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- 🟡 Factory
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- 🔵 Representative Office
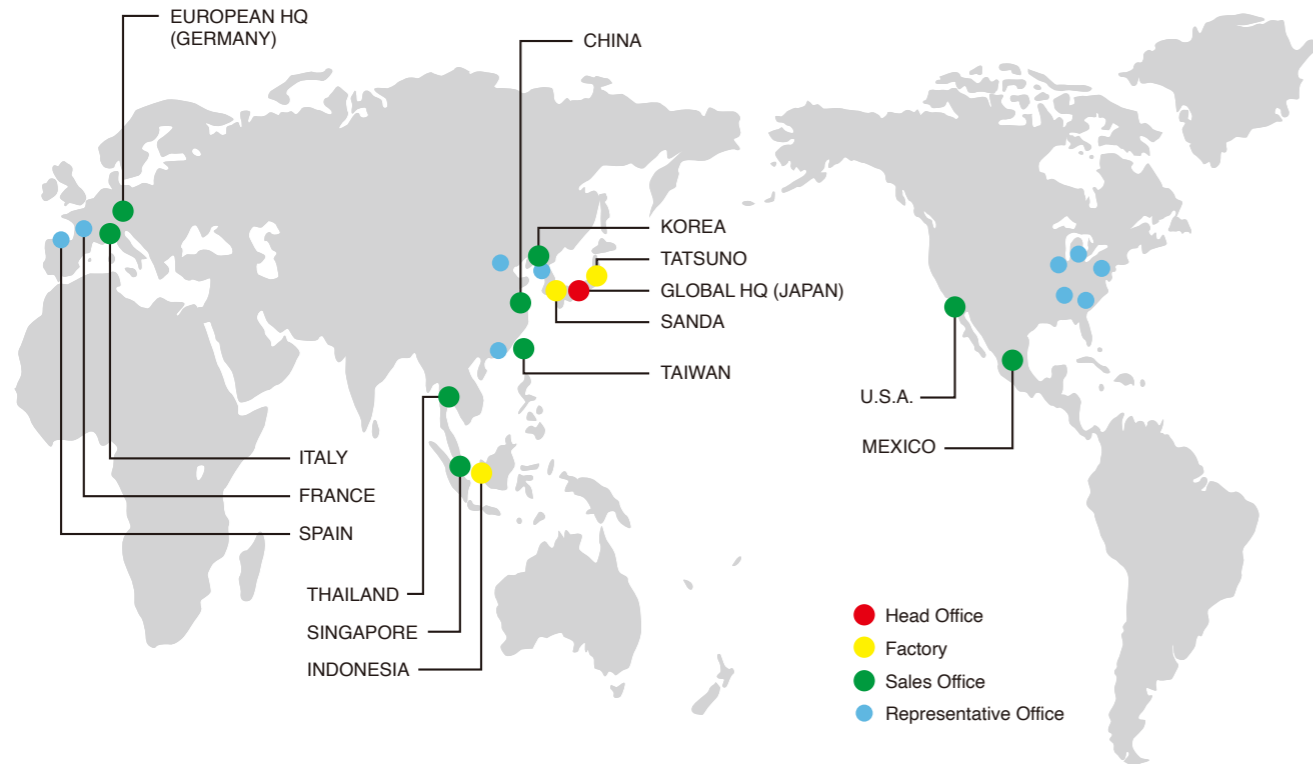
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⚠ CAUTION

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.

O-AI10C EN 2209

PATLITE®

Signal Beacons
SL / SK / SF

The Next Evolution of Beacons

Flashing Beacons SL
Standard light functions with flash settings

Rotating Beacons SK
Motorized rotation with efficient light output

Multi-Function Beacons SF
LED animations including simulated rotation

♻RoHS C€ ᶜ🆄🅻US 🅺🅲 EHC

#1 Ranked Globally
in Signaling Devices
*1 Research Info Global, 2017

www.patlite.com

We are Dedicated to Safety

SL Series **SK Series** **SF Series**

Our first product innovation dates back to 1955 when we developed the micro-motor. The creation of this revolutionary product led to the development of a wide-range of warning devices including our first flagship product, the SK-12 rotating beacon light. Since then, signal beacons have been adopted worldwide as a primary device for warning and status indication applications.

