Drawing No.	Rev.	Page
LR6-502W8-W18	Α	1/10

# **SPECIFICATIONS**

[1.General Specifica	tions]					
Product N	ame	Signal Tower				
Mode	I	LR6-□02W4N□         LR6-□02W5B□         LR6-□02W8□□         LR6-02W8N□				
Rated Vol	tage	24V DC				
Operating Volta	ige Range	Rated Voltage ±10%				
	Тур.	LED Unit : 40mA				
Rated Current	1 7 %	Buzzer Unit : 40mA (*1)				
Consumption	Max.	LED Unit : 45mA				
			Buzzer Unit	\ /		
Rated Power	Тур.		LED Ur Buzzer Un			
Consumption			LED Un	· /		
'	Max.		Buzzer Unit	:: 1.3W (*1)		
Operating Ambient	Temperature		-20°C to	) +50 °C		
Operating Ambie	,		Less than 90 % (			
Storage Ambient			-30°C to			
Storage Ambier	,			(No condensation)		
Mounting Lo				oor		
Mounting Di				ight		
Protection I	rating vironmental		IP65(IEC	/		
Insulation Re		More than 1MO at 50		ight	arrying metallic part	
		More than 1MΩ at 500V DC between live part and non-current carrying metallic part 500V AC applied for 1min between live part and non-current carrying metallic part				
Withstand V	/oltage	without breaking insulation				
		(LED Unit) + [Buzzer Unit]				
Mass (Toleran	ce ±10%)	LR6-□02W4N□ LR6-□02W5B□ LR6-□02W8□□	0.17kg + (0.06k	0.17kg + (0.06kg) × Tiers + [0.06kg]		
		LR6-02W8N□	0.17kg			
Compatible Unit (Optional)	LED Unit Model	LR6-E-R,Y,G	i,RZ,YZ,GZ	LR6-E-R,Y,G,B,C,F	RZ,YZ,GZ,BZ,MZ	
(Орионаі)	Buzzer Unit Model	-		LR6-BW		
Conformity St	andards	UL 508, CSA-C22.2 No. 14  RoHS Directive (EN IEC 63000)  EMC Directive (EN 61000-6-4, EN 61000-6-2)  FCC Part 15 SubpartB Class A  KC (KN 61000-6-4, KN 61000-6-2)				
Remari	ks	(*1)Environmental Condition: Buzzer sound No.2 Continuous beep sound  Due to the characteristics of the LED elements, a variation in difference of the color  brightness of every product may occur  UL Recognized Component (File No.E215660)  Conforms to the CE Requirements  Conforms to the UKCA Requirements			erence of the color	

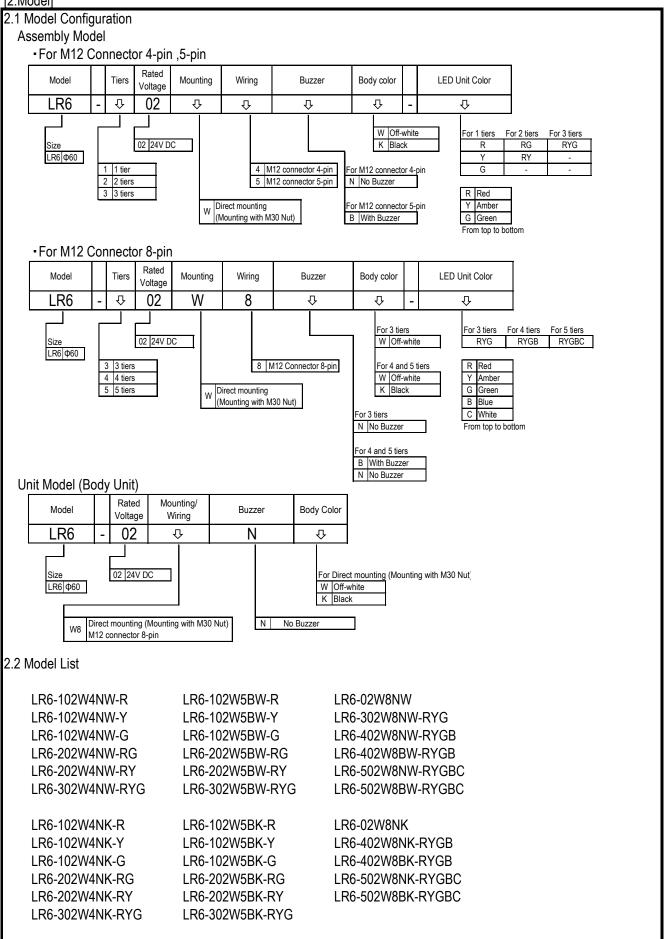
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Drawing No.	Rev.	Page
LR6-502W8-	-W18 A	2/10

