

## STD Series

A variety of pre-recorded sound patterns-warning sounds, melodies, and alarms



STD Series

### PRODUCT SPECIFICATION

STDL

**Materials** Lens-AS, Cover-ABS, Housing-ABS, Reflector-Heat resistant ABS

**Ambient operating temperature** -30°C to +50°C

**Protection rating** IP54

**Standard color arrangements**

1 Layer: ● Red

2 Layers: ● Red ● Green

3 Layers: ● Red ● Amber ● Green

4 Layers: ● Red ● Amber ● Green ● Blue

5 Layers: ● Red ● Amber ● Green ● Blue ○ Clear White

**Flashing rate** 60-80/min

**Compliant with RoHS directive**

- LED steady/flashing mode
- Available for customized color arrangements
- Ø80mm stackable light and electric horn combination provides both audible and visual signaling capability in one unit
- Appropriate sound tones can be chosen depending on the various working environment among various available sound tones
- 5 selectable sound pattern combinations(5 warning sounds, 5 special warning sounds, 5 melodies, 5 alarms)
- WV type: Input audio message needs to be provided to us by the customer prior to manufacturing

### STDL LED Steady/Flashing Tower Light & Electric Horn

Model number	Layer	Voltage	Sound pattern and volume	Certificates	Weight	Color
STDL Steady  STDLF Steady/Flashing	1	DC12V	·WS-5 Warning sounds: Max.105dB ·WM-5 Melodies: Max.103dB ·WA-5 Alarms: Max.103dB ·WV-5 Customizable sounds : 91-100dB	CE	0.80kg	● R-Red
		DC24V			0.80kg	
		AC110V			1.39kg	
		AC220V			1.39kg	
	2	DC12V			0.91kg	● R-Red ● G-Green
		DC24V			0.91kg	
		AC110V			1.36kg	
		AC220V			1.36kg	
	3	DC12V			1.05kg	● R-Red ● A-Amber ● G-Green
		DC24V			1.05kg	
		AC110V			1.49kg	
		AC220V			1.49kg	
	4	DC12V			1.16kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V			1.16kg	
		AC110V			1.61kg	
		AC220V			1.61kg	
	5	DC12V			1.30kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V			1.30kg	
		AC110V			1.74kg	
		AC220V			1.74kg	

※ CE compliant: DC24V

※ Max.built-in volume feature is based on WS-Ch3 / WM-Ch4 / WA-Ch1.

※ In case of customized WV 5 tone type, there may be difference of volume depending on user's audio file type.

※ Please refer to [Sound tone and combination for standard product] on this catalogue for detailed sound tone specification.

#### Light source/signal sound current(based on 1 layer)

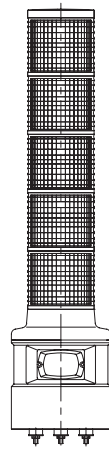
Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	160mA	95mA	70mA	55mA
Signal sound current	280mA	210mA	85mA	45mA



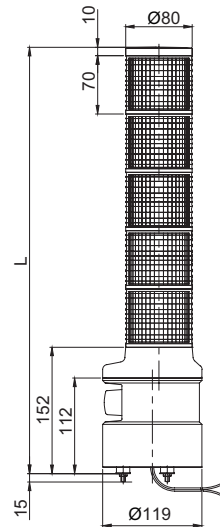
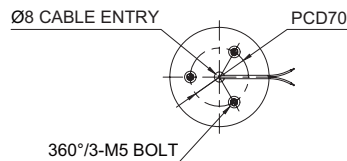
## Technical Diagram