Our S-Series Beacons represents our long history of engineering safety equipment and our deep commitment to creating safer, more secure environments, worldwide.

❚ PATLITE Beacons

2020
SL / SK / SF series

1965
SK-12 model

Features

Reliable

❚ Clearer, brighter signaling with improved reflector design

❚ High IP rating

❚ High durability and longer product life

Convenient

❚ Easy mounting and installation

❚ Maintenance-free

❚ Selectable wiring options

Online Part Number Configurator

Visit our beacon configurator site to easily build a part number based on your requirements.

https://www.patlite.com/beacon_config/

SL series

	Cable Type			Screwless Terminal Type		Light Patterns		Video of light patterns:

LED life 100,000 hours *1	IP23	IP65 *2	IP66 KT type	Sound Pressure 88dB SL08: 86dB	Continuous	Blinking	Triple-flash

R : Red
Y : Amber
G : Green
B : Blue

SL08: Φ80mm   **SL10: Φ100mm**   **SL15: Φ150mm**

*1 Manufacturer specified value
*2 When used with rubber-gasket (Sold Separately)

Full Visibility

The newly developed Fresnel lens distributes ambient, uniform light from all surfaces of the globe, including the top.

Compared to competing products, the SL has a wider, light-emitting surface, with over 5 times the luminous intensity.

Light-emitting surface **69cd**
Light-emitting surface **6cd**

SL model RED
Competitors' products RED
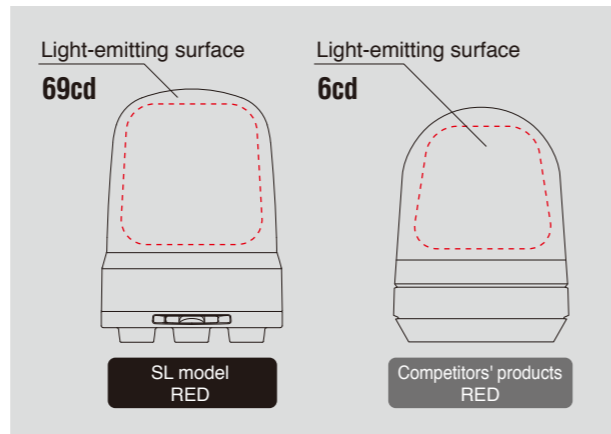
Easy Mounting

IP66 rating (KT type)

1. Screw in the mounting bracket
2. Connect wires to the push-in terminal block
3. Mount the body onto the mounting bracket
4. Lock into place

Mounting video

< Locked >
The position indicator shows when the unit is locked into place.
< Unlocked >

Application Examples

At this train station, a combination of flashing light and sound from the SL warns people at the platform of approaching trains.

The SL on this control panel alternates between continuous, blinking, and triple flashing lights to indicate normal, warning, and critical conditions respectively.

