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SPECIFICATIONS

Product Name: Signal Tower

Model: LR□-□M2□□□W

SPECIFICATIONS

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1.General Specifications

Model		LR□-□M2□□□W			
Rated Voltage		100-240V AC (50/60Hz)			
Operating Voltage Range		90-250V AC (50/60Hz)			
Signal Wire Current (Per Unit)	Typ.	LED Unit : 40mA			
		Buzzer Unit : 40mA (※1)			
	Max.	LED Unit : 45mA			
		Buzzer Unit : 250mA (※1)			
Inrush Current	Power Supply Wire		at 25℃ : 25A/ Less than 2ms (Cold-start)		
	Signal Wire		at 50℃ : 50A/ Less than 2ms (Cold-start)		
Rated Power Consumption (Per Unit)	Typ.	LED Unit : 1.5W			
		Buzzer Unit : 1.5W (※1)			
	Max.	LED Unit : 1.8W			
		Buzzer Unit : 1.8W (※1)			
Standby Power Consumption		LED Unit : none			
		Buzzer Unit : 0.2W			
		Body Unit : 0.2W			
Operating Ambient Temperature		-20℃ ~ +50℃			
Operating Ambient Humidity		Less than 90% RH (No Condensation)			
Storage Ambient Temperature		-30℃ ~ +60℃			
Storage Ambient Humidity		Less than 90% RH (No Condensation)			
Mounting Location		Indoor Only			
Mounting Direction		Upright			
Protection Rating		IP65(IEC 60529)(※2) / NEMA TYPE 4X,13			
Environmental Condition		Upright			
Insulation Resistance		More than 1MΩ at 500VDC Between live part and non-current carrying metallic part			
Withstand Voltage		1500VAC applied for 1min Between live part and non-current carrying metallic part without breaking insulation			
Flashing Rate		60±2 Flashes Per Minute			
Buzzer Sound /Typical Frequency	No.1	Rapid intermittent beep / 3378Hz		No.2	Continuous beep sound / 3378Hz
	No.3	Rapid Hi-Lo / 2016Hz&3012Hz		No.4	Sweep sound / 1000Hz-4032Hz
	Setting	Depending on DIP Switch Settings Refer to the 6.Buzzer Pattern Set-up			
Outer Dimensions		Refer to the 3.Outer Dimensions			
Conformity Standards		UL 508, CSA-C22.2 No. 14			
		EMC Directive (EN 61000-6-4, EN 61000-6-2)			
		RoHS Directive (EN IEC 63000)			
		FCC Part 15 Subpart B Class A			
		KC (KN 61000-6-4, KN 61000-6-2)(※3)			
Remarks		Low Voltage Directive(IEC/EN60947-5-1,EN62471)(※3)			
		(※1)Environmental Condition : Buzzer sound No.2 Continuous beep sound			
		(※2)LJ Type IP54			
		(※3)Except LJ Type			
		Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur			
		UL Recognized Component (File No.E215660)			
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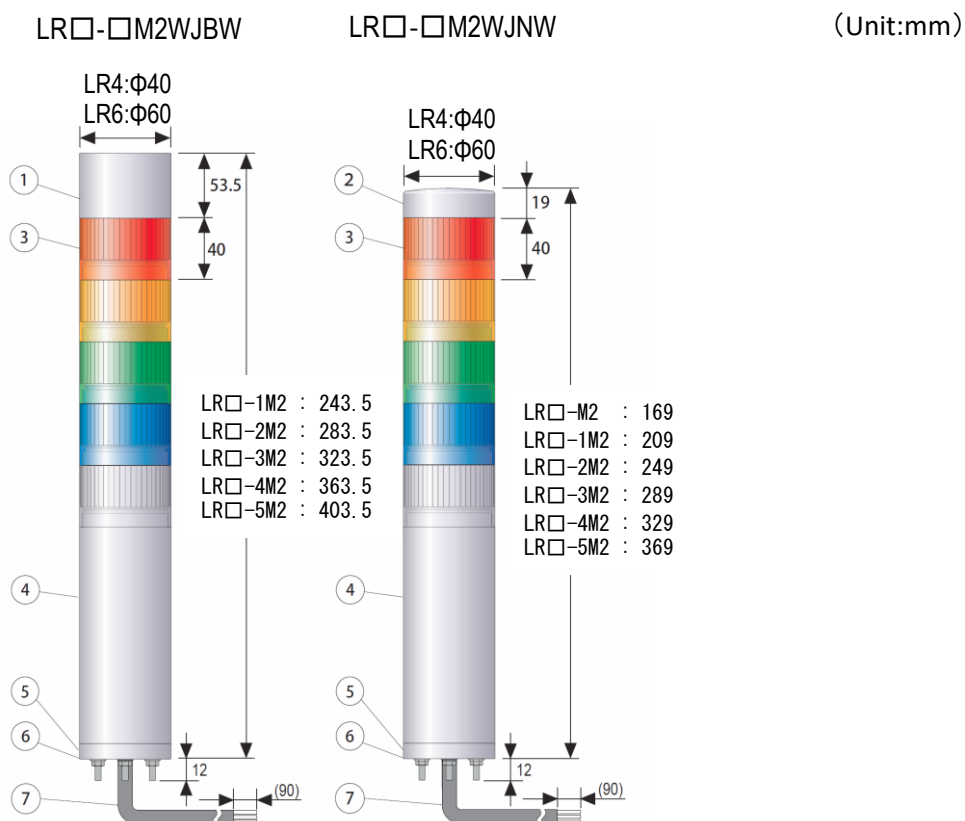
PATLITE Corporation

