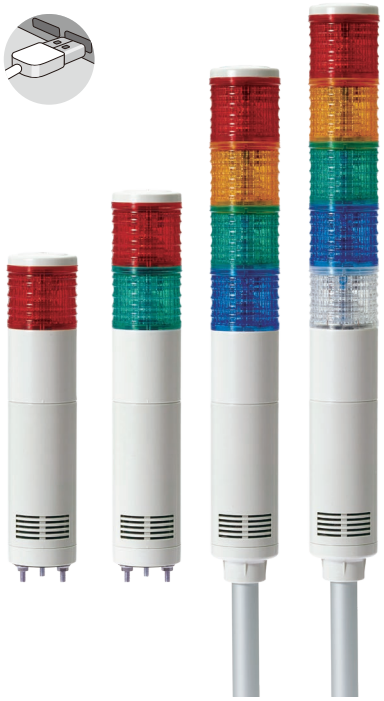
# ST45(M)L-USB

USB | IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

**Connected to PC USB port without power supply unit**



ST45(M)L-USB Series

## PRODUCT SPECIFICATION

ST45(M)L-USB
ST56, 80(M)EL-USB

**Buzzer sounds** Max.90dB at 1m
**Warning sounds** Max.85dB at 1m(Based on WS-Ch1)
**Protection rating** IP23
**Compliant with RoHS directive**

- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- Up to 16 units can be connected to one PC through user settings.
- Signal lights support simultaneous operation of up to 2 layers.
- I/O input support enables redundant lamp control through PLC contacts in the event of a communication error. (Customized option)
- I/O output support enables status signals to be transmitted to an external PLC or control device, and external devices can be operated if required. (Customized option)
- Uses the HID driver, allowing operation without a separate device driver.

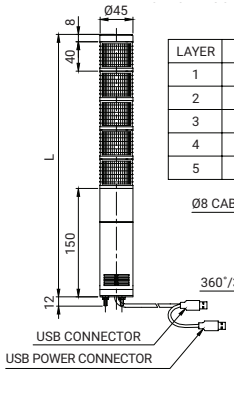
## ST45L-USB Ø45mm Pole Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST45L-USB-BZ<br>ST45L-USB-WS<br>ST45L-USB-WM<br>ST45L-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | CE | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

## Technical Diagram

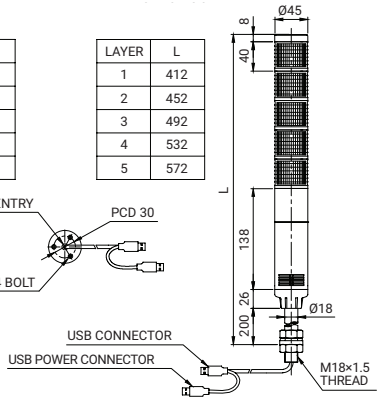
Units : mm

**·ST45ML-USB**




| LAYER | L |
|---|---|
| 1 | 198 |
| 2 | 238 |
| 3 | 278 |
| 4 | 318 |
| 5 | 358 |

**·ST45L-USB**




| LAYER | L |
|---|---|
| 1 | 412 |
| 2 | 452 |
| 3 | 492 |
| 4 | 532 |
| 5 | 572 |

## ST45ML-USB Ø45mm Direct Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST45ML-USB-BZ<br>ST45ML-USB-WS<br>ST45ML-USB-WM<br>ST45ML-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | CE | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

## Mounting bracket

| Standard | LB18 | LW18 | QZ18 |
|---|---|---|---|
|  |  |  |  |
| Steel | Steel | ABS | ABS |
| SZ18 | QL18 | SL18 | SLB370 |
|  |  |  |  |
| Al | ABS | Al | PC, Steel |

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

## Customization

- External I/O contact interface
- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

## Ordering Specification

| ST45L-USB-BZ | - | 3 | - | RAG | - | LW18 |
|---|---|---|---|---|---|---|

[Model number]
ST45L-USB-BZ
ST45L-USB-WS
ST45L-USB-WM
ST45L-USB-WA
ST45ML-USB-BZ
ST45ML-USB-WS
ST45ML-USB-WM
ST45ML-USB-WA

[Layers]
1-1 Layer
2-2 Layers
3-3 Layers
4-4 Layers
5-5 Layers

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Bracket]
None-Standard Bracket
-LB18 -LW18
-QZ18 -SZ18
-QL18 -SL18
-SLB370

※ Mount brackets are available for the pole mount type(ST45L-USB series) only.