This SL is mounted on the ceiling of a store, indicating emergencies by flashing light, which is visible from a distance.
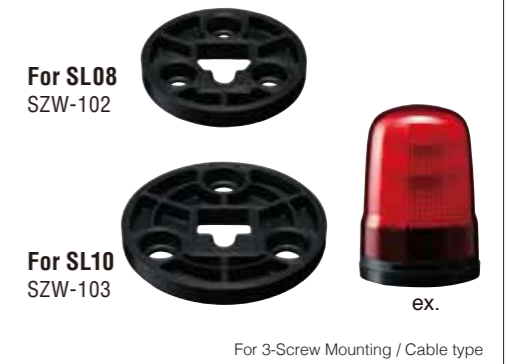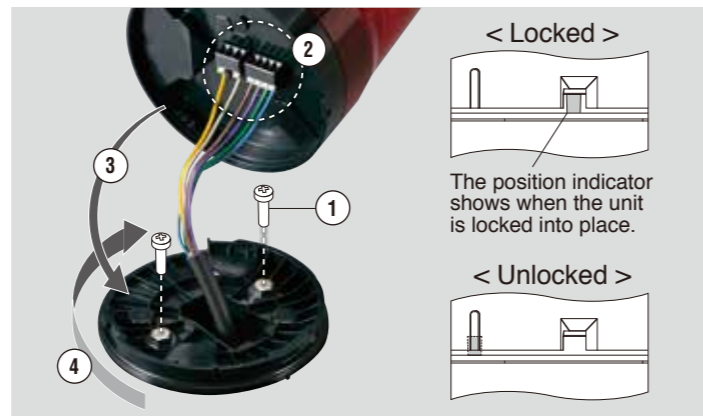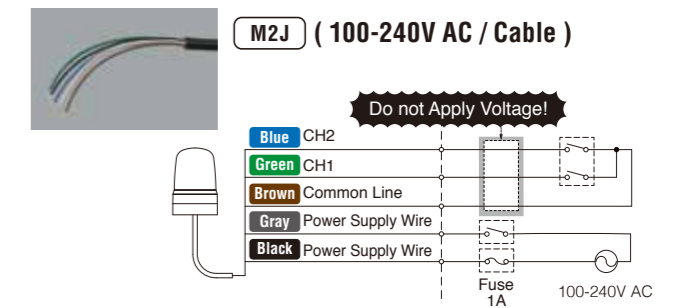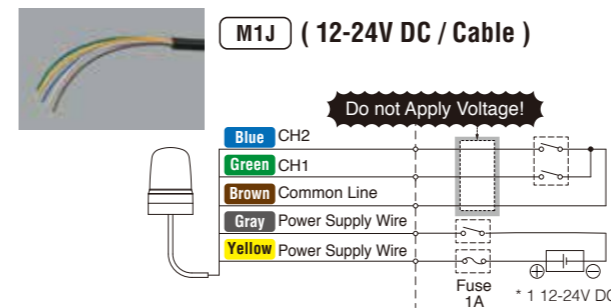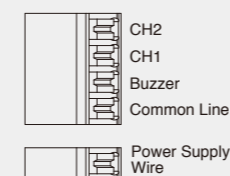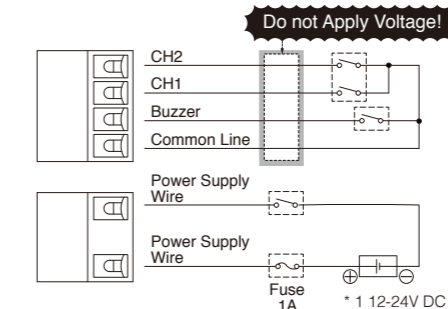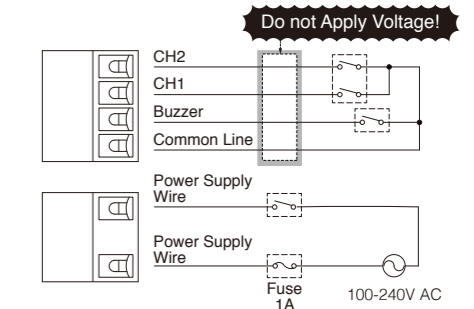
Model Number Configuration

SL10-M1KTB-R

Size
08 : Φ80mm
10 : Φ100mm
15 : Φ150mm

Rated Voltage
M1 : 12-24V DC
M2 : 100-240V AC

Buzzer
N: No Buzzer
B : With Buzzer*1

Mounting / Wiring
J : 3-Screw Mounting / Cable
KT : 2-Point Hole Type Mounting*2 / Terminal Block

LED Color
R : Red
Y : Amber
G : Green
B : Blue

*1 KT type only   *2 SL15: 3-point hole type mounting

Rubber Gasket (Sold Separately) IP65

For SL08 SZW-102
For SL10 SZW-103

ex.