LR4	LR4-_M2WJBW , LR4-_M2WJNW , LR4-M2WJNW , LR4-_M2LJBW , LR4-_M2LJNW , LR4-M2LJNW , LR4-_M2PJBW , LR4-_M2PJNW , LR4-M2PJNW
LR6	LR6-_M2WJBW , LR6-_M2WJNW , LR6-M2WJNW , LR6-_M2LJBW , LR6-_M2LJNW , LR6-M2LJNW , LR6-_M2PJBW , LR6-_M2PJNW , LR6-M2PJNW

3.Outer Dimensions

3.1 LR□-□M2WJ□W

■ **WJ** Direct Mount with Cable



- Maximum Board Thickness : 7
- Cable : UL2464 (Φ7.5)
- Signal Wire : AWG24
- Power Supply Wire : AWG18
- Cable Length : (1300)

Number	Name	Material	UL Flammability
1	Buzzer Case	PC	V-2
2	Head Cover	PC	V-2
3	Globe	PC	V-2
4	Body	PC	V-1
5	Direct Mount Bracket	PC	V-1
6	Waterproof Packing	Silicone Rubber	-
7	Cable	PVC	VW-1

Accessory

LR4 - WJ

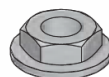
Hexagon Nut with Flange (M3)



3pcs.

LR6 - WJ

Hexagon Nut with Flange (M4)



3pcs.

