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SPECIFICATIONS

[1.General Specifications]

Product Name		Signal Tower			
Model		LR6-302WCNW	LR6-02WCNW	LR6-02WMNW	LR4-02WCNW
Rated Voltage		24V DC			
Operating Voltage Range		Rated Voltage $\pm 10\%$			
Rated Current	Typ.	LED Unit : 40mA			
	Max.	LED Unit : 45mA			
Rated Power	Typ.	LED Unit : 1W			
	Max.	LED Unit : 1.3W			
Operating Ambient Temperature		-20°C to +50 °C			
Operating Ambient Humidity		Less than 90 % (No condensation)			
Storage Ambient Temperature		-30°C to +60 °C			
Storage Ambient Humidity		Less than 90 % (No condensation)			
Mounting Location		Indoor			
Mounting Direction		Upright			
Protection Rating		IP65(IEC 60529) / NEMA TYPE 4X,13			
	Environmental Condition	Upright			
Insulation Resistance		More than 1M Ω at 500V DC between live part and non-current carrying metallic part			
Withstand Voltage		500V AC applied for 1min between live part and non-current carrying metallic part without breaking insulation			
Mass (Tolerance $\pm 10\%$)		LR6-302WCNW : 0.35kg			
		LR6-02WCNW : 0.17kg			
		LR6-02WMNW : 0.21kg			
		LR4-02WCNW : 0.09kg			
Compatible Unit (Optional)	LED Unit Model	LR6-E-R,Y,G,B,C,RZ,YZ,GZ,BZ,MZ			LR4-E-R,Y,G,B,C,RZ,YZ,GZ,BZ
	Buzzer Unit Model	LR6-BW			LR4-BW
Conformity Standards		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)			
Remarks		UL Recognized Component (File No.E215660)			
		Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur			

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[2.Model Number Configuration]

	Model		Tiers	Rated Voltage	Mounting/Wiring	Flashing/Buzzer	Body Color		LED Unit Color
Assembly Model	LR6	-	3	02	WC	N	W	-	RYG
Unit Model(Body Unit)	LR6	-		02	WC	N	W		
Unit Model(Body Unit)	LR6	-		02	WM	N	W		
Unit Model(Body Unit)	LR4	-		02	WC	N	W		

LR6 φ60
LR4 φ40

3 3Tiers

02 24V DC

WC	Direct Mount/M12 Connector (Mounting with M30 Nut)
WM	Direct Mount/M12 Connector (Mounting with 3 Hexagon Bolts)

N No Flashing / Buzzer

W Off-white

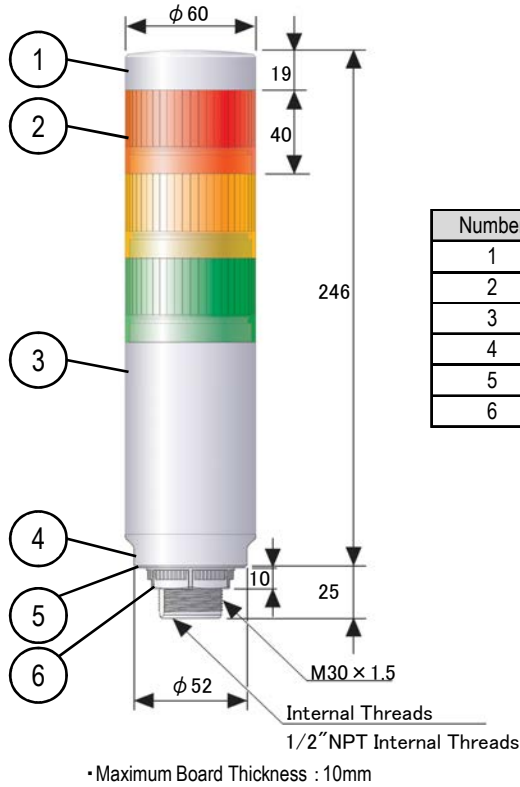
LED Color	
R	Red
Y	Amber
G	Green

From top to bottom

[3.Outer Dimensions]

