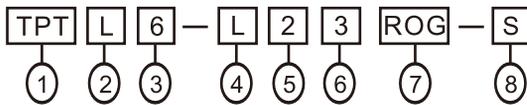


## FEATURES

- Tend tower light can be installed in any machine as a status indicator by showing the color change of light and audible alarm. Tower light can be customer-made to meet different needs.
- Internal spring suspension can avoid damage to the bulb due to machine's vibration.
- Flexible wiring design: Steady, flashing of alarm are achievable through wiring by end user.
- Both bulb base for Incandescent bulb & LED is BA15S. So it is easy to change bulb type.
- Audio alarm buzzes at 90DB/30cm.

## MODEL DESIGNATION



Item	Signal	Description
1.Mounting Method	TPT	Pole Mount
	TPW	Tray Mount
	TPF	Tented Type (Round Tray)
	TPFQ	Side Hitch Type
	TPA	Pole Stand Type
	TPS	Tented Type (Square Tray)
2.Functional	L	Continuous light
	F	Continuous or flashing light
	S	Continuous of flashing light with audible alarm
	B	Audible alarm light
3.Diameter	4	∅ 40mm (NO TPF, TPFQ)
	5	∅ 50mm
	6	∅ 60mm
	7	∅ 70mm
4.Bulb	Space	Incandescent
	L	LED
5.Voltage	1	110VAC
	2	220VAC
	7	24VAC/DC
	9	12VAC/DC
6.Section	1~5	1~5
7.Lens	R	Red
	O	Orange
	G	Green
	B	Blue
	W	White
8.Aluminum Tube Length	Space	Standard Length, TPT:288mm, TPF:0mm
	S	Special Length, TPT:138mm Special Length, TPF:193mm

• Standard wire length 0.5 meters.

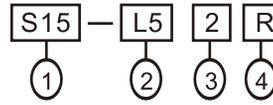
## Rated current for Bulbs and Buzzers (Reference Only)

Incandescent	
S15-I49(12VAC/DC)	0.5A
S15-I47(24VAC/DC)	0.25A
S15-I41(110VAC)	0.05A
S15-I42(220VAC)	0.03A
S15-I59(12VAC/DC)	0.7A
S15-I57(24VAC/DC)	0.35A
S15-I51(110VAC)	0.06A
S15-I52(220VAC)	0.03A
S15-I69(12VAC/DC)	0.8A
S15-I67(24VAC/DC)	0.4A
S15-I61(110VAC)	0.08A
S15-I62(220VAC)	0.04A

LED	
S15-L59(12VDC)	0.08A
S15-L59(12VAC)	0.15A
S15-L57(24VDC)	0.05A
S15-L57(24VAC)	0.07A
S15-L51(110VAC)	0.02A
S15-L52(220VAC)	0.02A

Buzzer	
12V AC/DC	0.08A
24V AC/DC	0.02A
110V AC	0.01A
220V AC	0.01A

## BULB MODEL DESIGNATION

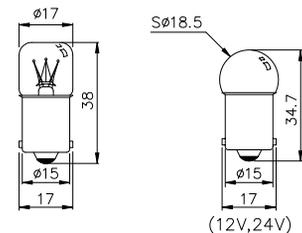


Item	Signal	Description
1.Base Type	S15	BA15S Bulb
2.Lens Diameter	14	∅ 40mm, 5W Incandescent
	15	∅ 50mm, 8W Incandescent
	16	∅ 60mm/∅70mm, 10W Incandescent
	L5	∅ 50mm/∅60mm/∅70mm, LED
3.Voltage	1	110VAC
	2	220VAC
	7	24VAC/DC
	9	12VAC/DC
4.Color	Space	Incandescent
	R	Red
	O	Orange
	G	Green
	B	Blue
	W	White