Units: mm

### ·STDL / STDLF



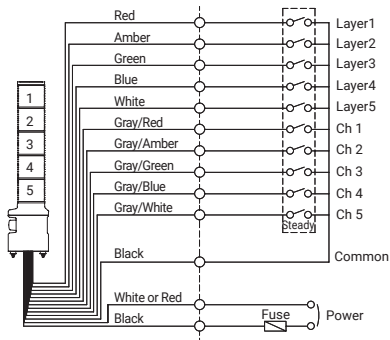
LAYER	L
1	232
2	302
3	372
4	442
5	512



## Wiring Instructions

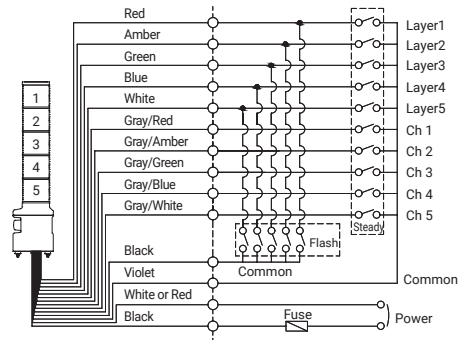
### ·STDL-DC/AC(Steady)

External Contact



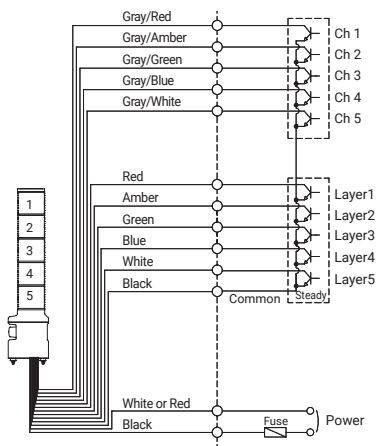
### ·STDLF-DC/AC(Steady/Flashing)

External Contact



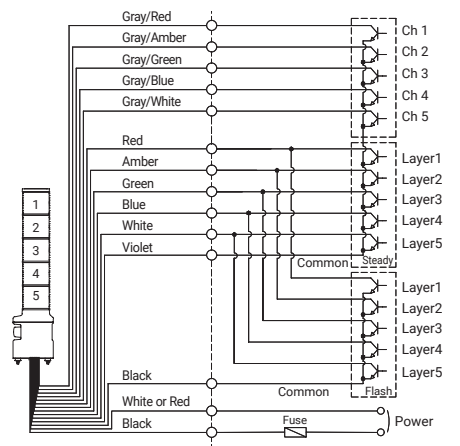
### ·STDL-DC/AC(Steady)

External transistor-NPN



### ·STDLF-DC/AC(Steady/Flashing)

External transistor-NPN



- External Power line UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line UL1007 AWG22(0.3sq) 400mm
- This product can be wired regardless of polarity.



Do not apply a voltage to each signal line. It may cause damage to the product

- STDL / STDLF model wiring can be done with either External Contact or External transistors.
- In case of wiring by using transistor, NPN transistor is needed and follow the wiring diagram on the right in order to wire properly.

## STD Series

### Customization

Model number	Lens Diameter	Lens Height	Light Mode	Tower Light Part Model
STD56EL(F)	Ø56mm	40mm	LED Steady/Flashing	ST56EL
STD56L(F)	Ø56mm	70mm	LED Steady/Flashing	ST56L
STDEL(F)	Ø80mm	40mm	LED Steady/Flashing	ST80EL

- Customized light sources and light mode
- Customized color arrangements available
- Wall mount brackets
- Optional 8 harmonies(Model number: STD56EL(F), STD56L(F), STDEL(F), STD56B Series, STD80B Series, STD80EL Series)

### Ordering Specification

STD L	-	WA	-	3	-	220	-	RAG
[Model number]		[Sounds]		[Layer]		[Voltage]		[Color]
STD L		WS-Warning		1-1Layer		12-DC12V		● R-Red
STD L F		WM-Melody		2-2Layers		24-DC24V		● A-Amber
		WA-Alarm		3-3Layers		110-AC110V		● G-Green
		WV-Customizable sound		4-4Layers		220-AC220V		● B-Blue
				5-5Layers				○ W-White