PATLITE®

**Signal Tower**
**LR5-LAN Series**

# Simple Settings for Easy Control

## Control with Universal Protocols

Easily operated using HTTP(S) and Modbus/TCP protocols

RoHS 10 CE cULus KC UKCA

www.patlite.com

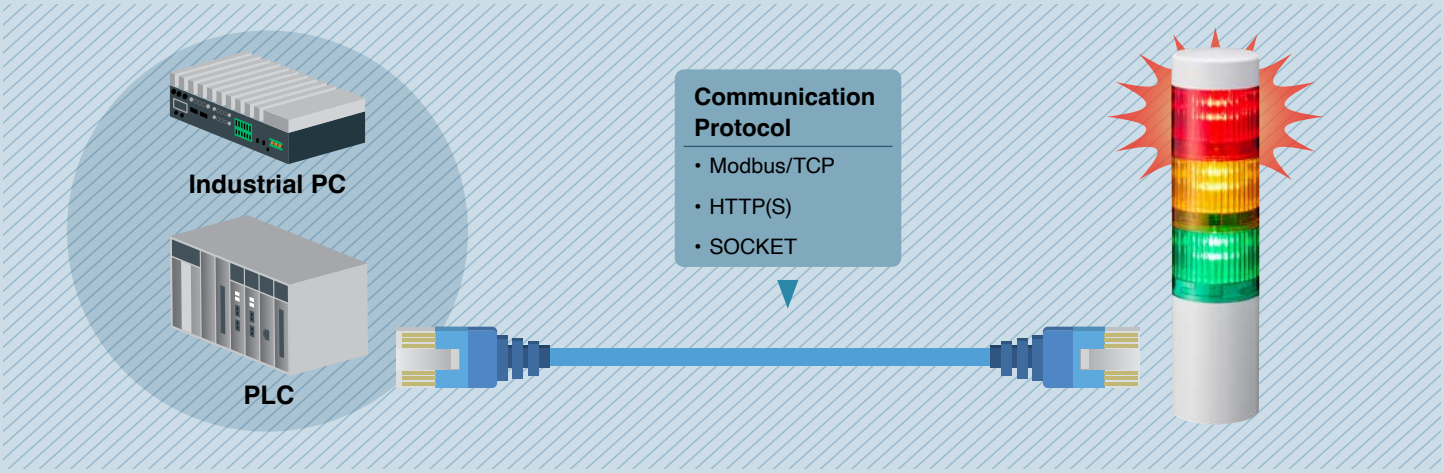
# Direct LAN Control from Industrial PCs/PLCs Makes Configurating & Signaling Easy

**Before**

In an industrial PC-controlled system, a contact output board was being used, leading to an increase in component count and complications in inventory and delivery management.

**After**

**With direct control of signal towers via HTTP(S) or Modbus/TCP, the need for a contact output board has been eliminated.**




## Control with Industrial PC/PLC

Semiconductor Manufacturing Equipment

**Command control directly from Industrial PCs or PLCs. Eliminate the need for contact output boards and reduce the number of required contact points.**

Machine Tools

## Notification from Higher-Level Systems

**SCADA and production management systems can display status and alerts using standard protocols. By visualizing alerts not only on monitors, but also through signal towers (which are common in manufacturing environments), the operators can quickly grasp information and prevent oversights.**

Notification from SCADA and Other Systems

# Simple Software Design

## Command Generation Feature

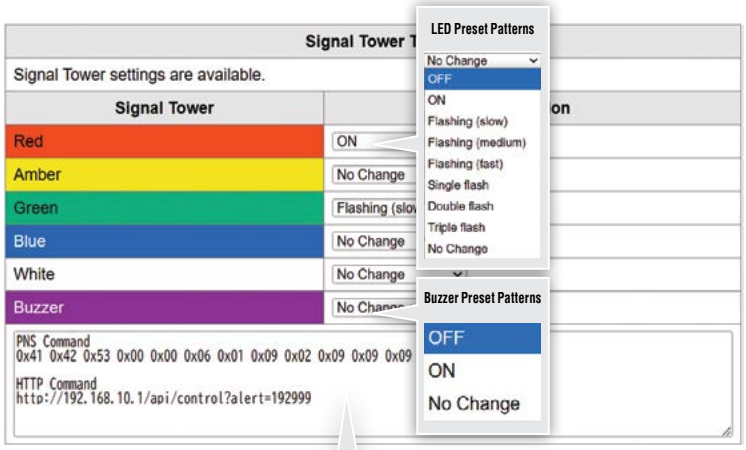
After logging into the LR5-LAN via a web browser, select the desired operation from the setting screen to display the corresponding command. This allows for easy command verification without the need to read the user manual, reducing time spent on  software development.

## Sample Source Code

Sample source code for operating the LR5-LAN is available on the product's web page. Various programming languages are provided for Windows® and Linux, allowing you to quickly test it using your preferred or project-specific language.

## Comprehensive Flashing Presets

Seven preset patterns for LED control are available. Since Flashing operations can be executed through command control alone, it reduces the effort required for setting clock pulses in PLCs.