## LAMP DIMENSIONS

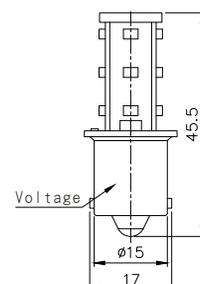
### Incandescent

S15-I□□



### LED

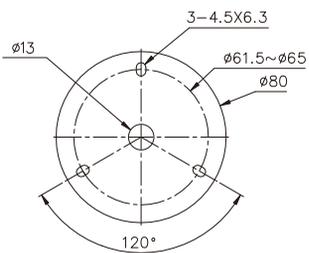
S15-L5□□



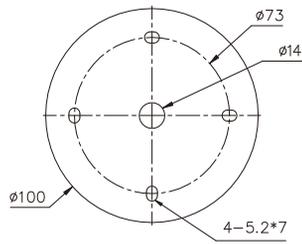
## ■ MOUNTING HOLES

### ● TRAY MOUNTING BRACKET

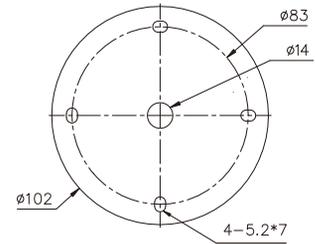
TPW □4/TPW □5



TPW □6



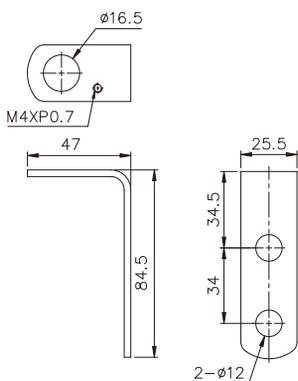
TPW □7



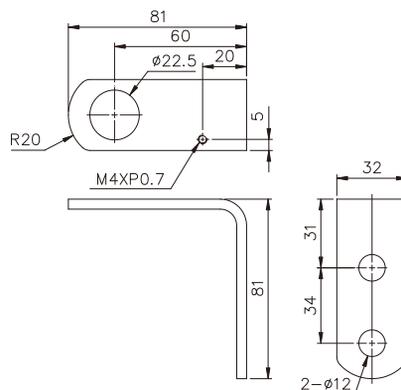
## ■ MOUNTING HOLES

### ● POLE MOUNTING BRACKET

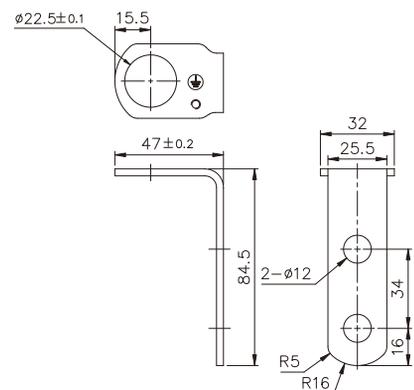
Used TPTL4



Used TPT □6/TPT □7



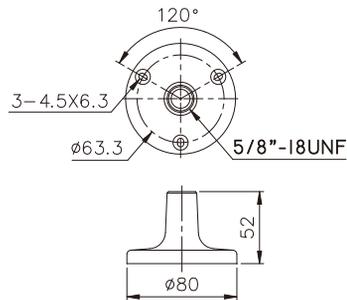
Used TPTF4/TPTS4/TPTB4  
TPT □5



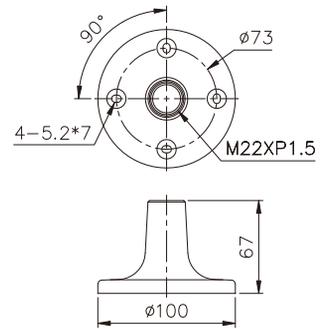
## ■ MOUNTING HOLES

- POLE MOUNTING BRACKET(OPTIONAL)

TPTL-S  
Used TP SL4



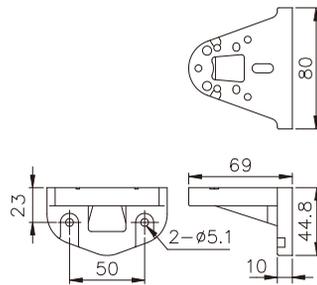
TPTL6-S  
Used TPSS4/TPSF4/TPSB4  
TPS□5/TPS□6/TPS□7



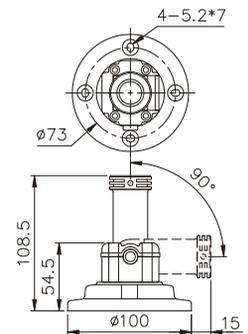
## ■ MOUNTING HOLES

- SIDE MOUNTING BRACKET(OPTIONAL)

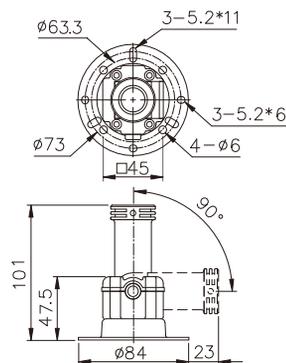
TPTL6-A  
Used TPA□4  
TPA□5/TPA□6/TPA□7



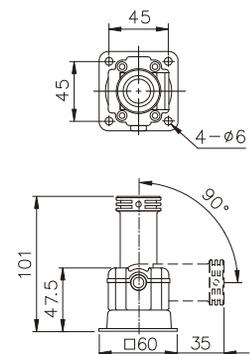
TPTL6-F  
Used TPFS4/TPFF4/TPFB4  
TPF□5/TPF□6/TPF□7



TPTL5-F  
Used TPFS4/TPFF4/TPFB4  
TPF□5/TPF□6/TPF□7



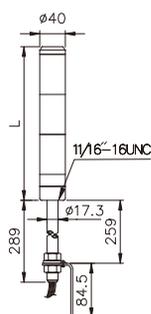
TPTL5-FS  
Used TPFS4/TPFF4/TPFB4  
TPF□5/TPF□6/TPF□7





