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SPECIFICATIONS

Product Name: Signal Tower with Ethernet

Model:LR5-02□ENW、LR5-□02□E□W-□

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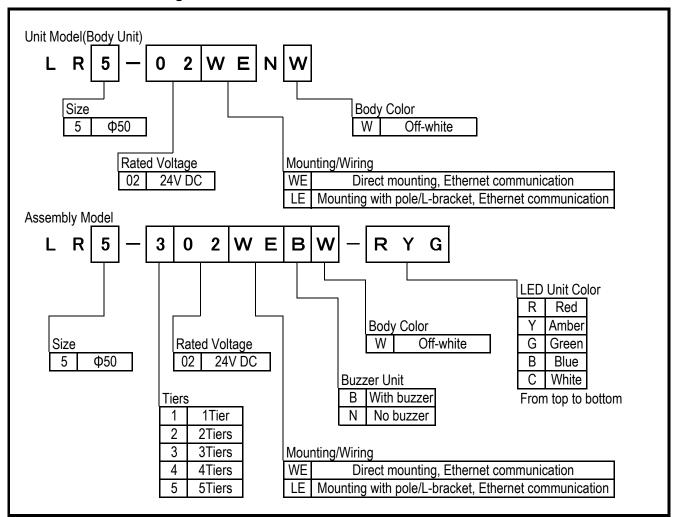
1. General Specifications

R	ated Voltage	24V DC				
	ng Voltage Range	Rated Voltage ± 10%				
•		Main Unit Typ.15 mA Max. 20 mA				
	ated Current		D Unit	Typ.40 mA Max. 45 mA (per tier)		
C	onsumption		zer Unit	Typ.40 mA Max. 45 mA		
Operating /	Ambient Temperature			-20°C ~ +50°C		
	g Ambient Humidity		9	0% RH or less, no freezing, no condensation		
	mbient Temperature			-30°C ~ +60°C		
	Ambient Humidity		9	0% RH or less, no freezing, no condensation		
	inting Location			Indoors		
	Inting Direction			Upright		
		WE Type	9	IP 65 (IEC 60529)		
Pro	tection Rating	LE Type		IP 54 (IEC 60529)		
Enviro	onmental Condition) 0	<u> </u>	Upright		
	ation Resistance	More tha	n 5M Ω at 50) VDC between the live part and non-current carrying metallic part		
				00 VAC applied for 1 min between live part		
With	nstand Voltage			rrent carrying metallic part without breaking insulation		
				(LED Unit) + [Buzzer Unit]		
Mass (Tolerance:±10%)	WE Type	9	0.1kg + (0.04kg)×Tiers + [0.05kg]		
(LE Type		0.39kg + (0.04kg)×Tiers + [0.05kg]		
Out	er Dimensions	71	1	Refer to the Outer Dimension Drawing		
		No.1 Rapid intermittent beep / 3,378Hz				
Ві	uzzer Sound	·		Continuous beep sound / 3,378Hz		
	ical Frequency	No.3 Rapid Hi-Lo / 2,016Hz&3,012Hz				
,	, , , , , , , , , , , , , , , , , , , ,	No.4 Sweep sound / 1,000Hz-4,032Hz				
	Setting	Depending on DIP Switch Settings Refer to the 7.Buzzer Pattern Set-up				
	<u> </u>		<u>J</u>	Typ.85dB		
Sound	Pressure Level	Sound Reduction Approx10dB				
		Depending on DIP Switch Settings Refer to the 7.Buzzer Pattern Set-up				
Enviro	nmental Condition	Buzzer s	ound No.4 w	as measured from the total circumfrence of the Buzzer Unit at 1m		
<u>.</u>				Screwless Terminal Block (24V DC)		
Interfaces	Power Supply	Suppo Wire Dia		e wire : φ0.5~1.2mm Stranded wire : 0.2-1.5mm² (AWG24-16)		
	Ethernet			RJ-45 Connector		
Network Co	ommunication Format			Ethernet (IEEE802.3 Conformity)		
Network Communication Format 10BASE-T/100BASE-TX (Auto-MDI/MDIX)		1				
Operation Interface Switch for Initialize ×1pc		·				
Accessories		WE Type		Hexagon nut with flange(M3) ×3pcs		
A0003301103		LE Type	:	L-bracket ×1pc		
		LED Unit		LR5-E-□、LR5-E-□Z		
Su	upported Unit			*Maximum number of 5 tiers for LED Units		
		Buzzer Unit		LR5-BW		
		WD transmitter		WDT-5LR-Z2		
Supported Option		Wall-Mount Bracket		SZK-002W, SZK-001U		
		Circular Bracket		SZ-010		
		L-bracket		SZL-001		
		Circular Bracket		SZW-001W		
		Mounting Bracket		SZW-002W		
		AC Adapter		ADP-001C		