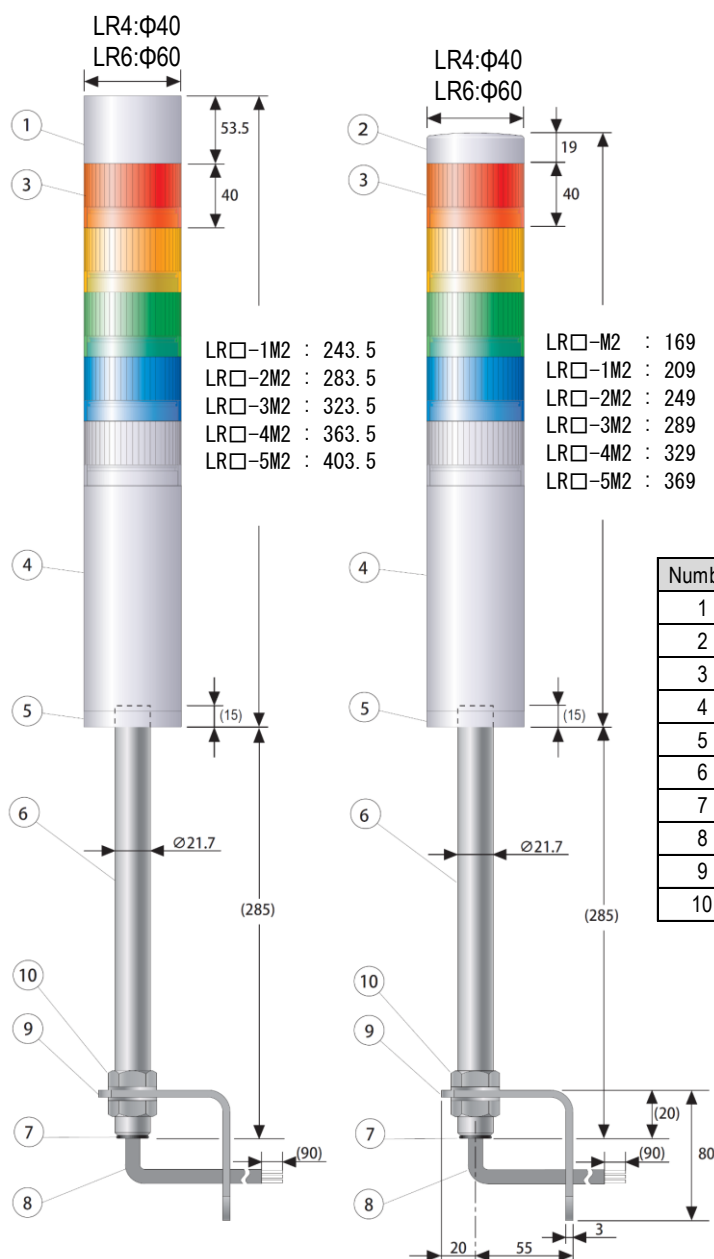
3.2 LR□-□M2LJ□W

■ **LJ** L-bracket and Pole Mount with Cable

LR□-□M2LJBW

LR□-□M2LJNW

(Unit:mm)



• Cable : UL2464 (Φ7.5)
Signal Wire : AWG24
Power Supply Wire : AWG18
Cable Length : (1000)

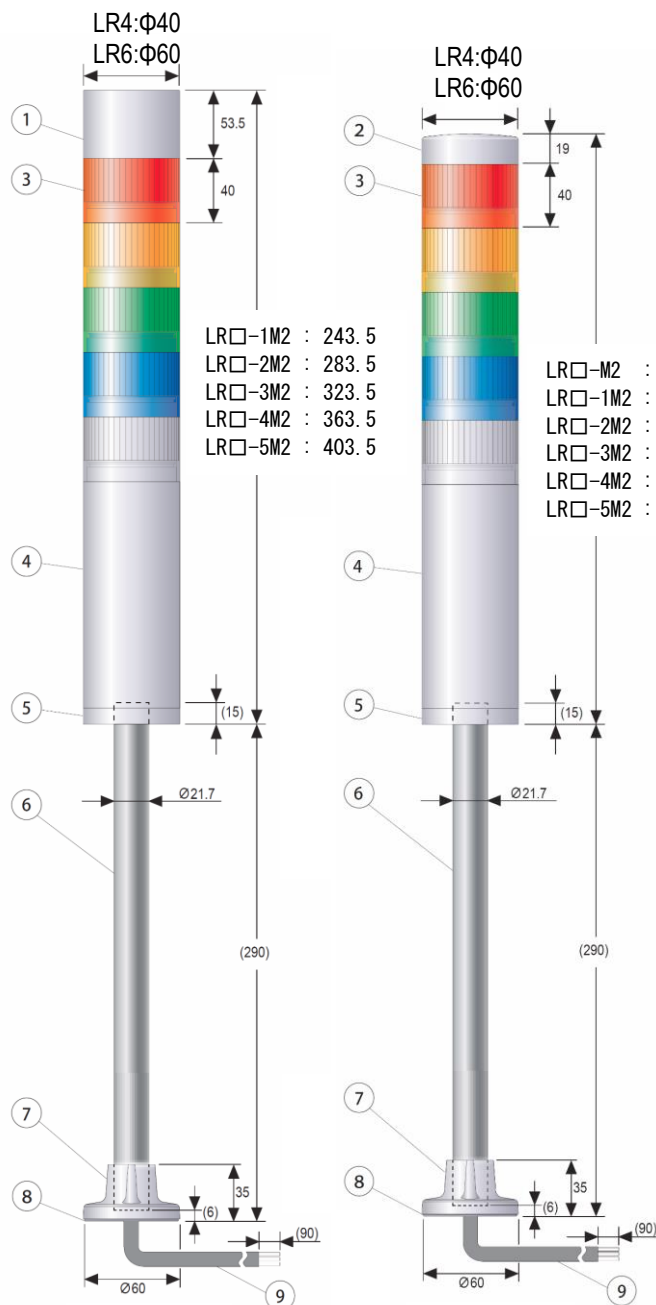
3.2 LR□-□M2PJ□W

■ **PJ** Circular Bracket and Pole Mount with Cable

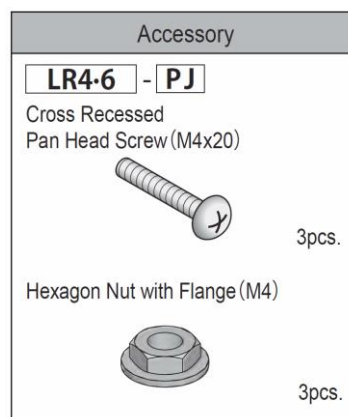
LR□-□M2PJBW

LR□-□M2PJNW

(Unit:mm)

