

# SPECIFICATIONS

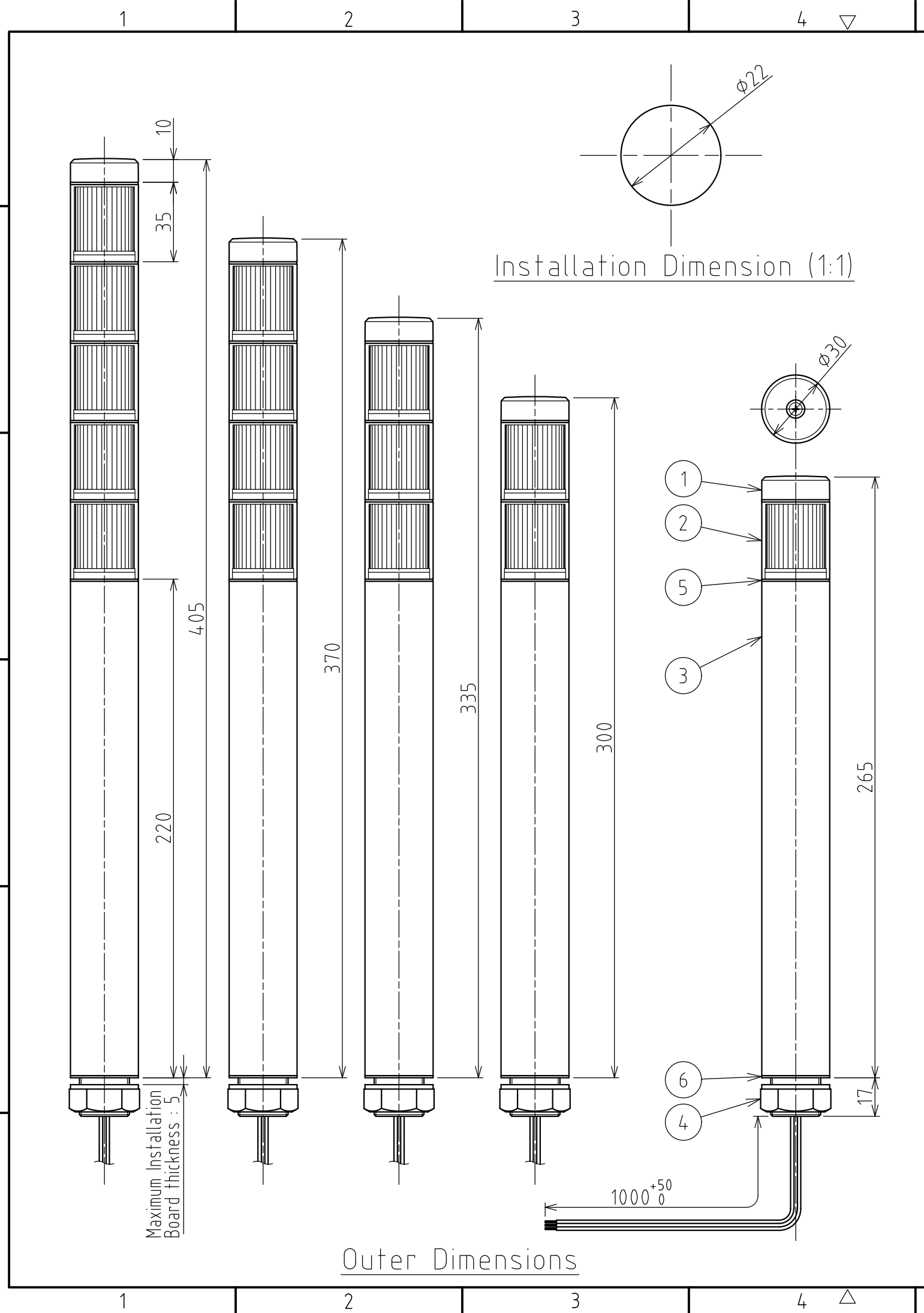
[General Specifications]