	I NI 4		D :1: 1 :11
	No.1		Rapid intermittent beep / 3,378 Hz
Buzzer Sound	No.2 Continuous beep sound / 3,378 Hz		
/ Typical Frequency	No.3		Rapid Hi-Lo / 2,016 Hz & 3,012 Hz
ļ <u> </u>	No.4		Sweet sound / 1,000 Hz - 4,032 Hz
Setting	Depending on DIP Switch Settings		
			Refer to the 6. Buzzer Pattern Set-up
Cound Draggura Layel		~ 00 AD	Sound Reduction Approx10dB
Sound Pressure Level	1 9	p.88 dB	Depending on Dip Switch Settings
Consider and all Condition	D====	accord No. 4	Refer to the 6. Buzzer Pattern Set-up was measured from the total circumfrence of the Buzzer Unit at 1m
Environmental Condition	Duzzei	50unu 110.4	was measured from the total circumferice of the buzzer offication
			<b>I</b>

Drawing No.	Rev.	Page
LR6-502W8-W18	Α	3/10

#### [2.Model]

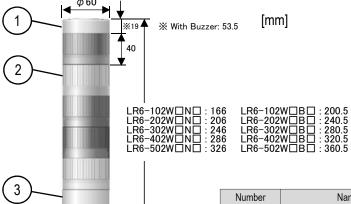


Drawing No.	Rev.	Page
LR6-502W8-W18	Α	4/10

## [3.Outer Dimensions]

# 3.1 Assembly Model

■ Direct Mount type: LR6-□02W4□□, LR6-□02W5□□, LR6-□02W8□□



Number	Name	Material	UL Flammability
1	Head Cover / Buzzer Case	PC	V-2
2	LED Unit	PC	V-2
3	Body	PC	V-2
4	Direct Mount Bracket	PC	V-2
5	Waterproof Packing (t =1)	Silicone Rubber	=
6	M30 Nut	PC	V-2

<sup>-</sup> Maximum Boad Thickness: 10mm

<u>M30 ×</u> 1.5 <u>1/2″NPT Intern</u>al

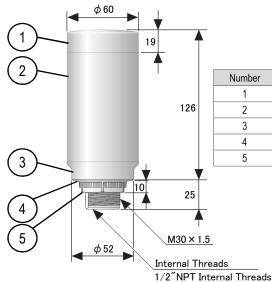
## 3.2 Unit Model(Body Unit)

4

5

## ■ LR6-02W8N□

[mm]



Number	Name	Material	UL Flammability
1	Head Cover	PC	V-2
2	Body	PC	V-2
3	Direct Mount Bracket	PC	V-2
4	Waterproof Packing (t =1)	Silicone Rubber	-
5	M30 Nut	PC	V-2

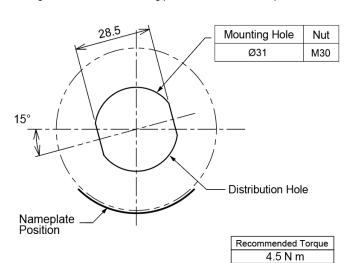
• Maximum Board Thickness: 10mm

Drawing No.	Rev.	Page
LR6-502W8-W18	Α	5/10

[mm]

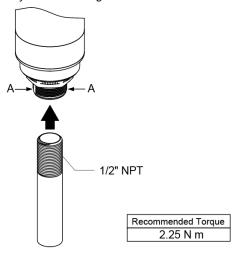
## [4.Mounting Dimensional Drawing]

■ Mounting Dimensional Drawing(M30×1.5 Installation)



■ Installation Figure(1/2 NPT Installation Figure)

While holding part 'A', install the 1/2" NPT. Failure to comply may result in damage.