Ø56mm USB LED Tower Lights

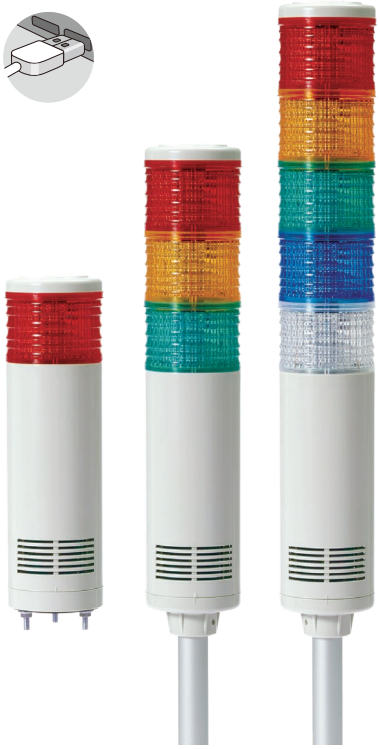
# ST56(M)EL-USB

USB | IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

**Connected to PC USB port without power supply unit**

## ST56EL-USB Ø56mm Pole Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST56EL-USB-BZ<br>ST56EL-USB-WS<br>ST56EL-USB-WM<br>ST56EL-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | CE | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

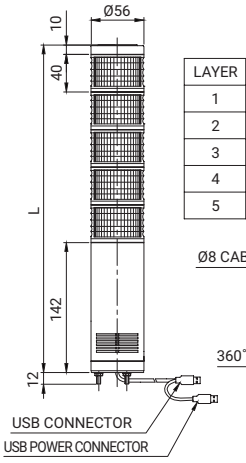


ST56(M)EL-USB Series

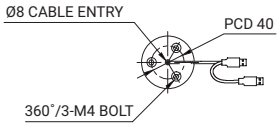
## Technical Diagram

Units : mm

·ST56MEL-USB




| LAYER | L |
|---|---|
| 1 | 192 |
| 2 | 232 |
| 3 | 272 |
| 4 | 312 |
| 5 | 352 |




·ST56EL-USB




| LAYER | L |
|---|---|
| 1 | 406 |
| 2 | 446 |
| 3 | 486 |
| 4 | 526 |
| 5 | 566 |

## ST56MEL-USB Ø56mm Direct Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST56MEL-USB-BZ<br>ST56MEL-USB-WS<br>ST56MEL-USB-WM<br>ST56MEL-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | CE | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

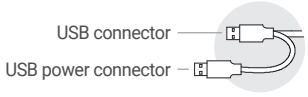
## Mounting bracket

| Standard | LB18 | LW18 | QZ18 | SZ18 | QL18 | SL18 | SLB370 |
|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Steel | Steel | ABS | ABS | Al | ABS | Al | PC, Steel |

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

## Wiring Instructions

· Connect both USB connector and USB power connector to PC




## Ordering Specification

ST56EL-USB-WS - 3 - RAG - QL18

| [Model number] | [Layers] | [Color] | [Bracket] |
|---|---|---|---|
| ST56EL-USB-BZ<br>ST56EL-USB-WS<br>ST56EL-USB-WM<br>ST56EL-USB-WA<br>ST56MEL-USB-BZ<br>ST56MEL-USB-WS<br>ST56MEL-USB-WM<br>ST56MEL-USB-WA | 1-1 Layer<br>2-2 Layers<br>3-3 Layers<br>4-4 Layers<br>5-5 Layers | R-Red<br>A-Amber<br>G-Green<br>B-Blue<br>W-White | None-Standard Bracket<br>-LB18 -LW18<br>-QZ18 -SZ18<br>-QL18 -SL18<br>-SLB370 |

※ Mount brackets are available for the pole mount type(ST56EL-USB series) only.