**For example, if you select "Red ON" and "Green Flashing" on the screen, a command will be generated as shown below:**

**■ PNS Command (SOCKET)**

0x41 0x42 0x53 0x00 0x00 0x06 0x01 0x09
0x02 0x09 0x09 0x09

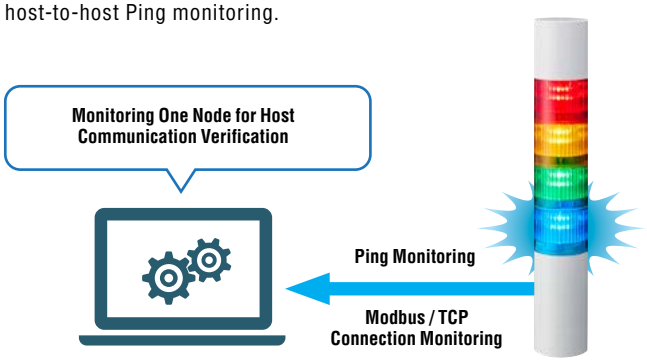
**■ HTTP Command**

http://192.168.10.1/api/control?alert=192999

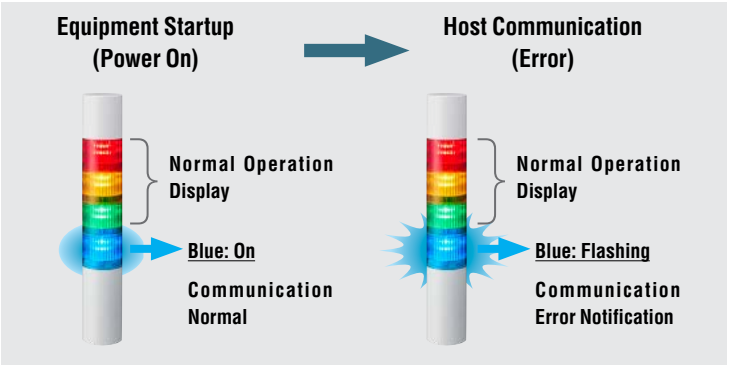
**Check Actual Operation**

# Host Device Connection Verification Function

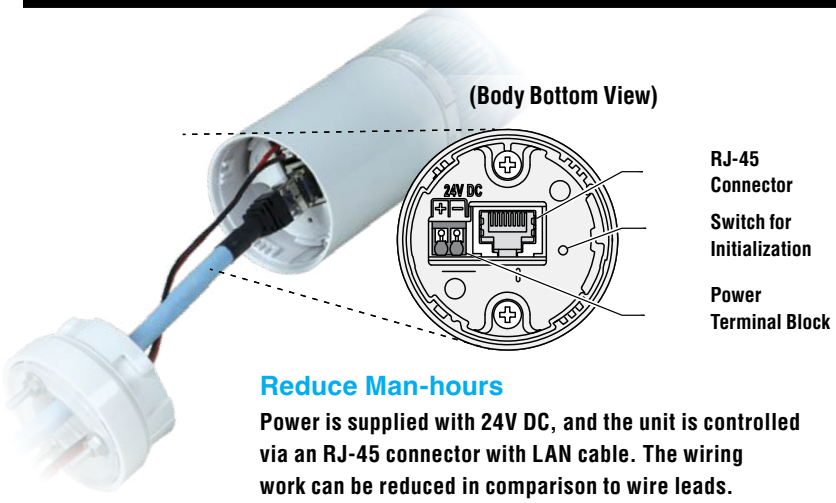
The connection with the device can be checked. If the connection is lost, the LED unit provides a notification, enabling host-to-host Ping monitoring.




## Monitoring Example




# Reduce Wiring Labor




## Reduce Man-hours

**Power is supplied with 24V DC, and the unit is controlled via an RJ-45 connector with LAN cable. The wiring work can be reduced in comparison to wire leads.**

## Easy Setup

**By using the optional ADP-001C, power can be supplied from an AC outlet. Even if 24V DC is not available, the ADP-001C can easily be implemented without construction.**

## Model Code Lineup

# LR5-502WEBW-RYGBC

① ② ③ ④ ⑤ ⑥

**① Tiers**
= 0 tiers
1 = 1 tier
2 = 2 tiers
3 = 3 tiers
4 = 4 tiers
5 = 5 tiers

**② Rated Voltage**
02 = 24V DC

**③ Mounting / Communication Specification**
WE = Direct mounting / Ethernet Control
LE = Pole Mounting with L-bracket / Ethernet Control