### DIMENSIONS

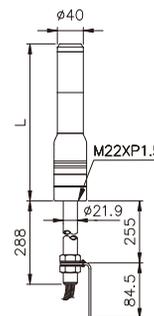
#### TPTL4



• TPTL4:

SECTION	L
1	114
2	176
3	238
4	300
5	362

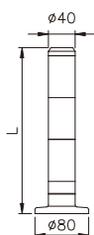
#### TPTF4/TPTS4/TPTB4



• TPTF4/TPTS4  
TPTB4:

SECTION	L
1	177
2	239
3	301
4	363
5	425

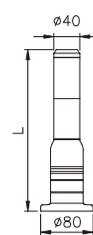
#### TPWL4



• TPWL4:

SECTION	L
1	122
2	184
3	246
4	308
5	370

#### TPWF4/TPWS4/TPWB4

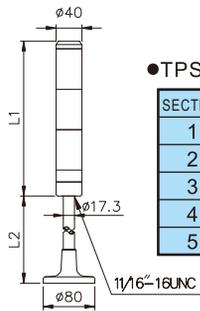


• TPWF4/TPWS4  
TPWB4:

SECTION	L
1	183
2	245
3	307
4	369
5	431

## DIMENSIONS

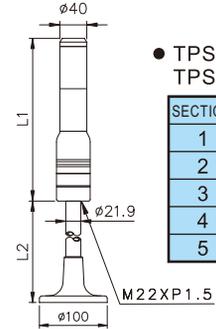
TPSL4



●TPSL4:

SECTION	L1	L2
1	114	Short 133
2	176	Long 298
3	238	
4	300	
5	362	

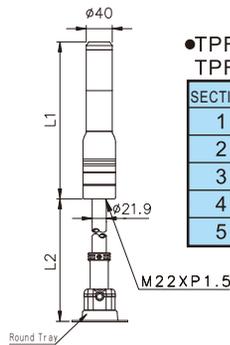
TPSF4/TPSS4/TPSB4



●TPSF4/TPSS4  
TPSB4:

SECTION	L1	L2
1	177	Short 161
2	239	Long 322
3	301	
4	363	
5	425	

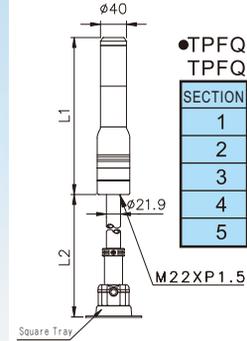
TPFF4/TPFS4/TPFB4



●TPFF4/TPFS4  
TPFB4:

SECTION	L1	L2
1	177	Short 101
2	239	Long 301
3	301	
4	363	
5	425	

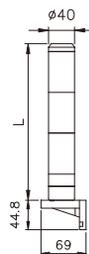
TPFQF4/TPFQS4/TPFQB4



●TPFQF4/TPFQS4  
TPFQB4:

SECTION	L1	L2
1	177	Short 101
2	239	Long 301
3	301	
4	363	
5	425	

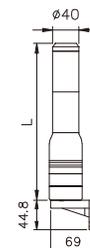
TPAL4



●TPAL4:

SECTION	L
1	114
2	176
3	238
4	300
5	362

TPAF4/TPAS4/TPAB4

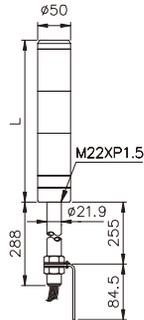


●TPAF4/TPAS4  
TPAB4:

SECTION	L
1	177
2	239
3	301
4	363
5	425

## DIMENSIONS

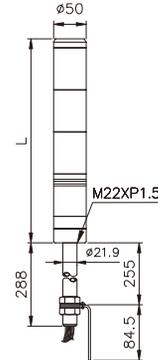
### TPTL5



• TPTL5:

SECTION	L
1	118
2	182
3	246
4	310
5	374

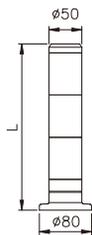
### TPTF5/TPTS5/TPTB5



• TPTF5/TPTS5  
TPTB5:

SECTION	L
1	182
2	246
3	310
4	374
5	438

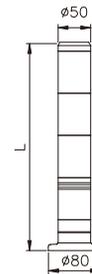
### TPWL5



• TPWL5:

SECTION	L
1	124
2	188
3	252
4	316
5	380

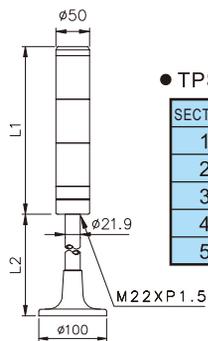
### TPWF5/TPWS5/TPWB5



• TPWF5/TPWS5  
TPWB5:

SECTION	L
1	188
2	252
3	316
4	380
5	444

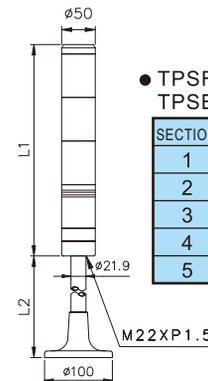
### TPSL5



• TPSL5:

SECTION	L1	L2
1	118	Short 161 Long 322
2	182	
3	246	
4	310	
5	374	

### TPSF5/TPSS5/TPSB5

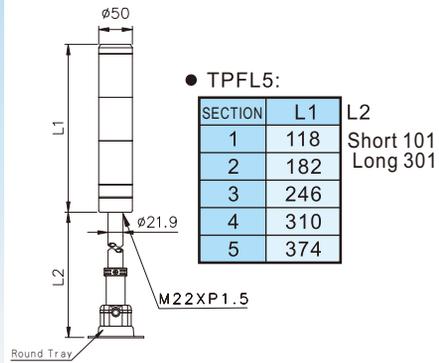


• TPSF5/TPSS5  
TPSB5:

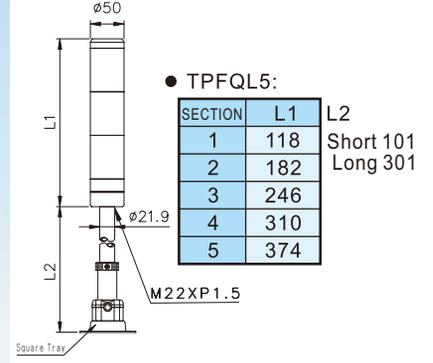
SECTION	L1	L2
1	182	Short 161 Long 322
2	246	
3	310	
4	374	
5	438	

## DIMENSIONS

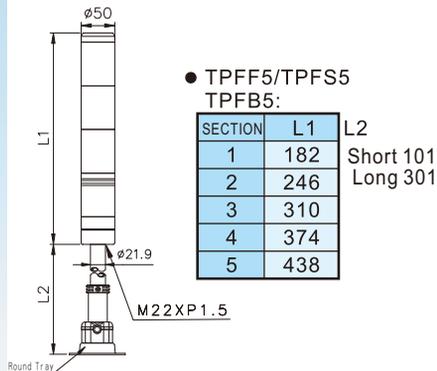
TPFL5



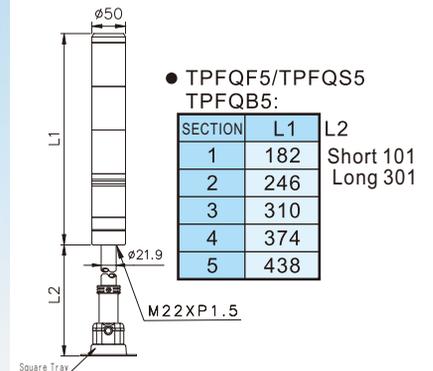
TPFQL5



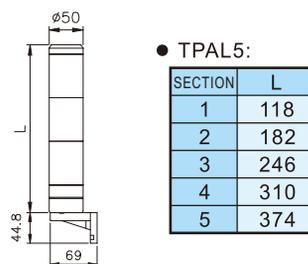
TPFF5/TPFS5/TPFB5



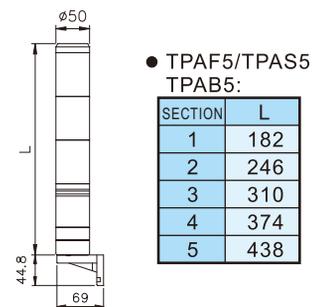
TPFQF5/TPFQS5/TPFQB5



TPAL5

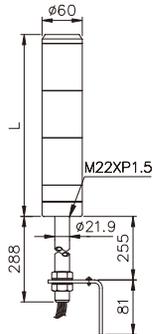


TPAF5/TPAS5/TPAB5



### DIMENSIONS

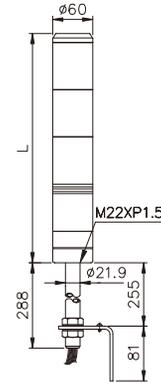
TPTL6



• TPTL6:

SECTION	L
1	130
2	200
3	270
4	340
5	410

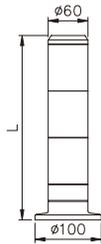
TPTF6/TPTS6/TPTB6



• TPTF6/TPTS6  
TPTB6:

SECTION	L
1	200
2	270
3	340
4	410
5	480

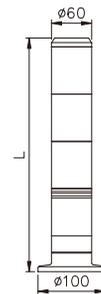
TPWL6



• TPWL6:

SECTION	L
1	136
2	206
3	276
4	346
5	416

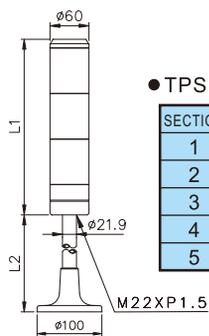
TPWF6/TPWS6/TPWB6



• TPWF6/TPWS6  
TPWB6:

SECTION	L
1	206
2	276
3	346
4	416
5	486

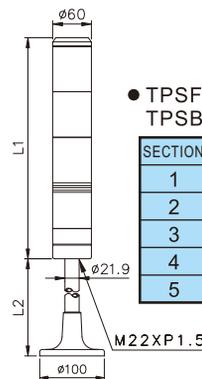
TPSL6



• TPSL6:

SECTION	L1	L2
1	130	Short 161 Long 322
2	200	
3	270	
4	340	
5	410	

TPSF6/TPSS6/TPSB6

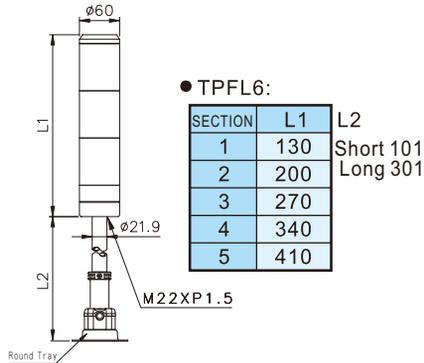


• TPSF6/TPSS6  
TPSB6:

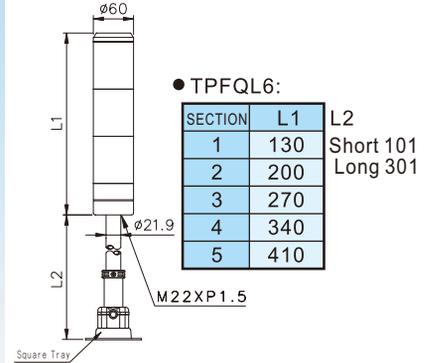
SECTION	L1	L2
1	200	Short 161 Long 322
2	270	
3	340	
4	410	
5	480	

## DIMENSIONS

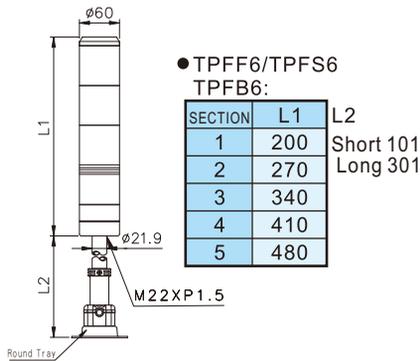
TPFL6



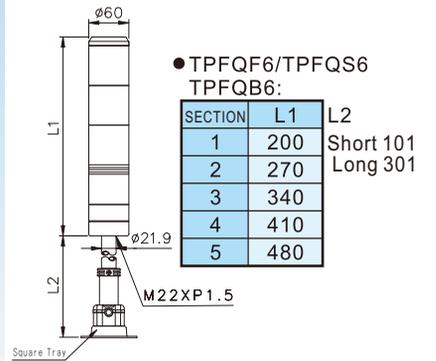
TPFQL6



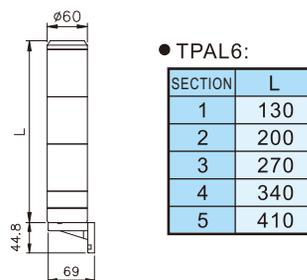
TPFF6/TPFS6/TPFB6



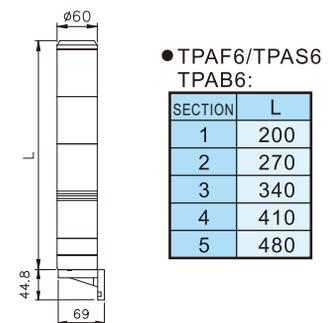
TPFQF6/TPFQS6/TPFQB6



TPAL6

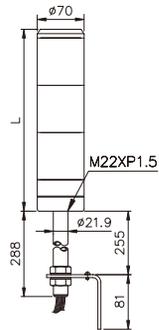


TPAF6/TPAS6/TPAB6



### DIMENSIONS

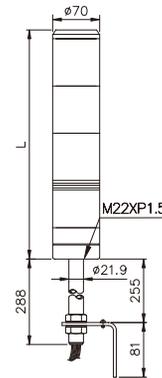
TPTL7



• TPTL7:

SECTION	L
1	130
2	200
3	270
4	340
5	410

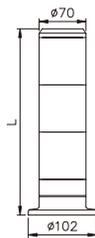
TPTF7/TPTS7/TPTB7



• TPTF7/TPTS7  
TPTB7:

SECTION	L
1	200
2	270
3	340
4	410
5	480

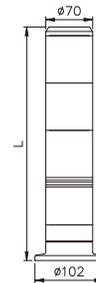
TPWL7



• TPWL7:

SECTION	L
1	136
2	206
3	276
4	346
5	416

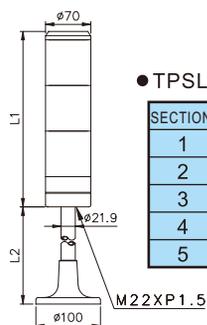
TPWF7/TPWS7/TPWB7



• TPWF7/TPWS7  
TPWB7:

SECTION	L
1	206
2	276
3	346
4	416
5	486

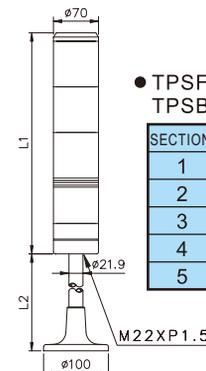
TPSL7



• TPSL7:

SECTION	L1	L2
1	130	Short 161
2	200	Long 322
3	270	
4	340	
5	410	

TPSF7/TPSS7/TPSB

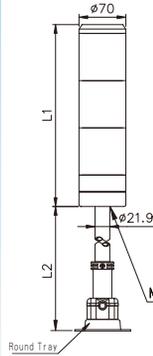


• TPSF7/TPSS7  
TPSB7:

SECTION	L1	L2
1	200	Short 161
2	270	Long 322
3	340	
4	410	
5	480	

## DIMENSIONS

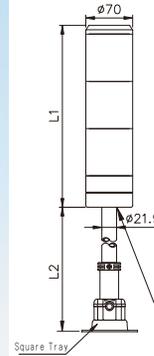
TPFL7



● TPFL7:

SECTION	L1	L2
1	130	Short 101 Long 301
2	200	
3	270	
4	340	
5	410	

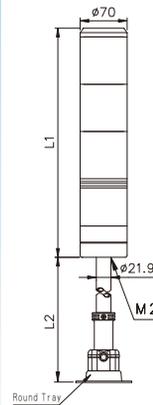
TPFQL7



● TPFQL7:

SECTION	L1	L2
1	130	Short 101 Long 301
2	200	
3	270	
4	340	
5	410	

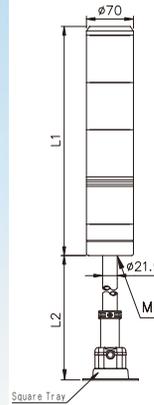
TPFF7/TPFS7/TPFB7



● TPFF7/TPFS7  
TPFB7:

SECTION	L1	L2
1	200	Short 101 Long 301
2	270	
3	340	
4	410	
5	480	

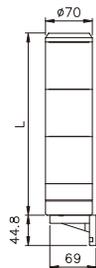
TPFQF7/TPFQS7/TPFQB7



● TPFQF7/TPFQS7  
TPFQB7:

SECTION	L1	L2
1	200	Short 101 Long 301
2	270	
3	340	
4	410	
5	480	

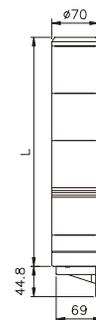
TPAL7



● TPAL7:

SECTION	L
1	130
2	200
3	270
4	340
5	410

TPAF7/TPAS7/TPAB7



● TPAF7/TPAS7  
TPAB7:

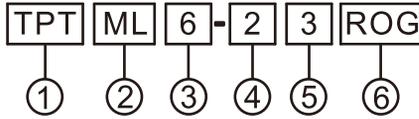
SECTION	L
1	200
2	270
3	340
4	410
5	480

# tend SINGLE LAYER MULTI-COLOR WARNING LIGHT TPTM/R

## FEATURES

- The main features of this series of warning lights are single layer with multi-color with four colors (Red, Orange, Green and Blue) to choose from and adjustable height
- Rotating speed of 180 rev/min; Flashing speed of 60 times/min
- (When audible sound is intermittent,) The Frequency of the audible sound is 180 times/min if connected to the Rotating Cable; the Frequency of the audible sound is 60 times/min with volume of 80dB/1m min if connected to the Flashing Light.
- Available in both UL and non-UL type.

## MODEL DESIGNATIONS

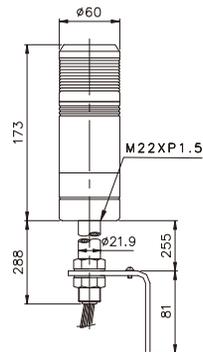


Item	Code	Description
1.Mounting Method	TPT	Pole Mount
	TPW	Tray Mount
	TPF	Foldable Type (Round Tray)
	TPFQ	Foldable Type (Square Tray)
	TPA	Side Hitch Type
	TPS	Pole and Tray Mount
2.Functions	ML	Continuous Light
	MF	Continuous Flashing Light
	MB	Audible Alarm Light
	MS	Continuous Flashing Light with Audible Sound