For 3-Screw Mounting / Cable type

Wiring Diagrams

M1J (12-24V DC / Cable)

Do not Apply Voltage!
Blue CH2
Green CH1
Brown Common Line
Gray Power Supply Wire
Yellow Power Supply Wire
Fuse 1A   * 1 12-24V DC

M2J (100-240V AC / Cable)

Do not Apply Voltage!
Blue CH2
Green CH1
Brown Common Line
Gray Power Supply Wire
Black Power Supply Wire
Fuse 1A   100-240V AC

Terminal block arrangement

CH2
CH1
Buzzer
Common Line
Power Supply Wire

M1KT (12-24V DC / 2-Point Hole Type Mounting*2 - Terminal Block)

Do not Apply Voltage!
CH2
CH1
Buzzer
Common Line
Power Supply Wire
Power Supply Wire
Fuse 1A   * 1 12-24V DC

M2KT (120-240V AC / 2-Point Hole Type Mounting*2 - Terminal Block)

Do not Apply Voltage!
CH2
CH1
Buzzer
Common Line
Power Supply Wire
Power Supply Wire
Fuse 1A   100-240V AC

*1 Nonpolar. UL Class 2 specification
*2 SL15: 3-point hole type mounting

Rotating Beacons

SK series

LED life 100.000 hours *1 | IP23 | IP65 *2 | Sound Pressure 88dB | Rotating (120rpm)
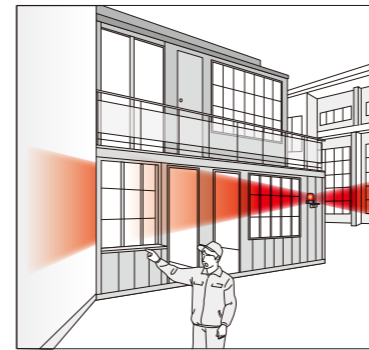
Video of light patterns:
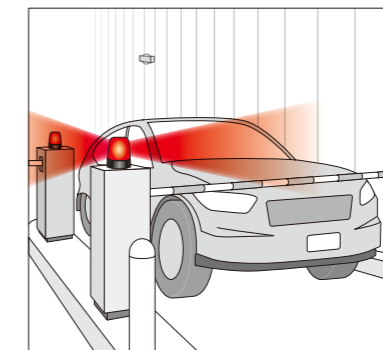
SKS: Φ80mm   SKH: Φ100mm   SKP: Φ150mm

R : Red
Y : Amber
G : Green
B : Blue

*1 Manufacturer specified value
*2 When used with rubber-gasket (Sold Separately)

Durable and Reliable

The SK is equipped with a brushless motor, which produces less heating than a conventional motor, and has a longer motor life.

Motor life
500%UP

20,000 hours

4,000 hours

Model using conventional motor

SKH model

Brushless Motor Construction

Electric circuit
Coil
Magnet
Shaft
Power Supply
Coil

Conventional Motor Construction

Power Supply
Brush
Magnet
Shaft
Commutator
Coil
Brush
Magnet

The steel ball bearings, located at the base of the reflector, are designed to greatly reduce wear over time and provides quiet reflector rotation.

Reflector

Steel ball
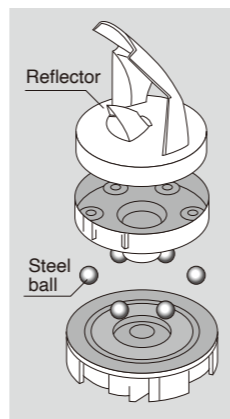
Higher Visibility

This newly developed dual-reflector efficiently distributes LED light, creating bright, even light output.

The light-emitting surface is designed to provide maximum visibility and effective visual signals.

5,000cd
Display area 70%
SKH model RED LED

3,000cd
Display area 50%
Competitors' products RED LED

Application Examples

The distinct light rotation of the SK makes it suitable for providing efficient visual signaling in emergency situations.

Due to the long-life LEDs in the SK, it is used in 24-hour parking structures where there is an absence of parking attendants, as an "always-on" warning light.

The SK installed on this AGV gives bright, rotating indication to its surroundings while in motion, to prevent accidents in case a person is stepping in the path of the vehicle.

Model Number Configuration

SKH-M1JB-R

Size
S : Φ80mm
H : Φ100mm
P : Φ150mm

Rated Voltage
M1 : 12-24V DC
M2 : 100-240V AC

LED Color
R : Red
Y : Amber
G : Green
B : Blue

Buzzer
(None) : No Buzzer
B : With Buzzer*1

Mounting / Wiring
J : Cable
T : Terminal Block*1

* 1 SKH type only

Rubber Gasket (Sold Separately)   IP65

For SKS
SZW-102

For SKH
SZW-103

ex.