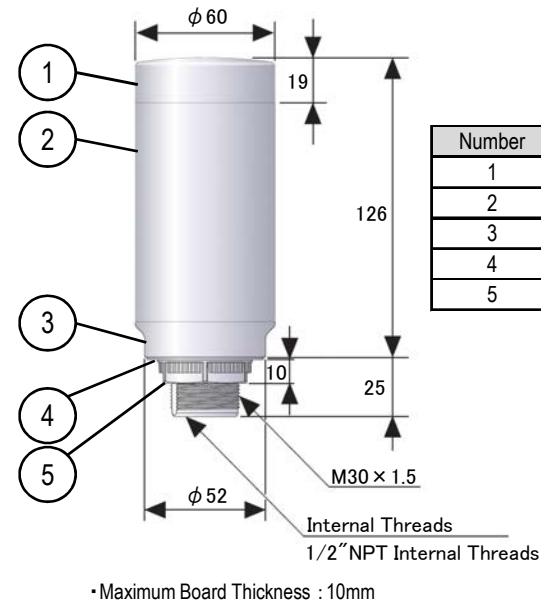
[mm]

■ LR6-302WCNW-RYG



Number	Name	Material	UL Flammability
1	Head Cover	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

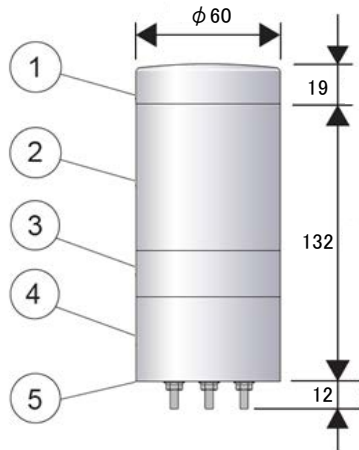
■ LR6-02WCNW



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

■ LR6-02WMNW

[mm]

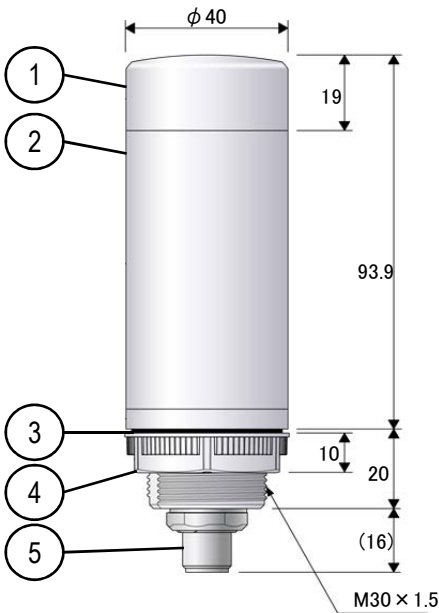


Number	Name	Material	UL Flammability
1	Head Cover	PC	V-2
2	Body	PC	V-2
3	M12 Bracket	PC	V-2
4	Direct Mount Bracket	PC	V-2
5	Waterproof Packing	Sillcone Rubber	-



•Maximum Board Thickness : 8mm

■ LR4-02WCNW



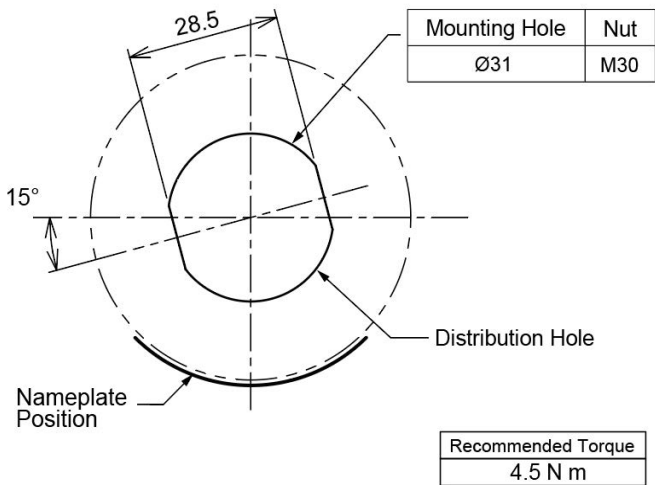
Number	Name	Material	UL Flammability
1	Head Cover	PC	V-2
2	Body	PC	V-2
3	Waterproof Packing (t =1)	Silicone Rubber	-
4	M30 Nut	PC	V-2
5	M12 Connector	Brass	-

