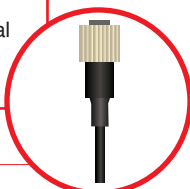


Reduce Installation Time with Quick Disconnect M12 Signal Towers



What is the M12 connector? IEC 61076-2-101

- A robust circular connector for industrial use, offering watertight and dustproof performance, suitable for signal and power connections.
- In addition to being compatible with a wide variety of applications, the connection also provides stable signal transmission and power.



Designed for Quick and Easy Installation

Rugged and reliable M12 connection

Designed for Use in Various Environments

Features flexible installation and mounting options while maintaining clear visual and audible indication



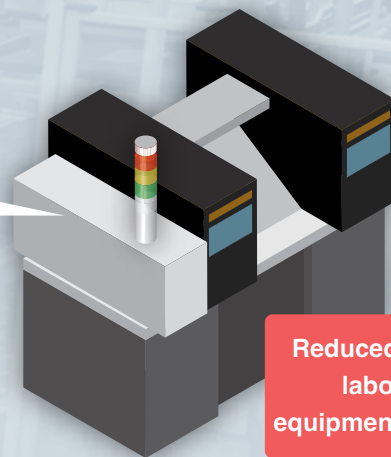
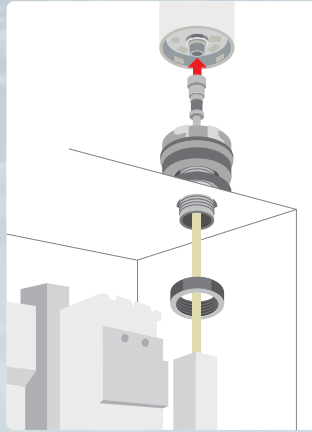
* Pole-mount version
schedule for **June 2025 release**

Advantages of M12 Connectors

Simplified Wiring Significantly Reduces Installation Time

Reduce Wiring Workload During Equipment Installation.

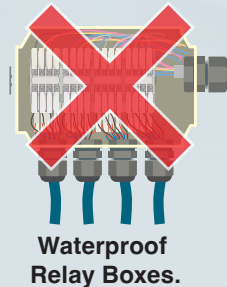
Save time and effort with a single M12 cable, making attachment and detachment quick and easy.



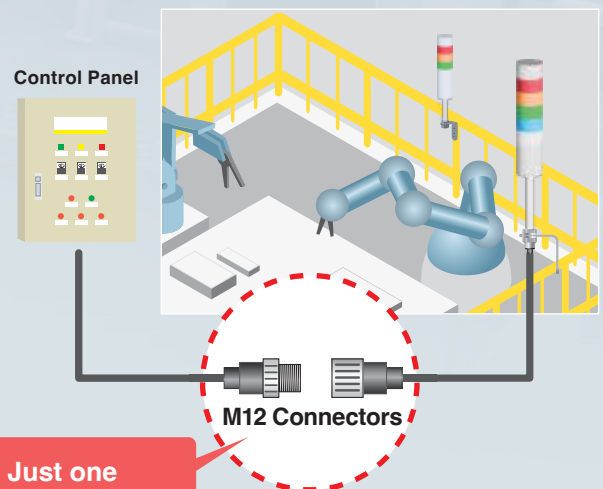
Reduced installation labor during equipment deployment.

No Need for Relay Boxes and Maintenance

Using a watertight M12 connector eliminates the need for relay boxes as well as making maintenance and rewiring more efficient.



Waterproof Relay Boxes.



Just one simple connection.

Prevent Incorrect Wiring

Having only one cable to connect for installation and removal, the M12 ensures proper connection and no faulty wiring.

No time consuming preparations!



Terminal Crimp



Terminal Wiring



Screw Tightening



Simplified wiring!



Model

LR6-302W5BW-RYG

① ② ③ ④ ⑤ ⑥ ⑦

| | | | | | | |
|---------------------|------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|
| ① Size 6 = Φ60mm | ② Tiers = 0 tiers 1 = 1 tier 2 = 2 tiers 3 = 3 tiers 4 = 4 tiers 5 = 5 tiers | ③ Rated Voltage 02 = 24V DC | ④ Mounting / Wiring W4 = Direct mounting (Mounting with M30 Nut) / M12 connector 4-pin W5 = Direct mounting (Mounting with M30 Nut) / M12 connector 5-pin W8 = Direct mounting (Mounting with M30 Nut) / M12 connector 8-pin L4 = Pole Mounting with L-bracket - M12 connector 4-pin L5 = Pole Mounting with L-bracket - M12 connector 5-pin L8 = Pole Mounting with L-bracket - M12 connector 8-pin | ⑤ Buzzer B = With Buzzer N = No Buzzer *No buzzer option for 4-pin models | ⑥ Body Color W = Off-White K = Black | ⑦ LED Unit Color R = Red Y = Amber G = Green B = Blue C = White |
|---------------------|------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|

