Lamps

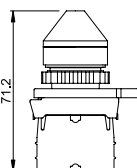
- LED illumination with clear visibility
- AC/DC LED configuration in various colors



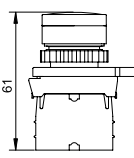
unit: mm



Dome Head



Horn Head



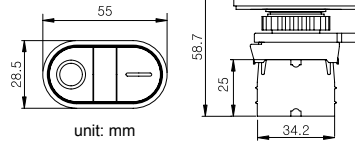
Flush Head

MC2 - **PI** **D** **R** - **D**

| LED        |                  |
|------------|------------------|
| <b>D</b>   | 12~30V DC/AC LED |
| <b>L</b>   | 110~220V AC LED  |
| COLOR      |                  |
| <b>R</b>   | RED              |
| <b>Y</b>   | YELLOW           |
| <b>G</b>   | GREEN            |
| <b>B</b>   | BLUE             |
| <b>C</b>   | CLEAR            |
| HEAD STYLE |                  |
| <b>D</b>   | Dome Head        |
| <b>H</b>   | Horn Head        |
| <b>F</b>   | Flush Head       |
| STYLE      |                  |
| <b>PI</b>  | Pilot Lamp       |

## Double Push Buttons

- Momentary Push
- Normally Open and Normally Closed contact blocks
- LED illumination

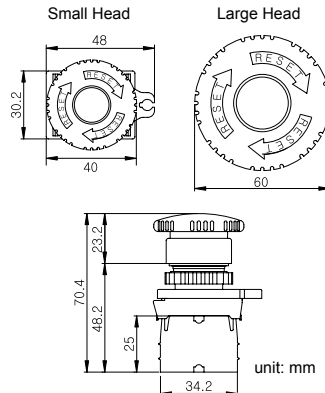


MC2 - **2P** **RG** - **AB** **D**

| LED            |                              |
|----------------|------------------------------|
| <b>D</b>       | 12~30V DC/AC LED             |
| <b>L</b>       | 110~220V AC LED              |
| CONTACT BLOCKS |                              |
| <b>AB</b>      | 1 NO Contact<br>1 NC Contact |
| COLOR          |                              |
| <b>RG</b>      | Red & Green                  |
| STYLE          |                              |
| <b>2P</b>      | Double Push Button           |

## Emergency Stops

- Ø40 or Ø60mm Mushroom heads
- Push Lock & Twist-to-release
- Illuminated or non-illuminated styles
- UL, cUL, CE approved contact blocks

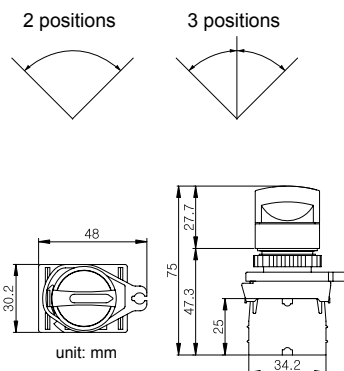


MC2 - **E** **S** **R** - **B** **D**

| LED           |                            |
|---------------|----------------------------|
|               | Non-Illumination           |
| <b>D</b>      | 12~30V DC/AC LED           |
| <b>L</b>      | 110~220V AC LED            |
| CONTACT BLOCK |                            |
| <b>B</b>      | NC Contact                 |
| COLOR         |                            |
| <b>R</b>      | RED                        |
| HEAD          |                            |
| <b>S</b>      | Small Head (Ø40mm)         |
| <b>L</b>      | Large Head (Ø60mm)         |
| STYLE         |                            |
| <b>E</b>      | Emergency Stop             |
| <b>LE</b>     | Illuminated Emergency Stop |

## Selector Switches

- Available in 2 or 3 position selection
- Fixed Position or Auto Spring Return Styles



MC2 - **S** **S** **W2** **S** - **A**

| CONTACT BLOCK       |                                   |
|---------------------|-----------------------------------|
| <b>A</b>            | 2 Positions<br>Single NO contact  |
| <b>AA</b>           | 3 Positions<br>Double NO contacts |
| Function            |                                   |
| <b>S</b>            | Fixed Position                    |
| <b>M</b>            | Auto Spring Return                |
| Number of Positions |                                   |
| <b>W2</b>           | 2 Positions 90°                   |
| <b>W3</b>           | 3 Positions 45°                   |
| Selector Head       |                                   |
| <b>S</b>            | Knob                              |
| <b>L</b>            | Lever                             |
| STYLE               |                                   |
| <b>S</b>            | Selector Switch                   |