•Maximum Board Thickness : 8mm

[4.Mounting Dimensional Drawing]

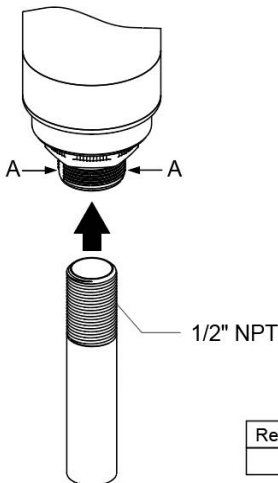
■ **WC** Mounting Dimensional Drawing(M30×1.5 Installation)

[mm]

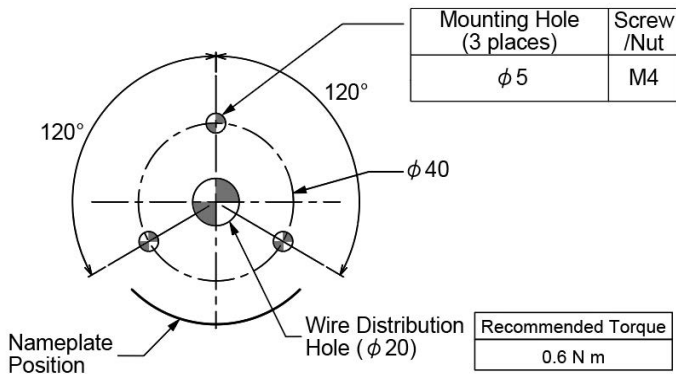


■ **LR6** - **WC** Installation Figure(1/2" NPT Installation Figure)

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

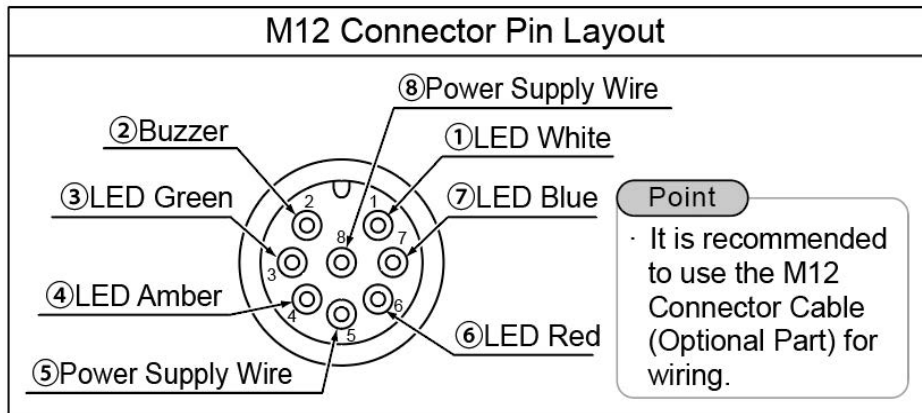


■ **WM** Mounting Dimensional Drawing (Only for LR6)