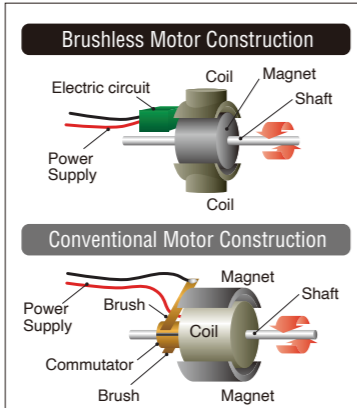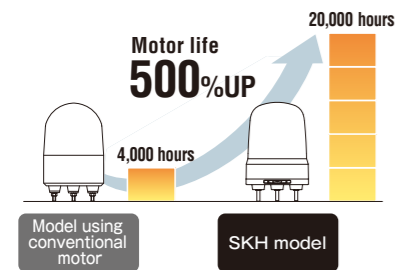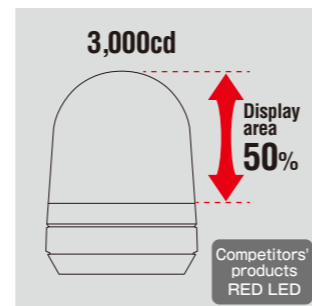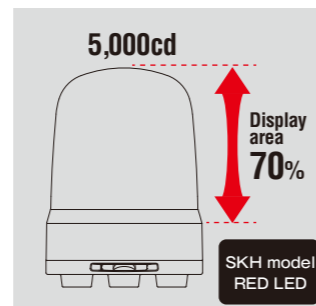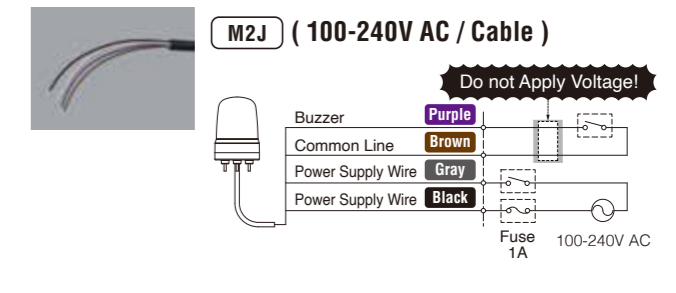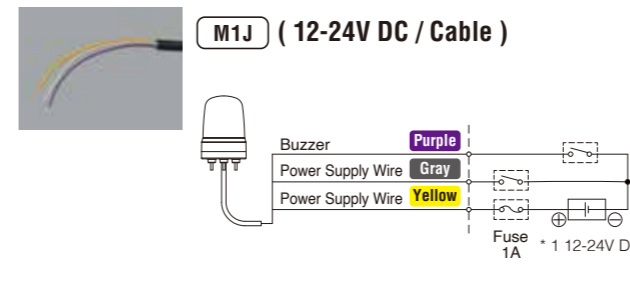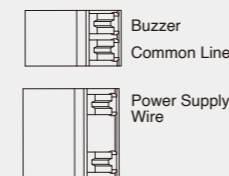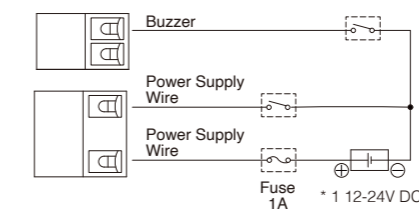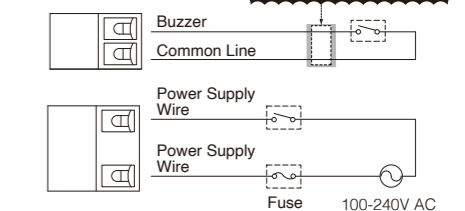For 3-Screw Mounting / Cable type

Wiring Diagrams

M1J (12-24V DC / Cable)

Buzzer — Purple
Power Supply Wire — Gray
Power Supply Wire — Yellow
Fuse 1A   * 1 12-24V DC

M2J (100-240V AC / Cable)

Do not Apply Voltage!