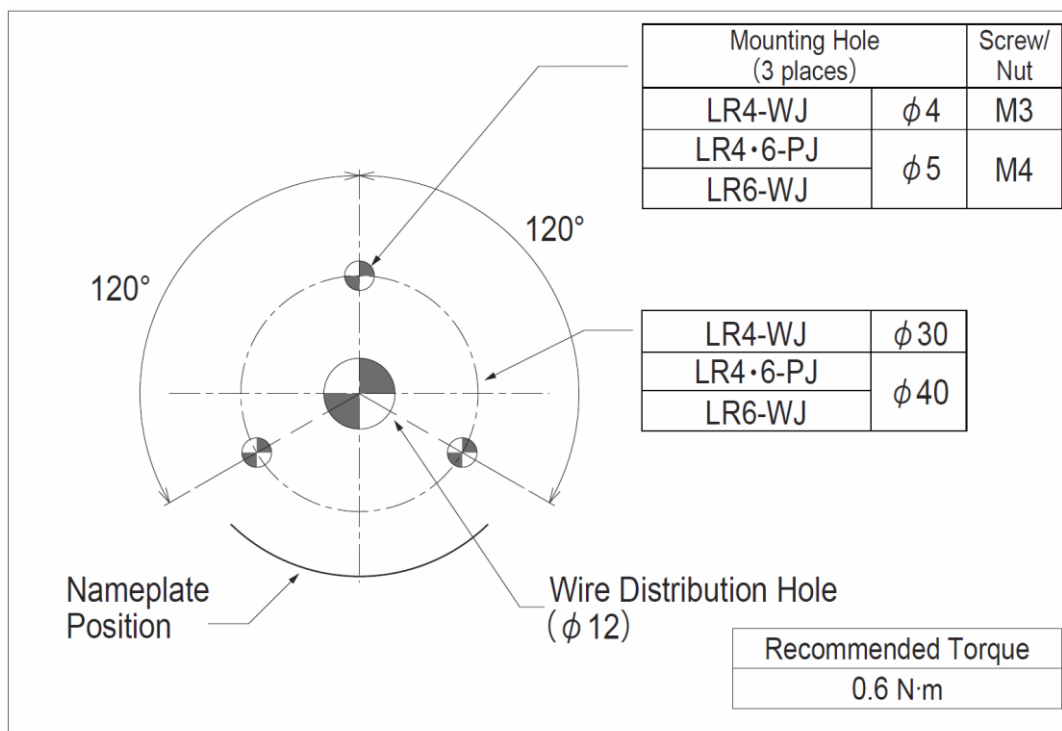
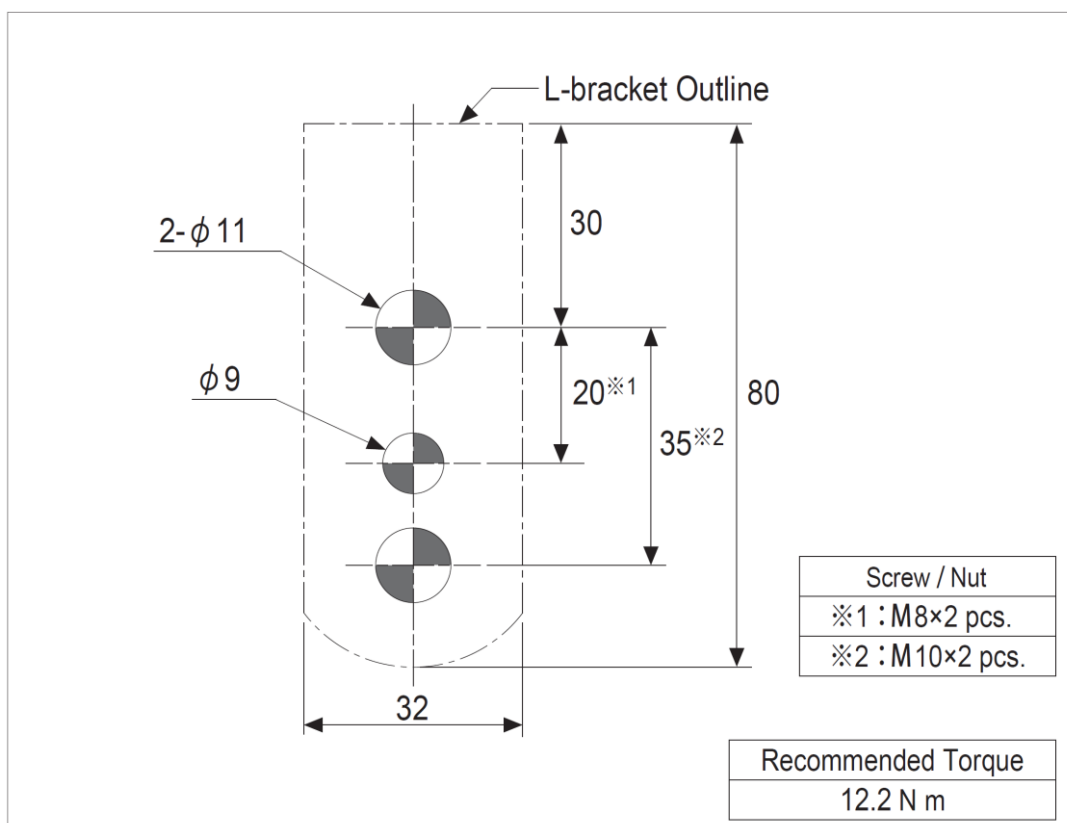


