

# 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

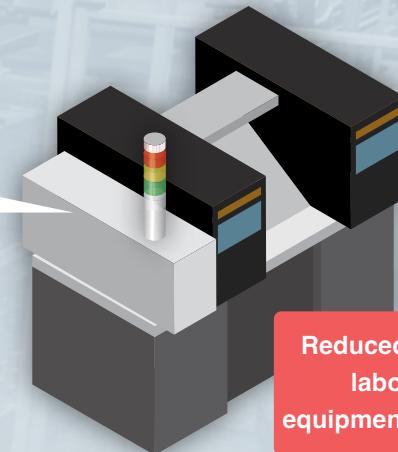
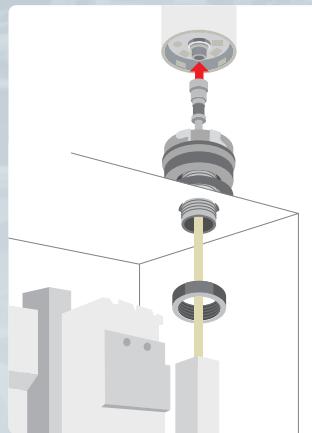


\* Pole-mount version  
schedule for **June 2025 release**

# Simplified Wiring Significantly Reduces Installation Time

### Reduce Wiring Workload During Equipment Installation.

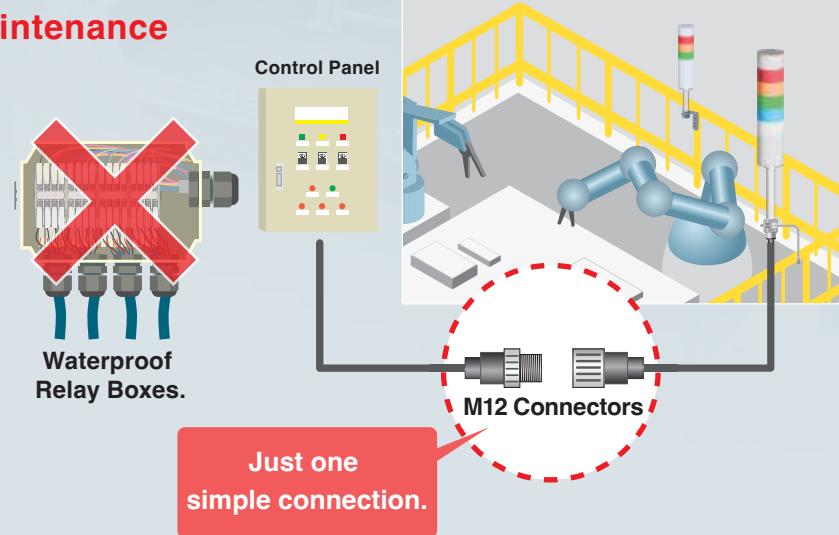
Save time and effort with a single M12 cable, making attachment and detachment quick and easy.



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.



### 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 =  $\Phi$ 60mm  
1 = 1 tier  
2 = 2 tiers  
3 = 3 tiers  
4 = 4 tiers  
5 = 5 tiers

② Tiers  
= 0 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  
⑤ Pole Mounting with L-bracket - M12 connector 4-pin  
L4 = Pole Mounting with L-bracket - M12 connector 5-pin  
L5 = Pole Mounting with L-bracket - M12 connector 8-pin  
⑥ Body Color  
W = Off-White  
K = Black  
⑦ LED Unit Color  
R = Red  
Y = Amber  
G = Green  
B = Blue  
C = White

B = With Buzzer  
N = No Buzzer  
\*No buzzer option for 4-pin models

\* 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-RYGB  
LR6-502L8BW-RYGB

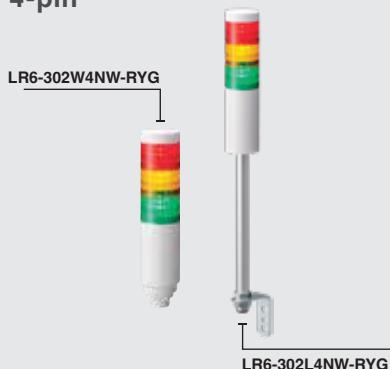
Product list 



## Wiring Example / M12 Connector Pin Layout

### Assembled Model

#### 4-pin



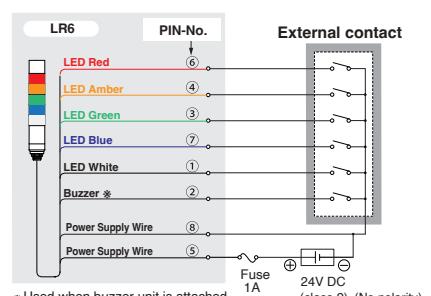
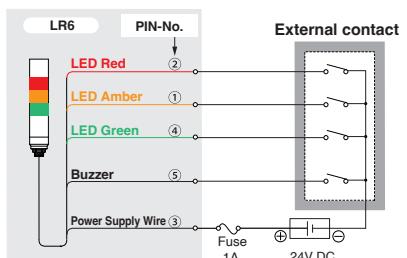
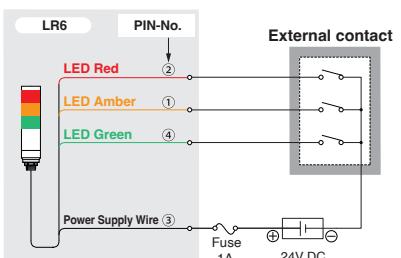
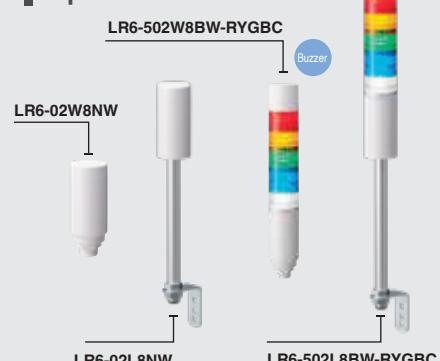
### Assembled Model