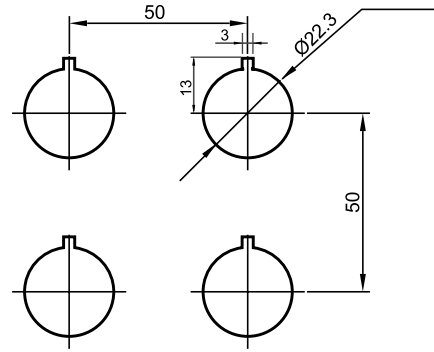
## Buzzers

- Selectable Continuous and Intermittent Sound
- LED Illumination
- AC/DC 12~30V rated

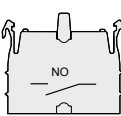
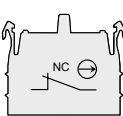
### MC2-B-D



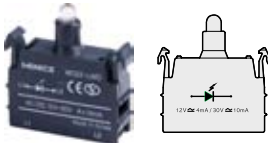
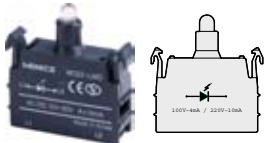
## Ø22 Push Button Mounting Hole Layout & Panel Cutout



## Contact Blocks

| Model            | NO Contact                                                                         | MC22-UA                                                                           | NC Contact                                                                        | MC22-UB                                                                           |
|------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Appearance       |   |  |  |  |
| Contact Capacity | 110 VAC 10A / 220 VAC 5A                                                           |                                                                                   |                                                                                   |                                                                                   |
| Approval         |  |                                                                                   |                                                                                   |                                                                                   |

## LEDs

| Model               | DC/AC<br>LED                                                                          | MC22-UA                                                                             | AC<br>LED   | MC22-UB |
|---------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|---------|
| Appearance          |     |  |             |         |
| Operating Voltage   | DC/AC 12~30V                                                                          |                                                                                     | AC 110~220V |         |
| Current Consumption | 4~10mA                                                                                |                                                                                     | 4~10mA      |         |
| LED Life            | 50,000 hours                                                                          |                                                                                     |             |         |
| Approval            |  |                                                                                     |             |         |

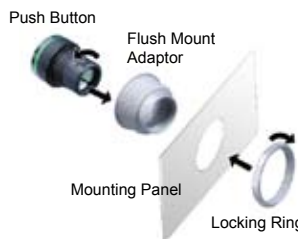
## Specifications

| Control Switches           |             | Push Buttons                  | Illuminated Push Buttons | Pilot Lamps | Selector Switches | Emergency Stops | Double Push Buttons | Buzzer        |                          |
|----------------------------|-------------|-------------------------------|--------------------------|-------------|-------------------|-----------------|---------------------|---------------|--------------------------|
| Model                      |             | MC2-P                         | MC2-LP                   | MC2-PI      | MC2-S             | MC2-E           | MC2-2P              | MC2-B-D       |                          |
| Life                       | Mechanical  | 50,000 times (20 times/min)   |                          |             |                   |                 |                     | Rated Voltage | AC/DC 12~30V             |
|                            | Electrical  | 100,000 times (20 times/min)  |                          |             |                   |                 |                     | Current       | 60mA                     |
|                            |             |                               |                          |             |                   |                 |                     | Sound Level   | 85dB @ 0.1m<br>75dB @ 1m |
| Protection Degree          |             | IP52                          |                          |             |                   |                 | IP50                | IP40          |                          |
| Initial Contact Resistance |             | 20MΩ maximum                  |                          |             |                   |                 |                     |               |                          |
| Insulation Resistance      |             | Min.100MΩ                     |                          |             |                   |                 |                     | Min.50MΩ      |                          |
| Operation Frequency        |             | Max. 30 times/min             |                          |             |                   |                 |                     | 2~3 times/sec |                          |
| Impact                     | Endurance   | Min. 500m/s <sup>2</sup>      |                          |             |                   |                 |                     |               |                          |
|                            | No movement | Min. 100m/s <sup>2</sup>      |                          |             |                   |                 |                     |               |                          |
| Vibration                  |             | 10~55Hz with 3mm pick to pick |                          |             |                   |                 |                     |               |                          |

Operating Temperature: -15~40°C    Operating Humidity: 45~85%RH    Storage Temperature: -40~70°C