Buzzer — Purple
Common Line — Brown
Power Supply Wire — Gray
Power Supply Wire — Black
Fuse 1A   100-240V AC

Terminal block arrangement

Buzzer
Common Line

Power Supply Wire

M1T (12-24V DC / Terminal Block)

Buzzer

Power Supply Wire

Power Supply Wire

Fuse 1A   * 1 12-24V DC

M2T (120-240V AC / Terminal Block)

Do not Apply Voltage!

Buzzer
Common Line

Power Supply Wire

Power Supply Wire

Fuse 1A   100-240V AC

*1 Nonpolar. UL Class 2 specification

Multi-function Beacons

SF series

SF08: Φ80mm

**SF10: Φ100mm**

R : Red   Y : Amber

G : Green   B : Blue

*1 Manufacturer specified value
*2 When used with rubber-gasket (Sold Separately)

High Efficiency

This motorless, maintenance-free design produces LED animations including simulated rotation, flashing, and pulsing effects.

The SF is designed with PATLITE's newly developed multi-fresnel lens. This thin, rigid lens is capable of collecting and diffusing light more effectively than a conventional lens.

600cd

SF10 model RED

0m 100m 200m 300m

6cd

Competitors' products RED

0m 100m 200m 300m
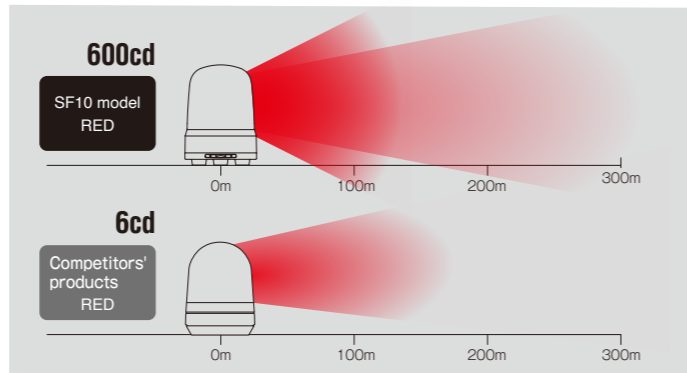
Wide Selection of Light Patterns

Select from 22 light patterns to indicate various statuses at your work field. The light pattern can easily be configured by adjusting the rotary switch and wiring channels.

[Examples of Usage]

● Reduce brightness during night time

● Adjust flash speeds depending on urgency

● Adjust rotation speeds depending on level of danger

wiring Rotary switch	CH1 OFF	CH2 OFF	CH1 ON	CH2 OFF	CH1 OFF	CH2 ON	CH1 ON	CH2 ON
0	Off		Rotating (120 rpm)		Triple-flash		Rotating (120 rpm)	
1	Off		Rotating (180 rpm)		Triple-flash		Rotating (180 rpm)	
2	Off		Triple-flash		Pulse pattern		Triple-flash	
3	Off		Rotating (60 rpm)		Rotation (120 rpm)		Rotating (180 rpm)	
4	Off		Single-flash		Double-flash		Triple-flash	
5	Triple-flash		Triple-flash		Triple-flash		Triple-flash	
6	Pulse pattern		Pulse pattern		Pulse pattern		Pulse pattern	
7	Rotating (60 rpm)		Rotating (60 rpm)		Rotating (60 rpm)		Rotating (60 rpm)	
8	Rotating (120 rpm)		Rotating (120 rpm)		Rotating (120 rpm)		Rotating (120 rpm)	
9	Rotating (180 rpm)		Rotating (180 rpm)		Rotating (180 rpm)		Rotating (180 rpm)	