* Scheduled for Release
in June 2025

Model No.
Example

4-pin Model
LR6-302W4NW-RYG
LR6-302L4NW-RYG

5-pin Model
LR6-302W5BW-RYG
LR6-302L5BW-RYG

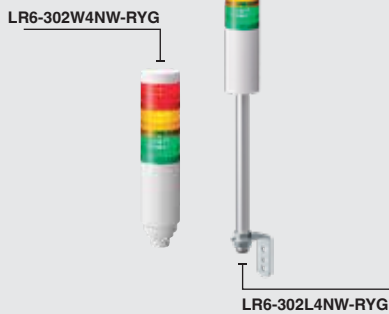
8-pin Model
LR6-502W8BW-RYGBC
LR6-502L8BW-RYGBC

Product list →

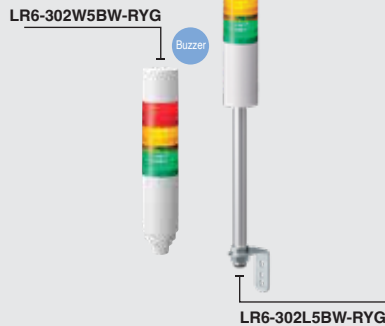


Wiring Example / M12 Connector Pin Layout

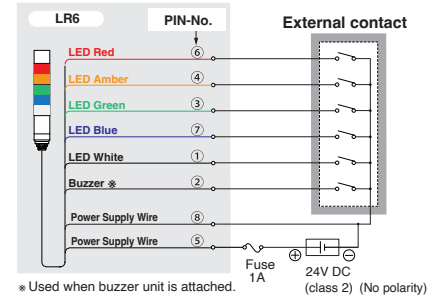
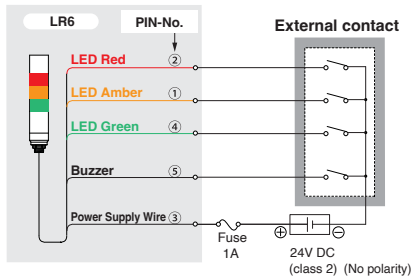
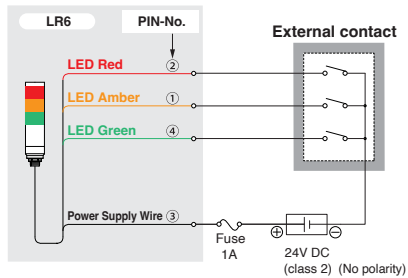
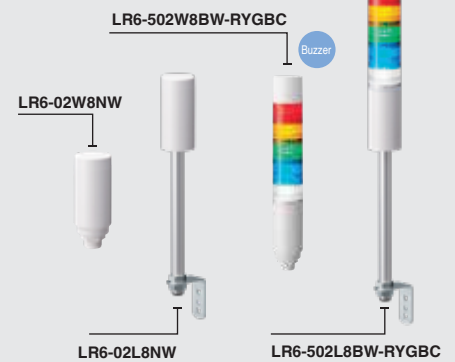
Assembled Model 4-pin



Assembled Model 5-pin



Body Unit / Assembled Model 8-pin

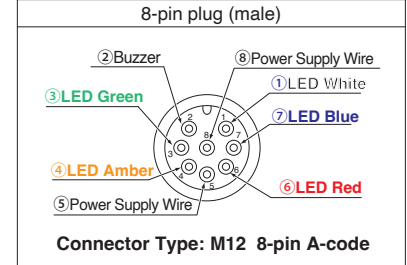
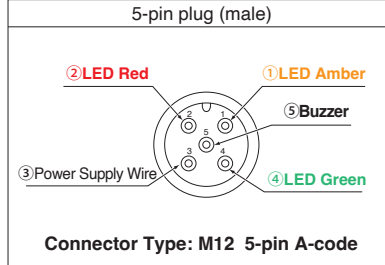
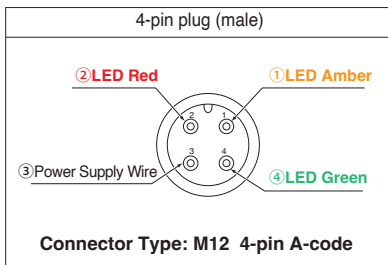


* Used when buzzer unit is attached.