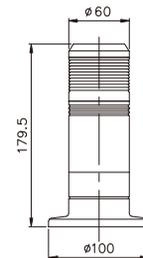
Item	Code	Description
3.Lens Diameter	6	Ø60mm
4.Voltage	1	110VAC
	2	220VAC
	7	24VAC/DC
	9	12VAC/DC
5.No of Lamp Color	2~5	2~5
6.Color	R	Red
	O	Orange
	G	Green
	B	Blue
	W	White

## APPEARANCE AND DIMENSIONS

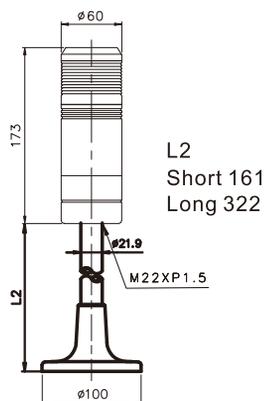
### TPTM/TPTR



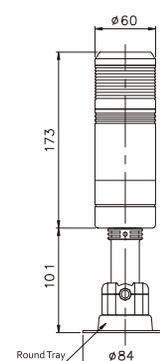
### TPWM/TPWR



### TPSM/TPSR

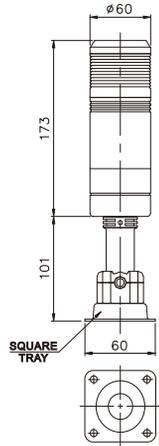


### TPFM/TPFR

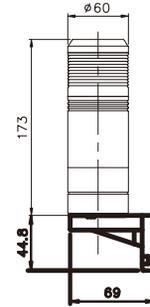


## APPEARANCE AND DIMENSIONS

### TPFQM/TPFQR

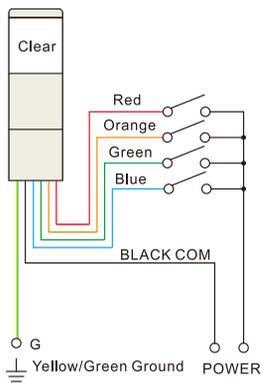


### TPAM/TPAR

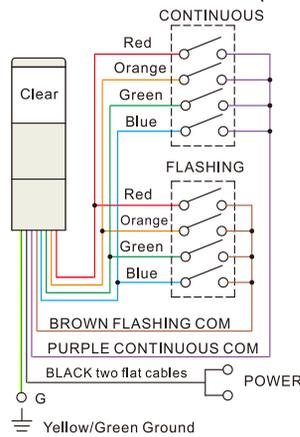


## WIRING DIAGRAM (DC Voltage, Polarity labeled on power cables)

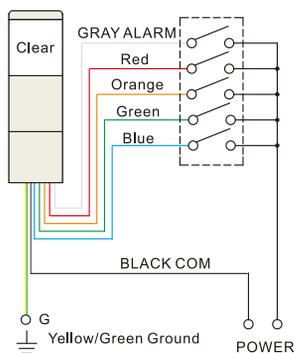
### CONTINUOUS LIGHT (ML)



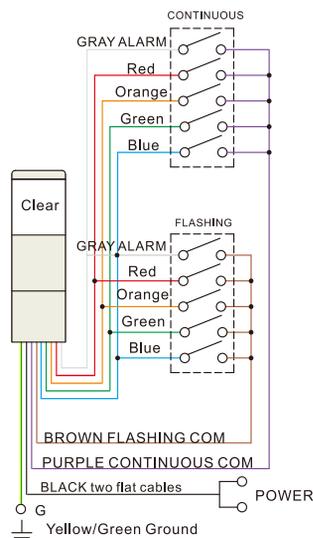
### CONTINUOUS OF FLASHING LIGHT (MF)



### Audible Alarm Light (MB)



### Continuous of Flashing Light with Audible Alarm (MS)



Note: The Red, Orange, Green, Blue color cables and the Gray Alarm cable can only be connected to one function cable.

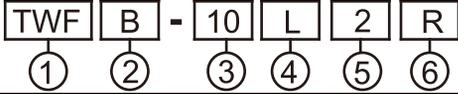
# tend REVOLVING/FLASHING WARNING LIGHT

TWR/F/K

## FEATURES

- Revolving or flashing types colors: RED, ORANGE, GREEN, BLUE and PINK.
- Revolving speed: 160RPM flashing frequency: 150 times per minute.
- Intermittent buzz, synchronizing frequency with flash approx 150 times per minute volume: 80 db or more.