## Customization

· External I/O contact interface
· Customized color arrangement available
· Customized pole length available
· 70mm lens height(Standard: 40mm)
· Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

# ST80(M)EL-USB

USB | IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

**Connected to PC USB port without power supply unit**





ST80(M)EL-USB Series

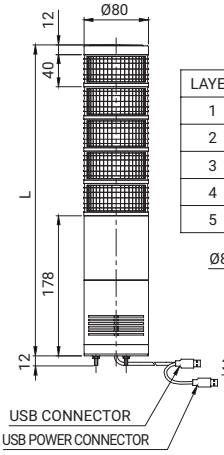
## ST80EL-USB Ø80mm Pole Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST80EL-USB-BZ<br>ST80EL-USB-WS<br>ST80EL-USB-WM<br>ST80EL-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | - | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

## Technical Diagram

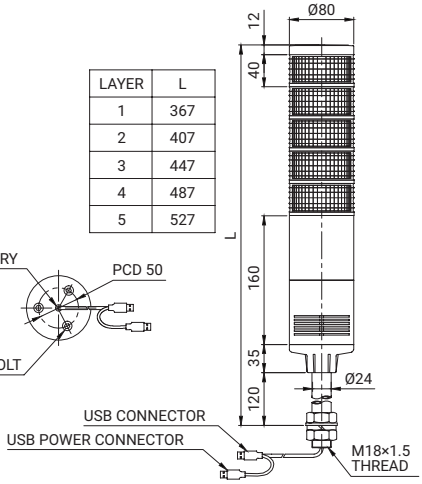
Units : mm

·ST80MEL-USB




| LAYER | L |
|---|---|
| 1 | 230 |
| 2 | 270 |
| 3 | 310 |
| 4 | 350 |
| 5 | 390 |

·ST80EL-USB



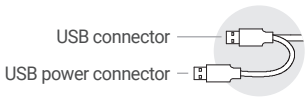

| LAYER | L |
|---|---|
| 1 | 367 |
| 2 | 407 |
| 3 | 447 |
| 4 | 487 |
| 5 | 527 |

## ST80MEL-USB Ø80mm Direct Mount USB LED Tower Light

| Model number | | Layers | Certificates | Color |
|---|---|---|---|---|
| ST80MEL-USB-BZ<br>ST80MEL-USB-WS<br>ST80MEL-USB-WM<br>ST80MEL-USB-WA | 5 Buzzer sounds<br>5 Warning sounds<br>5 Melodies<br>5 Alarms | 1 layer<br>2 layers<br>3 layers<br>4 layers<br>5 layers | - | 1 layer: R<br>2 layers: R G<br>3 layers: R A G<br>4 layers: R A G B<br>5 layers: R A G B W |

## Wiring Instructions

· Connect both USB connector and USB power connector to PC




## Mounting bracket

| Standard | LB24 | LW24 | QZ24 |
|---|---|---|---|
|  |  |  |  |
| Steel | Steel | ABS | ABS |
| SZ24 | QL24 | SL24 | |
|  |  |  | |
| Al | ABS | Al | |

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

## Customization

· External I/O contact interface
· Customized color arrangements
· 70mm lens height(Standard 40mm)
· Customized pole length available
· Wall mount bracket



Wall mount bracket TWS80



Wall mount bracket TWA80

## Ordering Specification

| ST80EL-USB-WS | - | 3 | - | RAG | - | QL24 |
|---|---|---|---|---|---|---|

[Model number]
ST80EL-USB-BZ
ST80EL-USB-WS
ST80EL-USB-WM
ST80EL-USB-WA
ST80MEL-USB-BZ
ST80MEL-USB-WS
ST80MEL-USB-WM
ST80MEL-USB-WA

[Layers]
1-1 Layer
2-2 Layers
3-3 Layers
4-4 Layers
5-5 Layers

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Bracket]
None-Standard Bracket
-LB24 -LW24
-QZ24 -SZ24
-QL24 -SL24

※ Mount brackets are available for the pole mount type(ST80EL-USB series) only.