Adjusting the Rotary Switch

= Dimmed   = Half-side emitted
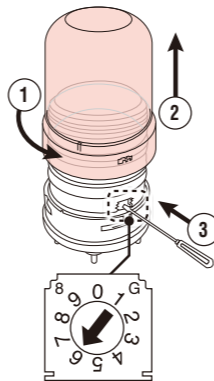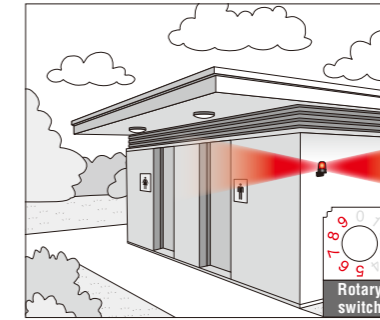
Application Examples
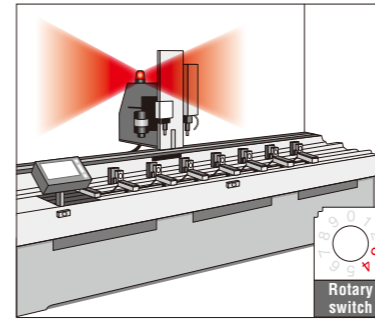
The SF is mounted on a fill machine to indicate multiple operation statuses using different rotation and flash settings. Select from 22 light patterns to provide unambiguous visual signals.

As the SF is powered on, visual signals will immediately begin to operate. This eliminates the need for a device to trigger operating functions for this type of application.
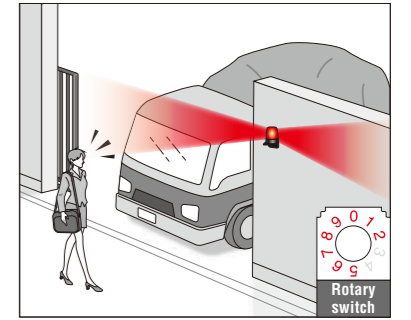
The SF is installed at a gate to warn pedestrians of large vehicles passing through. A timer switch is used to dim the light during the dark hours to avoid blinding drivers.

Rotary switch

Model Number Configuration

SF10-M1KTB-R

Size
08 : Φ80mm
10 : Φ100mm

Rated Voltage
M1 : 12-24V DC
M2 : 100-240V AC

Buzzer
N : No Buzzer
B : With Buzzer*1

Mounting / Wiring
J : 3-Screw Mounting / Cable
KT : 2-Point Hole Type Mounting / Terminal Block
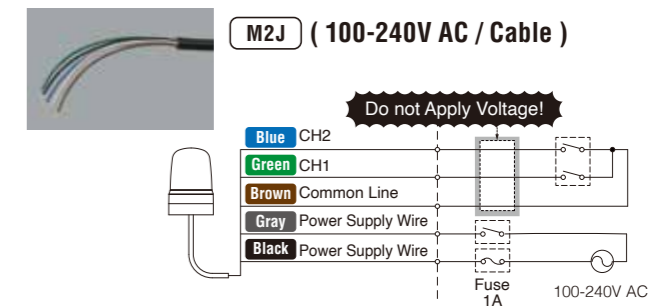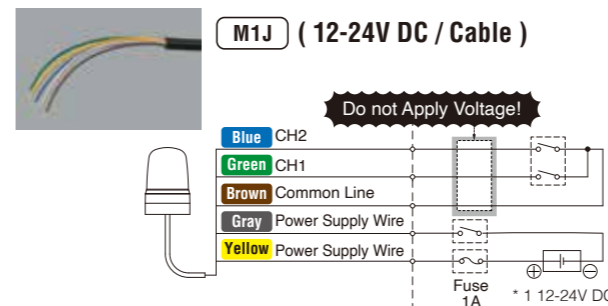
LED Color
R : Red
Y : Amber
G : Green
B : Blue

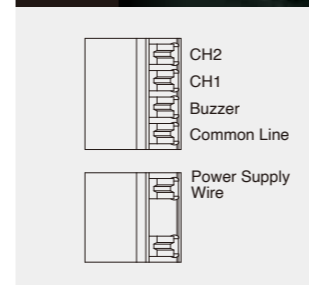* KT type only

Rubber Gasket (Sold Separately)   IP65

For SF08 SZW-102

For SF10 SZW-103

ex.

For 3-Screw Mounting / Cable type

Wiring Diagrams

M1J (12-24V DC / Cable)

Do not Apply Voltage!

Blue CH2
Green CH1
Brown Common Line
Gray Power Supply Wire
Yellow Power Supply Wire

Fuse 1A   * 1 12-24V DC

M2J (100-240V AC / Cable)

Do not Apply Voltage!