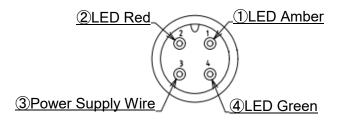


Drawing No.	Rev.	Page
LR6-502W8-W18	Α	6/10

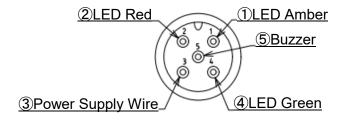
[5.Wiring Diagram]

5.1 M12 Connector Pin Layout

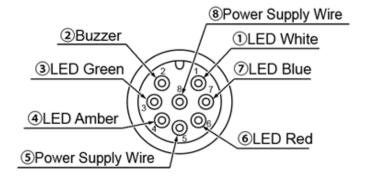
4-pin plug(male)



5-pin plug(male)



8-pin plug(male)



Drawing No.	Rev.	Page
LR6-502W8-W18	Α	7/10

[5.Wiring Diagram]

5.2 Attach the M12 connector with cable to the unit body.



M12 Connector Cable (Optional Part) > %Not included with this product.

# 5.3 Optional Parts

M12 Connector with Cable (Manufactured by the OMRON Corp.)

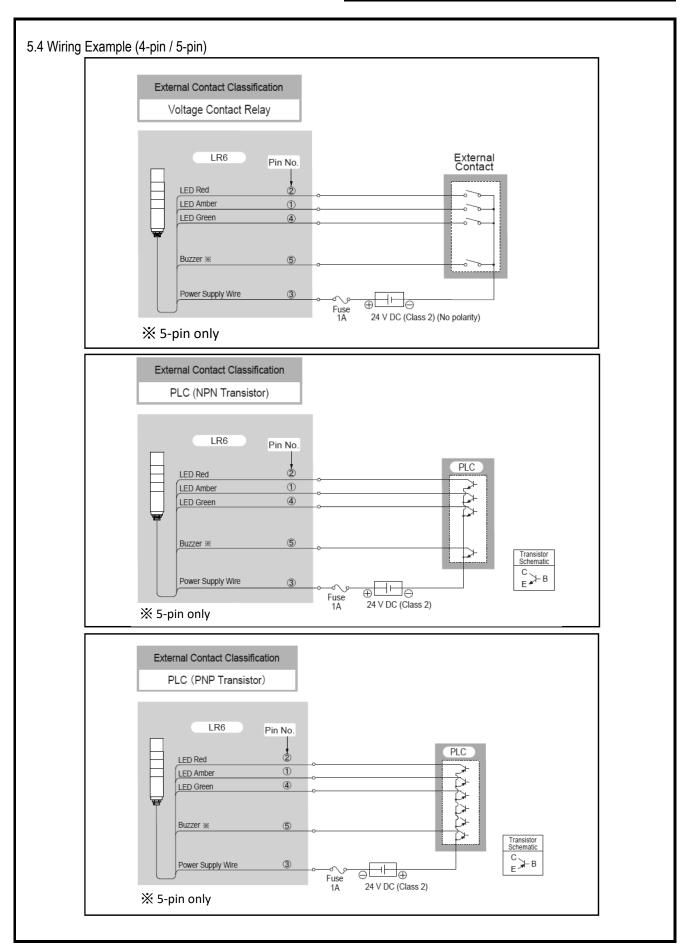


SZ-120-02 / -05 / -10 (Lengths: 2m, 5m, 10m)

※ 8-pin Connector only. Available for LR6-W8.