|                               |         |   |
|-------------------------------|---------|---|
| Model                         | 5 tiers | MP-502  |
|                               | 4 tiers | MP-402  |
|                               | 3 tiers | MP-302  |
|                               | 2 tiers | MP-202  |
|                               | 1 tier  | MP-102  |
| UL Registered Model           |         | MP_02   |
| Rated Voltage                 |         | 24V AC/DC (50/60Hz)   |
| Operating Voltage Range       |         | Rated Voltage $\pm 10\%$  |
| Signal Wire Current           | Typ.    | Per Unit  |
|                               |         | Red:29.0mA, Amber:29.5mA, Green:17.1mA, Blue:17.1mA, White:17.1mA                                       |
|                               | Max.    | Per Unit  |
|                               |         | Red:32.7mA, Amber:34.5mA, Green:21.4mA, Blue:21.4mA, White:21.4mA                                       |
| Operating Ambient Temperature |         | -30°C to +60°C  |
| Operating Ambient Humidity    |         | Less than 90% (No condensation)   |
| Mounting Location             |         | Indoors   |
| Mounting Direction            |         | Upright   |
| Protection Rating             |         | IP65 (IEC 60529)  |
| Vibration Resistance          |         | 19.6m/s <sup>2</sup>  |
| Insulation Resistance         |         | More than 1M $\Omega$ at 500VDC between the terminals and the chassis                                   |
| Withstand Voltage             |         | 500VAC applied for 1min between terminals and chassis without breaking insulation                       |
| Luminous Intensity            |         | Red:550mcd, Amber:650mcd, Green:1900mcd, Blue:700mcd, White:1600mcd                                     |
| Mass (Tolerance $\pm 10\%$ )  |         | 1 tier:0.21kg, 2 tiers:0.23kg, 3 tiers:0.25kg, 4 tiers:0.27kg, 5 tiers:0.29kg                           |
| Outer Dimensions              |         | Refer to the Outer Dimension Drawing  |
| Conformity Standards          |         | EMC Directive (EN 61000-6-4, EN 61000-6-2)<br>RoHS Directive (EN IEC 63000)<br>UL 508, CSA-C22.2 No. 14 |
| Remarks                       |         | Conforms to the CE requirements<br>UL Recognized Component (File No.E215660)                            |

Model Number Configuration

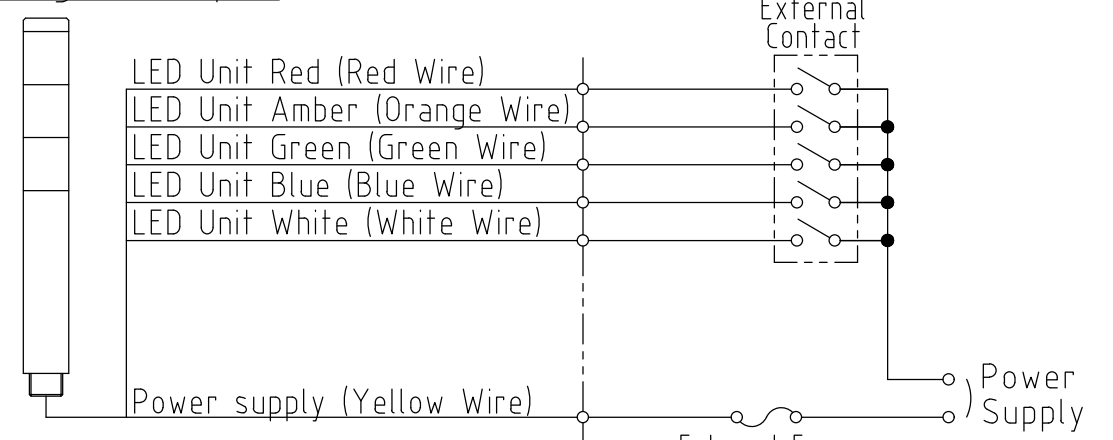
MP - 02 -

- |   |   |
|---|---|
| <p>Tier</p> <p>1 : 1 tier</p> <p>2 : 2 tiers</p> <p>3 : 3 tiers</p> <p>4 : 4 tiers</p> <p>5 : 5 tiers</p> | <p>Luminous Color</p> <p>R : Red</p> <p>Y : Amber</p> <p>G : Green</p> <p>B : Blue</p> <p>C : White</p> |
|---|---|