Number	Name	Material	UL Flammability
1	Buzzer Case	PC	V-2
2	Head Cover	PC	V-2
3	Globe	PC	V-2
4	Body	PC	V-1
5	Pole Bracket	PC	V-1
6	Pole	AL	-
7	Circular Bracket	PC	5VA
8	Waterproof Packing	Silicone Rubber	-
9	Cable	PVC	WV-1



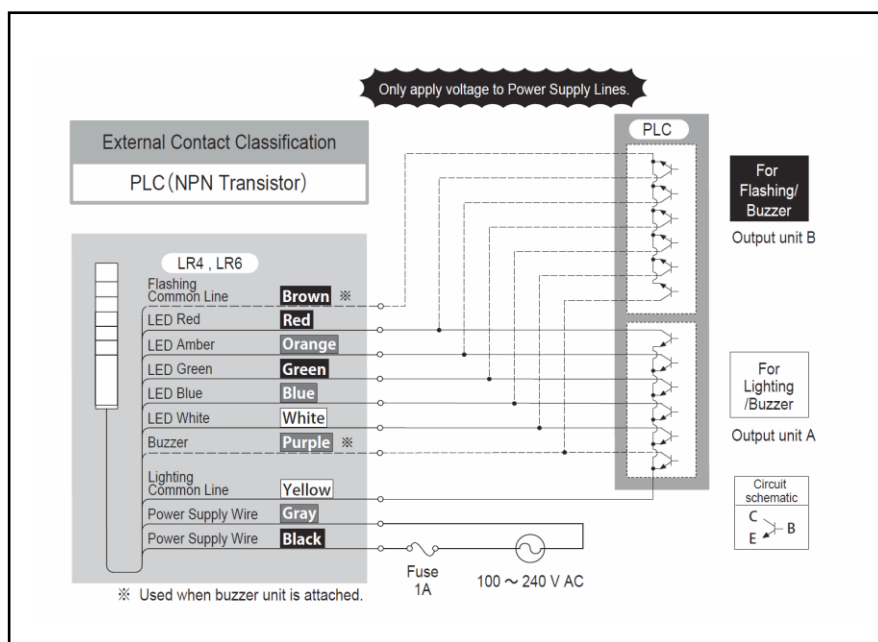
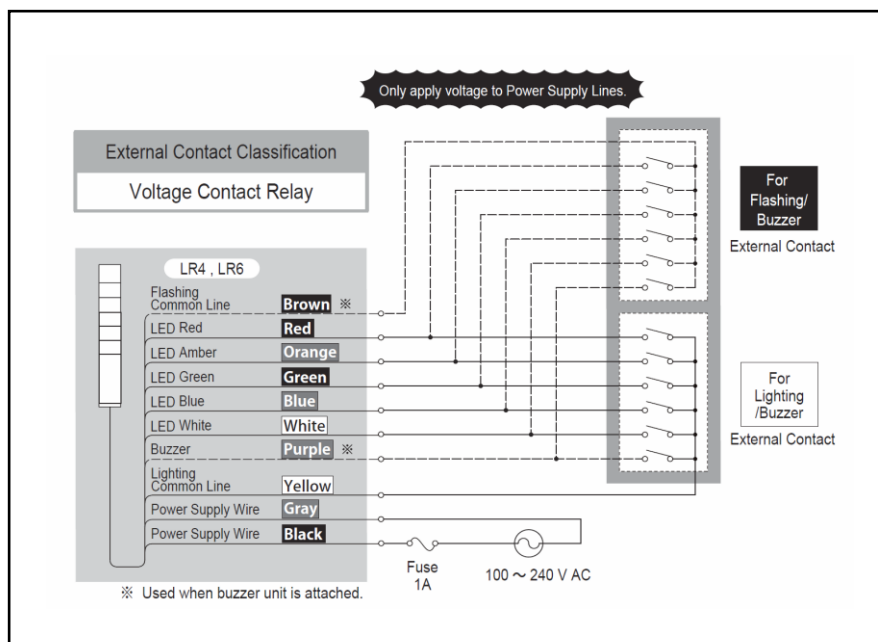
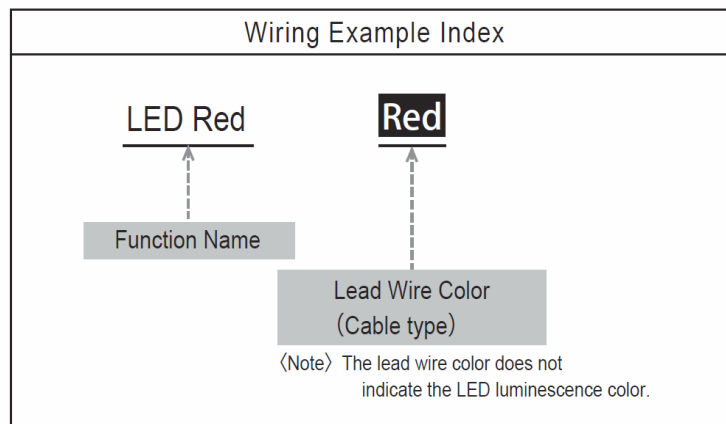
• Cable : UL2464 (Φ7.5)
Signal Wire : AWG24
Power Supply Wire : AWG18
Cable Length : (1000)