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Conformity Standards	UL 508 ,CAN/CSA C22.2 No.14-18 FCC Part15 SubpartB(Class A), ICES-003 Issue 7(Class A) EN 61000-6-4, EN 61000-6-2, EN IEC 63000 KS C 9610-6-4, KS C 9610-6-2
Remarks	 Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur Conforms to the CE/UKCA requirements UL Recognized Component(File No.E215660) Modbus is a registered trademark of Modicon Inc. (Schneider Automation International). Microsoft Edge is registered trademark of Microsoft Corporation in the United States and other countries. Google Chrome is a trademark or registered trademark of Google LLC.

2. Model Number Configuration



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3.Action Specifications

		s + off can be controlled for each LED unit color	
LED unit operation control	Flashing Pattern	1	Continuous ON
		2	Flashing(Slow) [0.5sec ON / 0.5sec OFF]
		3	Flashing(Medium) [0.25sec ON / 0.25sec OFF]
		4	Flashing(Fast) [0.125sec ON / 0.125sec OFF]
		5	Single Flash
		6	Double Flash
		7	Triple Flash
Buzzer unit operation control	ON/OFF control		

[※] The intermittent buzzer and the LED pattern do not synchronize.

4.Function Specifications

4.1 LED unit, Buzzer unit control function

Modbus/TCP	Controllable with Modbus/TCP Command
HTTP/HTTPS	Controllable with HTTP/HTTPS Command
Socket Communication	Controllable with PNS Command

4.2 Status Acquisition Function

Modbus/TCP	Current status of Signal Tower, Buzzer		
Modbus/ I CP	can be acquired by Modbus/TCP Command.		
UTTD/UTTDC	Current status of Signal Tower, Buzzer and Firmware Version		
HTTP/HTTPS	can be acquired by HTTP/HTTPS Command.		
Socket Communication	Current status of Signal Tower, Buzzer can be acquired by PNS Command.		

4.3 External Monitoring Function

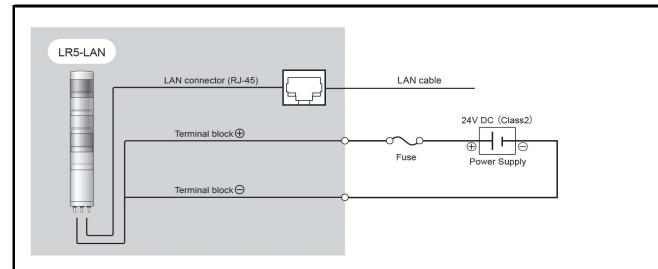
Ping M	onitoring	Network abnormality detection by sending Ping network devices
	Number of Monitoring	1
	Monitoring Cycle	1∼600 seconds
	Sending Count	The number of times to detect can be set from 1 to 30.
	Number of Sending	The number of sending Ping by one monitoring can be set from 1 to 3.
Modbu:	s/TCP Monitoring	Monitor the connection status with the Modbus/TCP master
	Number of Monitoring	1

4.4 Setting Function

Automatic Network Setting	Network setting in this product can communicate with			
Automatic Network Setting	a DHCP server to be set automatically.			
Configuration Setting	Various configurations of the Main Unit can be read and written as setting files			
Main Unit Setting	Various settings of the main body can be done with a web browser.			
Main Onit Setting	Supported browsers: Microsoft Edge, Google Chrome			
Firmware Update	Firmware of the main unit can be updated using WEB browser.			
Languages supported	Japanese, English, Traditional Chinese, Sinplified Chinese, Korean, Thai			
on the setting screen	German, French, Italian, Spanish			