**④ Buzzer**
B = With Buzzer
N = No Buzzer

**⑤ Body Color**
W = Off-white

**⑥ LED Color**
R = Red
Y = Amber
G = Green
B = Blue
C = White

| Direct Mounting with 3-point screw | | | Pole Mounting with L-bracket | |
|---|---|---|---|---|
| **Tiers** | **No Buzzer** | **With Buzzer** | **No Buzzer** | **With Buzzer** |
| 0 tiers | LR5-02WENW | - | LR5-02LENW | - |
| 1 tier | LR5-102WENW-R/Y/G | LR5-102WEBW-R/Y/G | LR5-102LENW-R/Y/G | LR5-102LEBW-R/Y/G |
| 2 tiers | LR5-202WENW-RY/RG | LR5-202WEBW-RY/RG | LR5-202LENW-RY/RG | LR5-202LEBW-RY/RG |
| 3 tiers | LR5-302WENW-RYG | LR5-302WEBW-RYG | LR5-302LENW-RYG | LR5-302LEBW-RYG |
| 4 tiers | LR5-402WENW-RYGB | LR5-402WEBW-RYGB | LR5-402LENW-RYGB | LR5-402LEBW-RYGB |
| 5 tiers | LR5-502WENW-RYGBC | LR5-502WEBW-RYGBC | LR5-502LENW-RYGBC | LR5-502LEBW-RYGBC |

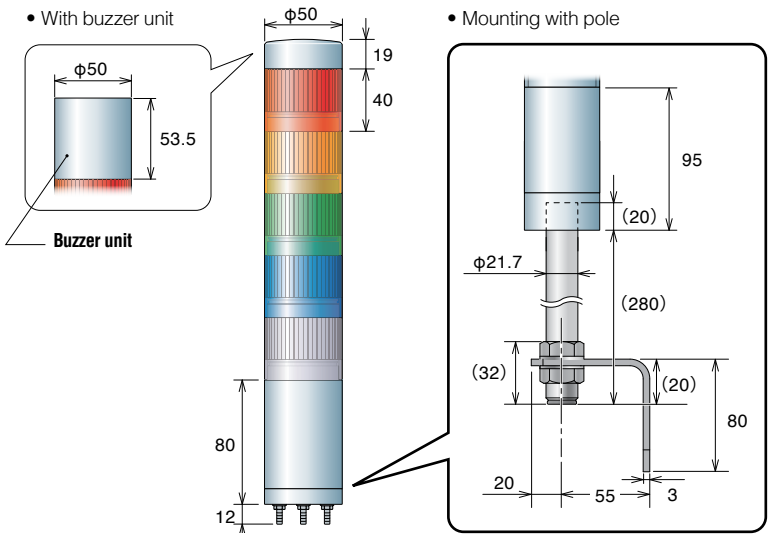
**Note:**
• Custom color configurations available. (Configurations using the same color LED modules cannot be controlled separately)
• Poles are not sold separately.

| Option | Direct Mount | Pole Mount |
|---|---|---|
| LR5-E-□ | ✔ | ✔ |
| LR5-BW | ✔ | ✔ |
| WDT-5LR-Z2 | ✔ | ✔ |
| SZK-002W | ✔ | - |
| SZW-001W | ✔ | - |
| SZW-002W | ✔ | - |
| SZK-001U | - | ✔ |
| SZ-010 | - | ✔ |
| SZL-001 | - | ✔ |
| ADP-001C | ✔ | ✔ |

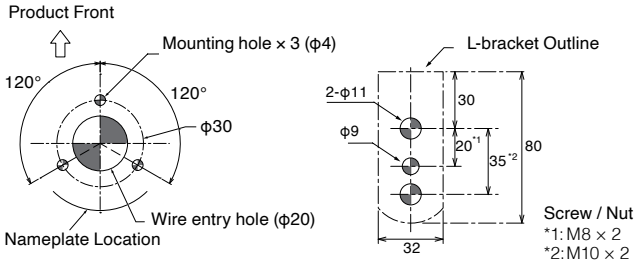
Please check the instruction manual for details.

## Specifications & External Dimensions (Unit: mm)

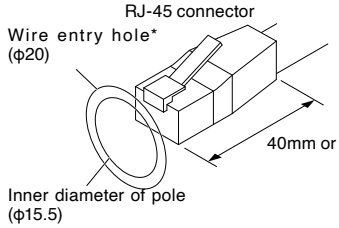
### LR5-□02WE / LR5-□02LE Series




### Mounting dimensions




### LAN Cable RJ-45 Connector Recommended Size




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

| Model Code | LR5-□02WE□W (Direct Three-point Screw Mount) | LR5-□02LE□W (Pole Mount with L-bracket) |
|---|---|---|
| Rated Voltage | 24V DC (Polarized) | |
| Operating Voltage Range | Rated Voltage ± 10% | |
| Ambient Temperature / Ambient Humidity | -20°C ~ +50°C / 90% RH or less, no freezing, no condensation | |
| Protection Rating | IP65 (IEC 60529) | IP54 (IEC 60529) |
| Mass (Tolerance: ±10%) | 0.1kg + (0.04kg)×Tiers + [0.05kg] (Using the Buzzer) | 0.39kg + (0.04kg)×Tiers + [0.05kg] (Using the Buzzer) |
| Network Communication Format | Ethernet (IEEE802.3 Conformity) 10BASE-T/100BASE-TX (Auto-MDI/MDI-X) | |
| Communication Protocol | HTTP(S), Modbus/TCP, SOCKET | |

**⚠ CAUTION**

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

PATLITE®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