4.Mounting Dimensional Drawing

4.1 WJ - PJ Mounting Dimensal Drawing (Unit : mm)4.2 LJ Mounting Dimensal Drawing (Unit : mm)

5.Wiring Diagram

5.1 Wiring Example



5. 2 External Contact Capacity

Is : Current Capacity Vs : Withstand Voltage IL : Leakage Current

	Recommended contact capacity
LED Unit (1 Tier)	$I_s \geq 100\text{mA}$ $V_s \geq 35\text{V DC}$
Buzzer	$I_s \geq 300\text{mA}$ $V_s \geq 35\text{V DC}$
Power Supply	Inrush current or more contacts
Leakage Current	$I_L \leq 0.1\text{mA}$

■ Recommended Fuse

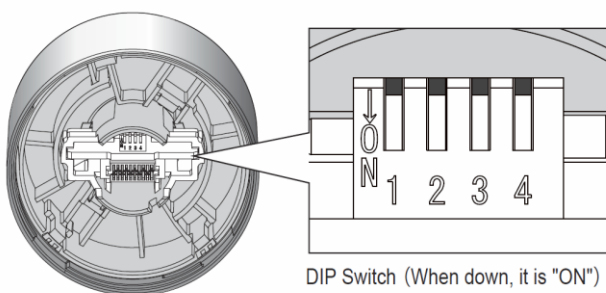
Fuse Rated Current	250 V / 1 A (5x20mm Fast-Acting Glass Body Cartridge Fuse)
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6.Buzzer Pattern Set-up

The **B** Flashing/Buzzer type includes a set up for four different patterns and sound reduction.

Set up the preferred pattern, using the DIP Switch after removing the buzzer unit.

Buzzer Unit Underside



DIP Switch (When down, it is "ON")
Switch is shown by ■.

■ Setup Table

Buzzer Sound	DIP Switch		Sound Pattern
	1	2	
No.1	OFF	OFF	Rapid Intermittent Beep
No.2	ON	OFF	Continuous Beep Sound
No.3	OFF	ON	Rapid Hi-Lo
No.4	ON	ON	Sweep Sound

DIP Switch		Volume
3		
OFF		Normal
ON		Sound Reduction

〈Note〉 Do not use DIP Switch 4.
It is set to "OFF" at all times after factory shipments.