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5.Wiring



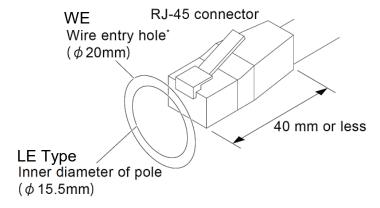
Fuse

Fuse Rating 250V / 1A

**Reccomended Fuse : 250V/1A (5 × 20mm Fast-Acting Glass Body Cartridge Fuse)

LAN cable

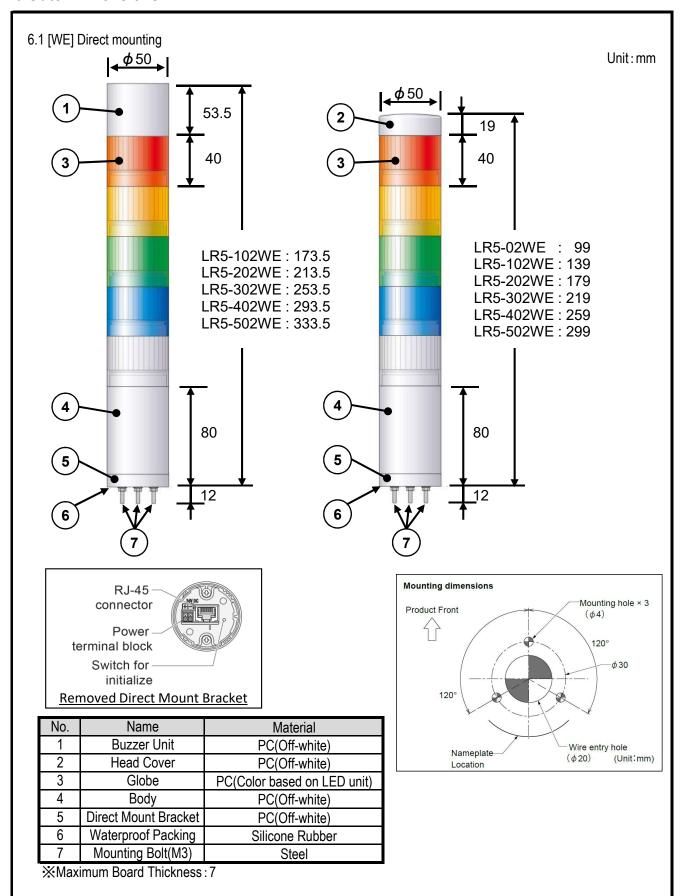
Since the RJ-45 connector at the end of the LAN cable is connected to the body, it should meet the dimensional requirements shown below.



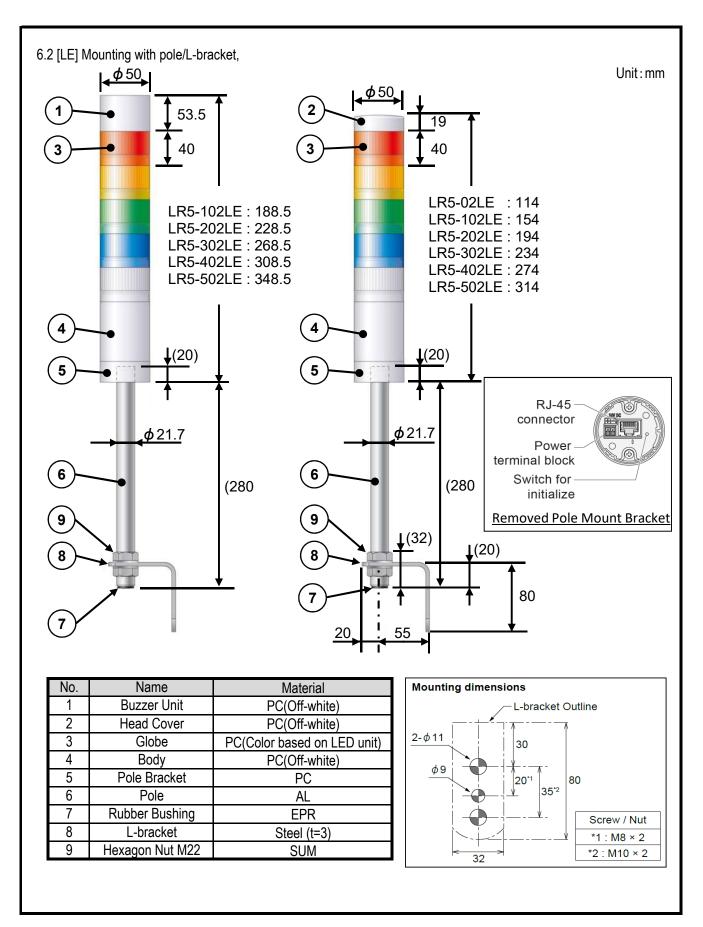
*When using the wall-mount bracket SZK-002W and SZK-001U, you have to use LAN cable with a diameter of 15 mm or less.

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6.Outer Dimensions



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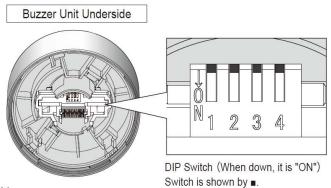


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7.Buzzer Pattern Set-up

If your product is a model with a buzzer unit (B), you can set a buzzer sound and volume. To set them, you have to remove the buzzer unit and configure the DIP switches on its bottom.



■ Setup Table

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

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

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