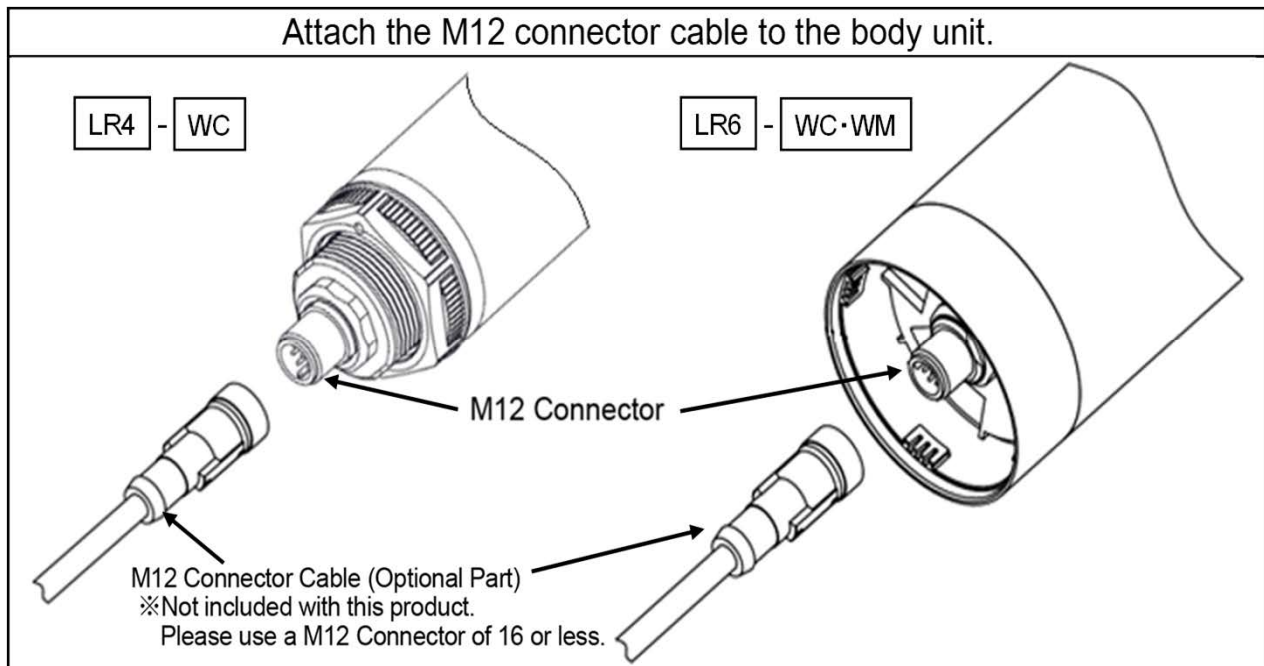


[5.Wiring Diagram]