#### 5-pin

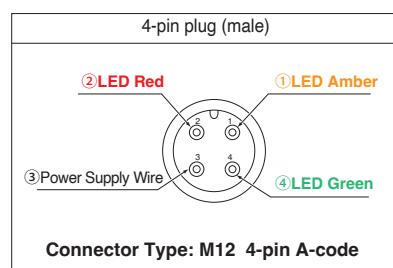


### Body Unit / Assembled Model

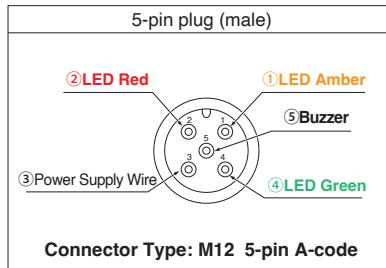
#### 8-pin



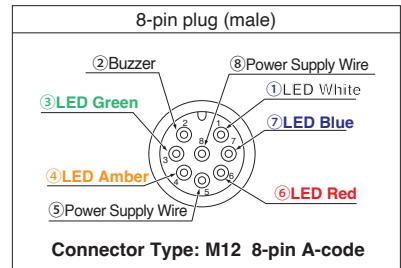
Buzzer Unit	WD Transmitter
Not Supported	Not Supported



Buzzer Unit	WD Transmitter
Supported	Not Supported



Buzzer Unit	WD Transmitter
Supported	Supported

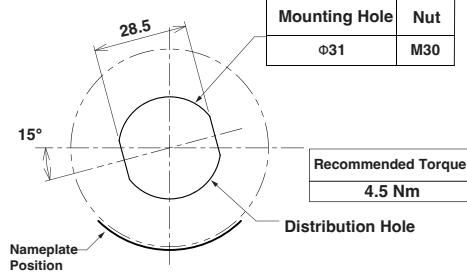


### Note

- 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.

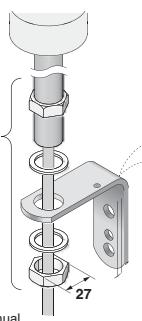
#### Recommended Torque

30 N m

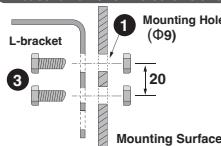
#### Note

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

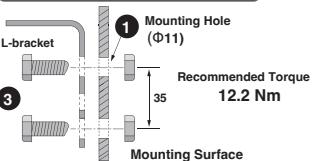
\* For more details please refer to the installation manual



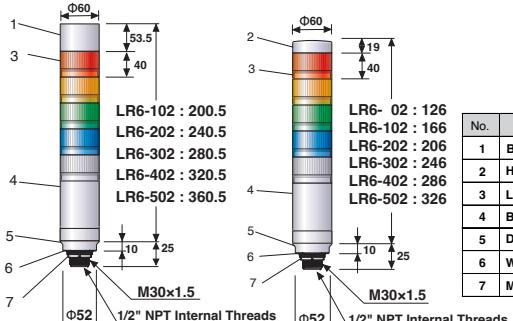
#### Measurements for M8 screws and nuts



#### Measurements for M10 screws and nuts

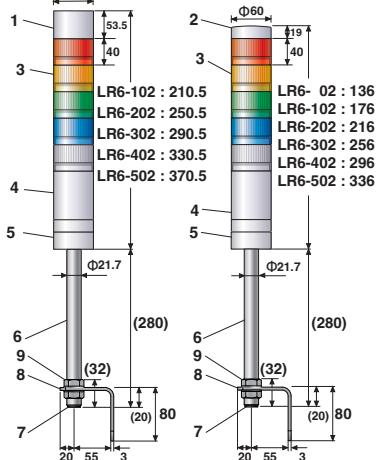


### W4/W5/W8 Direct Mounting (Mounting with M30 Nut) / M12 Connector



No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	PC
4	Body	PC
5	Direct Mount Bracket	PC
6	Waterproof Packing	Silicon Rubber
7	M30 Nut	PC

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



No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	PC
4	Body	PC
5	Pole Bracket	PC
6	Pole	AL
7	Grommet	Silicone Sponge
8	L-bracket	Steel Plate
9	Hex Nuts M22	SUM

## Option

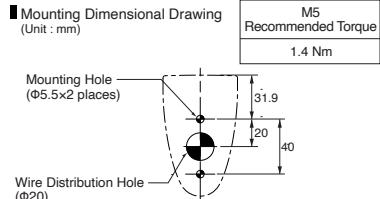
### Connector with Cable

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

### 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

<b>CAUTION</b>
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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