## MODEL DESIGNATION



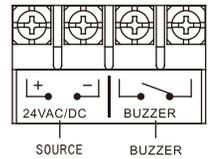
Designation	Signal	Description
1.Type	TWR TWK TWS TWF TWL TRM	Rotary(Transparent Lens) Rotary(Diamond Lens) Rotary(Straight Lens) Flashing(LED) Rotary(LED) Rotary
2.Buzzer	Space B W S	Screw Terminal(Without Buzzer) Screw Terminal(With Buzzer) Lead(Without Buzzer) Lead(With Buzzer)
3.Size	08 10 12 16 18	Ø80mm Ø100mm Ø120mm Ø160mm Ø180mm

Designation	Signal	Description
4.Bulb	Space L	Incandescent Bulb LED
5.Voltage	1 2 7 9	110VAC 220VAC 24VAC/DC 12VAC/DC
6.Color of lens	R O G BL P	Red Orange Green Blue Pink

- Note: 1. TWR/TWK/TWS: Incandescent bulb only.  
 2. TWF16/TWF18/TWL: LED only.  
 3. LED colors are same as lens.  
 4. TWK Ø100mm only.  
 5. TRM: Incandescent bulb only. (No buzzer and Ø100mm only.)  
 6. TRM type:  $\boxed{\text{TRM}} - \boxed{220} \boxed{\text{R}}$   
(SOURCE) (COLOR)

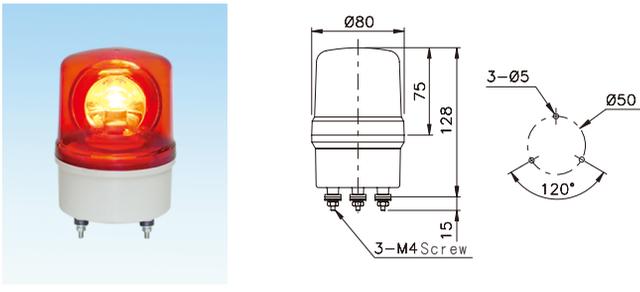
## RATING CURRENT(for reference only) WIRING DIAGRAM

Type	Current	Consumed power
TWFW-10L1R	34mA	3.8W
TWFW-10L2R	15mA	3.3W
TWLW-10L1R	17mA	1.9W
TWLW-10L2O	10mA	2.2W
TWFW-08L7R	AC73mA/DC30mA	AC1.8W/DC0.8W
TWLW-08L7R	AC86mA/DC77mA	AC2.1W/DC1.9W

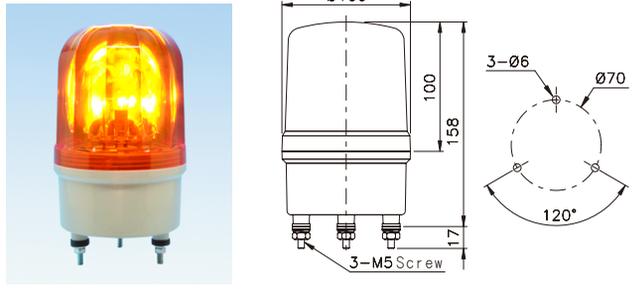


## DIMENSIONS AND MOUNTING HOLE

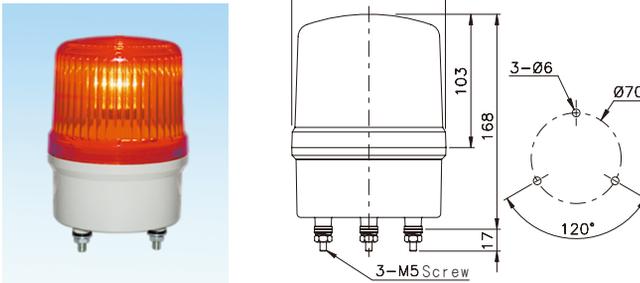
TWRW-08



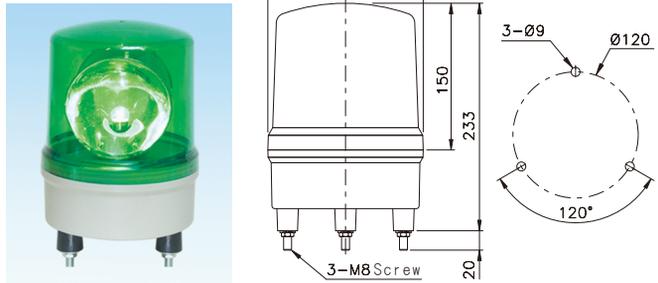
TWRW-10



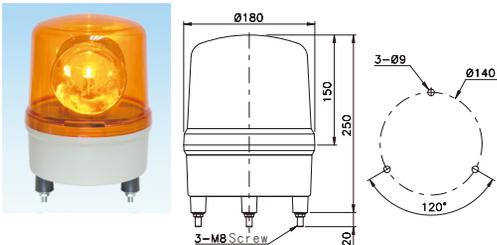
TWRW-12



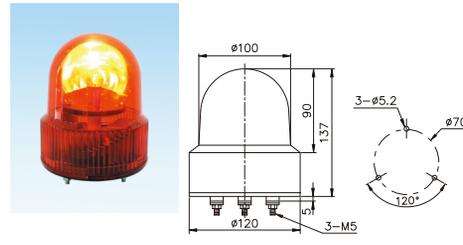
TWRW-16



TWRW-18



TRM



TWR10H