## Accessories

### Flush Mount Adaptor



| MC22-FP                      | MC22-FL                                    |
|------------------------------|--------------------------------------------|
|                              |                                            |
| for Push Buttons<br>MC2-P□-□ | for Illuminated Push Buttons<br>MC2-LP□-□□ |

### Water Proof Cap



| MW-25P                       | MW-25L                                     |
|------------------------------|--------------------------------------------|
|                              |                                            |
| for Push Buttons<br>MC2-P□-□ | for Illuminated Push Buttons<br>MC2-LP□-□□ |

### E-Stop Accessories

| Nameplates |         | Shroud      |             |             |
|------------|---------|-------------|-------------|-------------|
| MP-25-S    | MP-25-L | MPC-KA-LD22 | MPC-KA-LD25 | MPC-KA-LD30 |
|            |         | Ø22mm       | Ø25mm       | Ø30mm       |
|            |         |             |             |             |

### Locking Ring Wrench



| MC-P100 |
|---------|
|         |

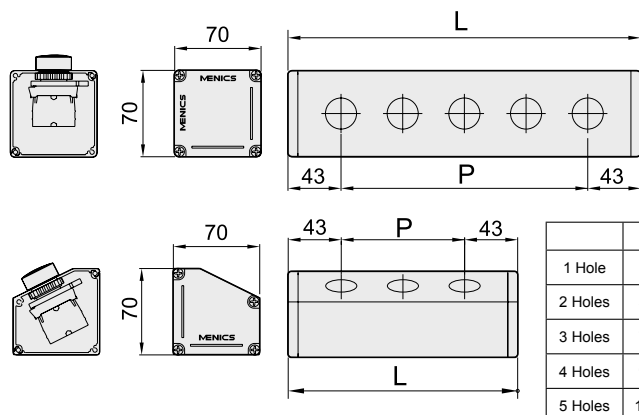
## Switch Boxes

### Aluminum Boxes



MB70 - **S** - **01**

| NUMBER OF HOLES |                    |
|-----------------|--------------------|
| <b>01</b>       | 1 Hole             |
| <b>02</b>       | 2 Holes            |
| <b>03</b>       | 3 Holes            |
| <b>04</b>       | 4 Holes            |
| <b>05</b>       | 5 Holes            |
| <b>X</b>        | X Holes (optional) |
| BOX STYLE       |                    |
| <b>S</b>        | Square Side        |
| <b>T</b>        | Triangular Side    |



|         | L               | P              |
|---------|-----------------|----------------|
| 1 Hole  | 3.4 in (86mm)   | —              |
| 2 Holes | 5.4 in (136mm)  | 2 in (50mm)    |
| 3 Holes | 7.3 in (186mm)  | 3.9 in (100mm) |
| 4 Holes | 9.3 in (236mm)  | 5.9 in (150mm) |
| 5 Holes | 11.3 in (286mm) | 7.9 in (200mm) |

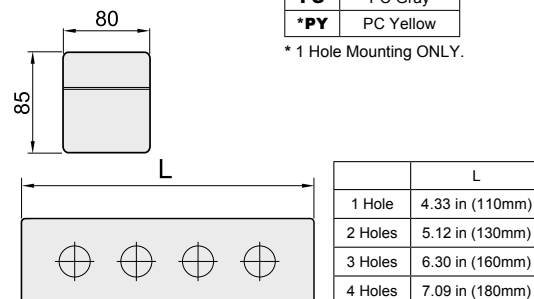
### Plastic Boxes

IP 67 / NEMA 4x



BC - **AG** **S** - **01**

| NUMBER OF HOLES |            |
|-----------------|------------|
| <b>01</b>       | 1 Hole     |
| <b>02</b>       | 2 Holes    |
| <b>03</b>       | 3 Holes    |
| <b>04</b>       | 4 Holes    |
| BOX STYLE       |            |
| <b>S</b>        | Screw Lock |
| BOX MATERIAL    |            |
| <b>AG</b>       | ABS Gray   |
| <b>PG</b>       | PC Gray    |
| <b>*PY</b>      | PC Yellow  |



|         | L               |
|---------|-----------------|
| 1 Hole  | 4.33 in (110mm) |
| 2 Holes | 5.12 in (130mm) |
| 3 Holes | 6.30 in (160mm) |
| 4 Holes | 7.09 in (180mm) |

[www.AutonicsOnline.com](http://www.AutonicsOnline.com)

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Email: [sales@autonicsusa.net](mailto:sales@autonicsusa.net)

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