5.1 M12 Connector Pin Layout 8-pin male(plug)



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



5.3 Optional Parts

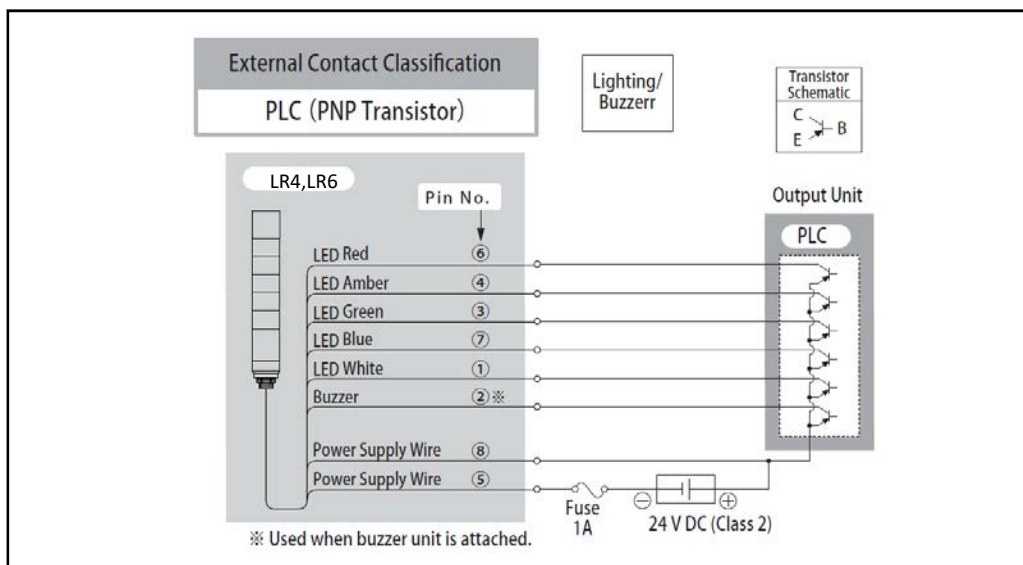
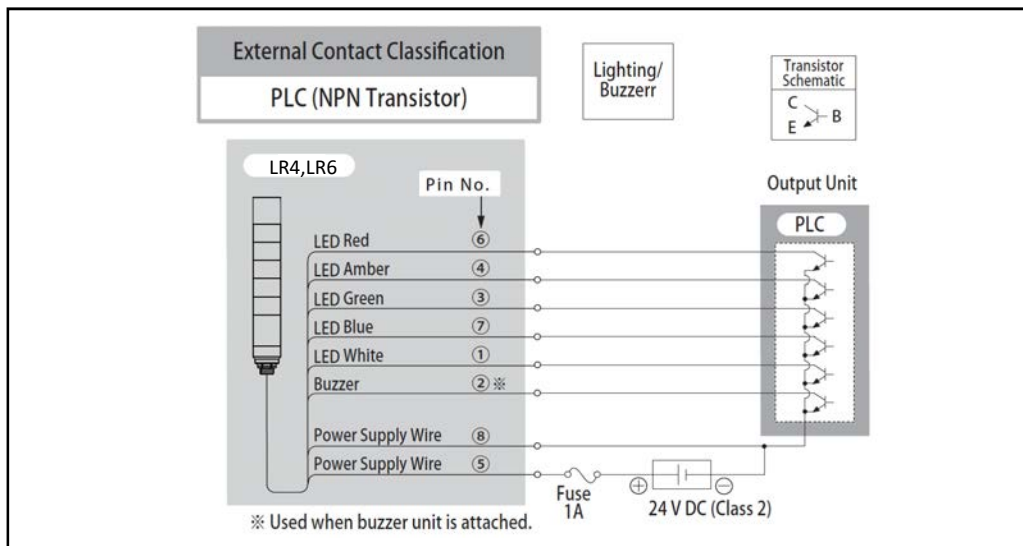
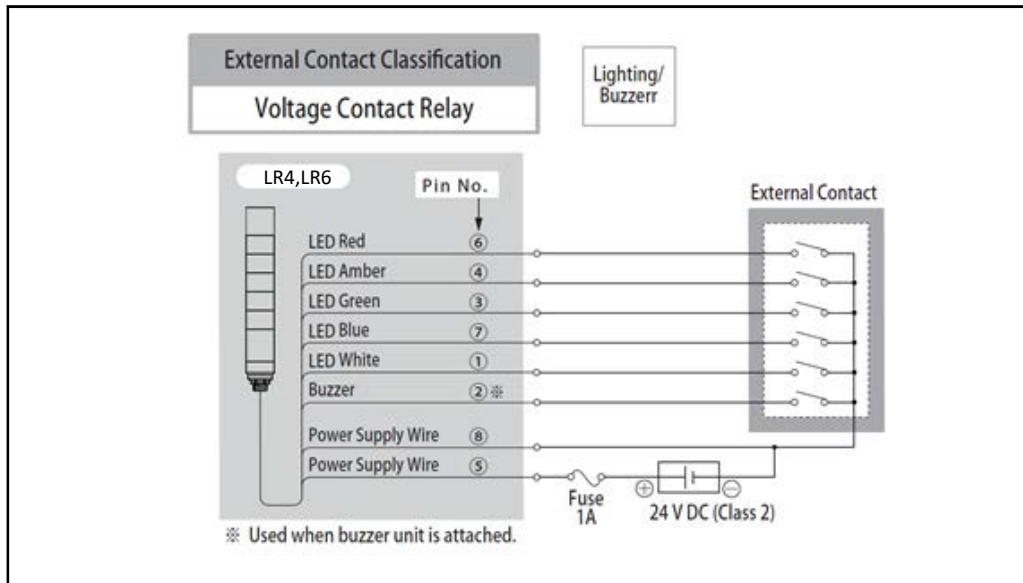
Optional Parts

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

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

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

5.4 Wiring Example



5.5 External Contact Capacity

I_S : Current Capacity V_S : Withstand Voltage I_L : Leakage Current

Rated Load Voltage		24V DC			
LED Unit (1 Tier)	Signal Wire Current (Max.) / Voltage	45mA / Power Supply Voltage			
	Recommended Contact Capacity	$I_S \geq 100\text{mA}$ $V_S \geq 35\text{V DC}$			
Buzzer	Signal Wire Current (Max.) / Voltage	250mA / Power Supply Voltage			
	Recommended Contact Capacity	$I_S \geq 300\text{mA}$ $V_S \geq 35\text{V DC}$			
Power Supply	Current Consumption (Max.)	250mA (※1)			
	Signal Wire Current (Max.) / Voltage	$I_S \geq 500\text{mA}$ $V_S \geq 35\text{V DC}$			
Inrush Current	Signal Wire	LED	None	Buzzer	None (※2)
	Power Supply Wire	None (※3)			
Leakage Current		$I_L \leq 0.1\text{mA}$			

※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)
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