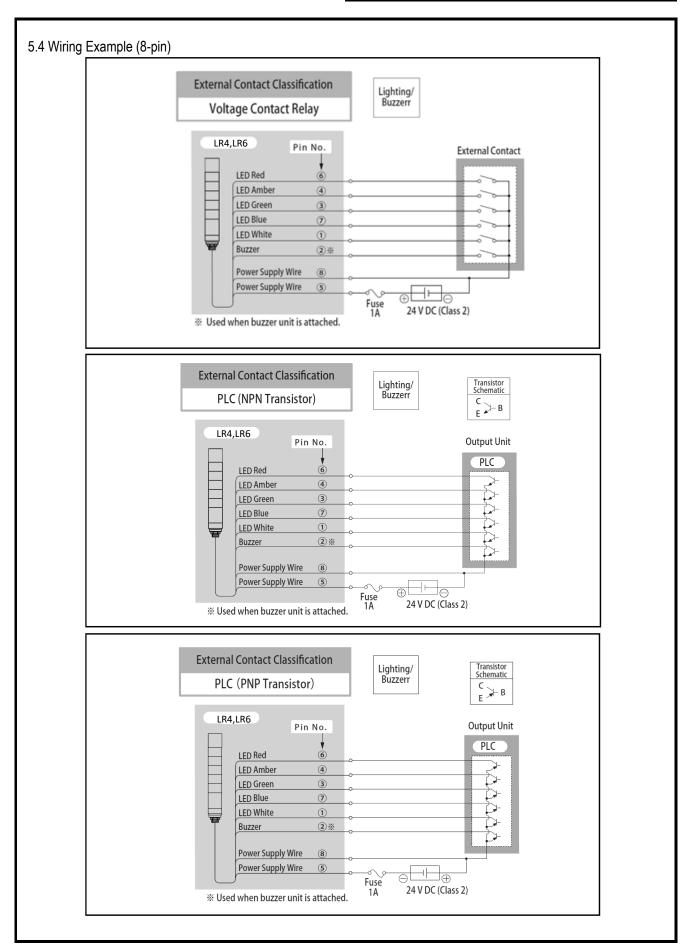
PIN No.	Wire Color
1	White
2	Brown
3	Green
4	Yellow
(5)	Gray
6	Pink
7	Blue
8	Red

Drawing No.	Rev.	Page
LR6-502W8-W18	Α	8/10



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Drawing No.	Rev.	Page
LR6-502W8-W18	Α	9/10



**PATLITE** Corporation

Drawing No.	Rev.	Page
LR6-502W8-W18	Α	10/10

## 5.5 External Contact Capacity

I<sub>S</sub>: Current Capacity V<sub>S</sub>: Withstand Voltage I<sub>L</sub>: Leakage Current

			<u> </u>			
Rated Load Voltage			24V DC			
LED Unit	Signal Wire Current (Max.) / Voltage	45mA / Power Supply Voltage			Itage	
(1 Tier)	Recommended Contact Capacity		Is≧100mA	Vs≧35V I	DC	
Buzzer	Signal Wire Current (Max.) / Voltage	250mA / Power Supply Voltage				
Duzzei	Recommended Contact Capacity	Is≧300mA Vs≧35V DC				
Power	Current Consumption (Max.)	250mA (※1)				
Supply	Signal Wire Current (Max.) / Voltage		Is≧500mA	Vs≧35V∣	DC	
Inrush	Signal Wire	LED	None	Buzzer	None (※2)	
Current	Power Supply Wire		None	( <b>X</b> 3)		
Leakage Current		I <sub>L</sub> ≦0.1mA				

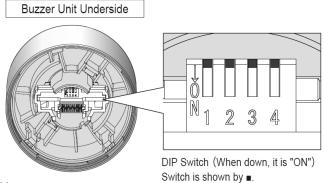
- **※1** · · · Measured with five LED tiers and buzzer operating.
- ※2· · · Not exceeding Maximum Signal Wire Current Ratings
- ※3 · · · Signal wire current (Max.) not exceeding the sum total.

#### ■ Recommended Fuse

Fuse Rated Current 250 V / 1A (5x20mm Fast-Acting Glass Body Cartridge Fuse )

#### 6.Buzzer Pattern Set-up

The B 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.



#### ■ Setup Table

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

DIP Switch	Volume		
3	Volume		
OFF N 3	Normal		
ON TO 3	Sound Reduction		

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

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