| Buzzer Unit | WD Transmitter |
|---------------|----------------|
| Not Supported | Not Supported |

| Buzzer Unit | WD Transmitter |
|-------------|----------------|
| Supported | Not Supported |

| Buzzer Unit | WD Transmitter |
|-------------|----------------|
| Supported | Supported |

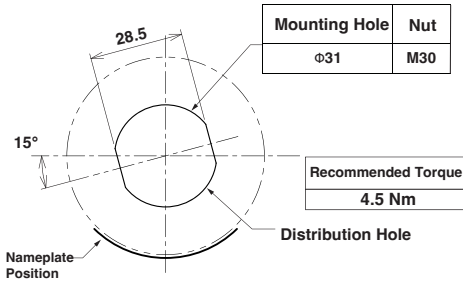


Note

- For 4-pin and 5-pin models, standard blue, white, and multi-color LED units cannot be used. Please use custom blue and white LED units (refer to the last page).
- Poles for these models are not sold separately.
- Cable not included with this product.

Outer Dimensions (Unit: mm)

■ Mounting Dimensional Drawing (M30x1.5 Installation)



■ Installation Figure

1 Make mounting holes for the product.

2 Pass the M12 cable through.

3 Fix the product.

Recommended Torque

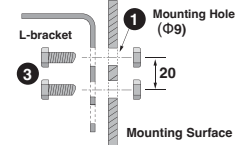
30 N m

Note

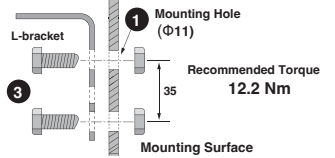
When not using a L-bracket attachment, use a 22 to 23mm diameter hole

* For more details please refer to the installation manual

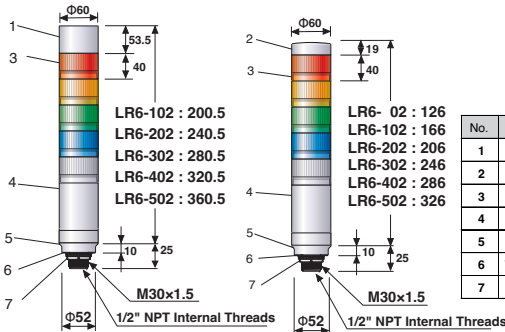
Measurements for M8 screws and nuts



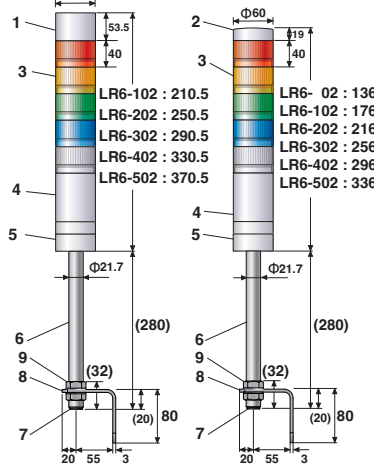
Measurements for M10 screws and nuts



■ W4/W5/W8 Direct Mounting (Mounting with M30 Nut) / M12 Connector



■ L4/L5/L8 Pole Mounting L-bracket / M12 Connector



Option

■ Connector with Cable

8-pin type, one-side connector

SZ-120-02 : 2m

SZ-120-05 : 5m

SZ-120-10 : 10m



■ Wall Mount Bracket



Material: PC
SZK-005W

■ Mounting Dimensional Drawing (Unit: mm)

Mounting Hole (Φ5.5x2 places)

Wire Distribution Hole (Φ20)

M5
Recommended Torque
1.4 Nm

Ordering Blue or White LED units for 4-pin or 5-pin models

Example order for 3 lights: Red, Amber, and Blue or White (instead of Green)

The green control pin will be used to light the Blue or White LED

Purchase a 2-tier assembled model

LR6-202W5BW-RY

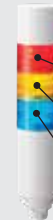


Then purchase a special LED unit that uses the green control pin

LR6-E-BG+B0962

Color of LED:
B = Blue
C = White

Wire Used for LED:
G = Green Control Pin
R = Red Control Pin
A = Amber Control Pin



[Standard LED Unit (Red)]
Uses Red control pin

[Standard LED Unit (Amber)]
Uses Amber control pin

*Example:
[Special LED unit (Blue)]
Uses Green control pin

Specifications

| | |
|----------------------------------------|---------------------------------------------|
| Supported Transistors | NPN / PNP |
| Rated Voltage | 24V DC |
| Rated Power Consumption | Max. 6.6W |
| Protection Rating | Direct mounting: IP65 / Pole mounting: IP54 |
| Mounting Location / Mounting Direction | Indoor / Upright |

⚠ 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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