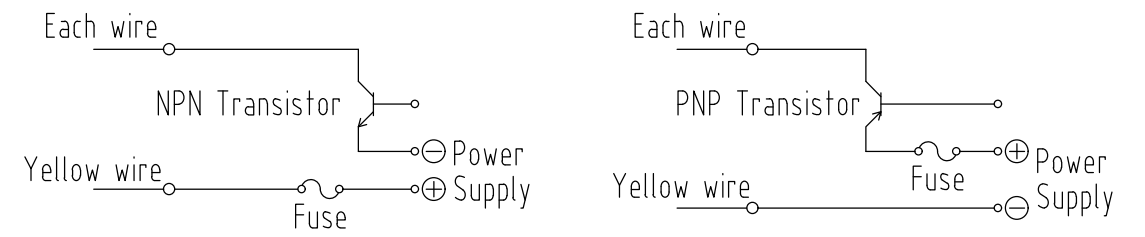


|                                |          |                                     |                |     |     |      |                |            |          |       |
|--------------------------------|----------|-------------------------------------|----------------|-----|-----|------|----------------|------------|----------|-------|
| 指定公差<br>Angular tolerance ±[°] |          | 寸法公差<br>Dimensional tolerance ±[mm] |                |     |     |      | 図番 Drawing No. |            | ページ Page |       |
| 短辺長さ<br>Length of short side   | ~        | ~                                   | 6              | 30  | 120 | 300  | 1000           | MP-502-W18 |          | 2 / 2 |
| 精 f                            | 10       | 50                                  | 100            | ~   | 精 f | 0.05 | 0.1            | 0.2        | 0.4      | 0.6   |
| 中 m                            | 1        | 0.5                                 | 0.3            | 0.1 | 中 m | 0.1  | 0.3            | 0.5        | 0.7      | 1     |
| 粗 v                            | 3        | 1.5                                 | 1              | 0.5 | 粗 c | 0.3  | 0.5            | 1          | 1.2      | 2     |
| 改訂 Rev.                        | 年月日 Date |                                     | 改訂履歴 Revisions |     |     |      |                |            |          |       |

Wiring Example (wire:UL1007/AWG22)



Transistor drive example(24V DC)



Note

- When wiring is completed, insulate the end of each unused wire with insulation tape.
- Use a "Class 2 Circuit" for power supply source.
- Use the fusefolder authorized by UL standard.
- Use the fuse conforming to the rated current of the machine which the product was installed on.  
(Example : Class J type fuse)
- Fasten nut with the torque of  $3.5 \pm 0.5 \cdot \text{N} \cdot \text{m}$ .

|           |                  |            |                       |
|-----------|------------------|------------|-----------------------|
| 6         | Waterproof Sheet | 1          | CR, Black             |
| 5         | O Ring           | n+1        | Si, Gray              |
| 4         | Nut              | 1          | M22, P=1.5            |
| 3         | Body             | 1          | ABS, Silver coating   |
| 2         | LED Unit         | n          | Lens:AS/Reflector:ABS |
| 1         | Head Cover       | 1          | ABS, Silver coating   |
| 番号<br>No. | 部品名<br>Part Name | 数量<br>Qty. | 記事<br>Remarks         |

|                   |        |                  |     |                             |                          |
|-------------------|--------|------------------|-----|-----------------------------|--------------------------|
| 機種<br>Model       | MP-502 | 特注No.<br>S.P.No. | -   | 図名<br>Name                  | Outer Dimensions Drawing |
| 品目コード<br>Part No. | -      | 尺度<br>Scale      | 1:2 | 三角法<br>3rd Angle P.         | 単位<br>Unit<br>mm         |
|                   |        |                  |     | 株式会社<br>PATLITE Corporation |                          |