Blue CH2
Green CH1
Brown Common Line
Gray Power Supply Wire
Black Power Supply Wire

Fuse 1A   100-240V AC

Terminal block arrangement

CH2
CH1
Buzzer
Common Line

Power Supply Wire

*1 Nonpolar. UL Class 2 Specification

M1KT (12-24V DC / 2-Point Hole Type Mounting - Terminal Block)

Do not Apply Voltage!

CH2
CH1
Buzzer
Common Line

Power Supply Wire

Power Supply Wire

Fuse 1A   * 1 12-24V DC

M2KT (120-240V AC / 2-Point Hole Type Mounting - Terminal Block)

Do not Apply Voltage!

CH2
CH1
Buzzer
Common Line

Power Supply Wire

Power Supply Wire

Fuse 1A   100-240V AC
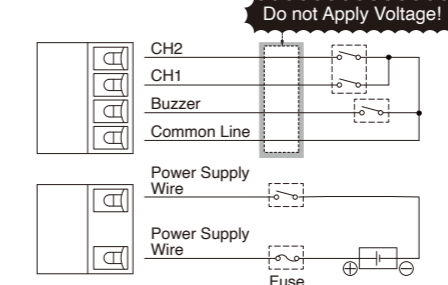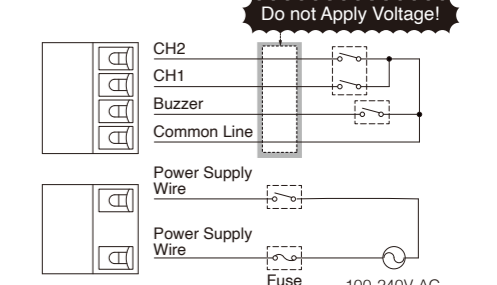
Optional Parts

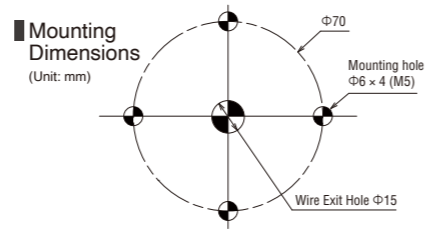## For Wall Mounting

Wall Mounting Bracket
(For Φ80mm / Φ100mm)
SZK-101
Material: PC
Compatible models: SKS * / SKH * / SL08・SL10 / SF08・SF10

* 3-screw types require rubber mounting.

Mounting Dimensions (Unit: mm)
Φ70
Mounting hole Φ6 × 4 (M5)
Wire Exit Hole Φ15

ex.

Wall Mounting Bracket
(For Φ80mm / Φ100mm)
SZK-102 **Resistant to Rust**
Material: SUS
Compatible models: SKS・SKH / SL08・SL10 / SF08・SF10

Mounting Dimensions (Unit: mm)
38 22 3 70
Mounting hole (Φ6 × 4)
Wire Exit Hole Φ15

Wall Mounting Bracket
(For Φ150mm)
SZK-103 **Resistant to Rust**
Material: SUS
Compatible models: SKP / SL15

Mounting Dimensions (Unit: mm)
30 60 130
Mounting hole Φ7 × 4 (M6)
Wire Exit Hole Φ15

ex.
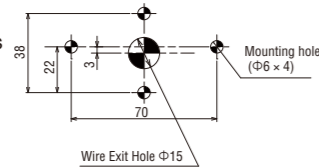
Wall Mounting Bracket Cover
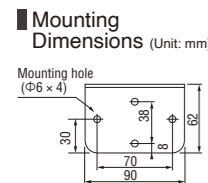SZK-104
Material: PC
Compatible models: SZK-102
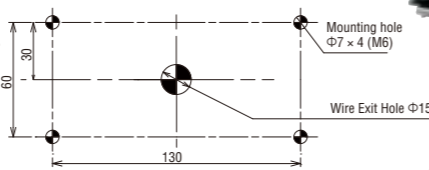
Wall Mounting Bracket Cover
SZK-105
Material: PC
Compatible models: SZK-103

ex.

Wall Mounting Bracket
SZ-007
Material: SECC
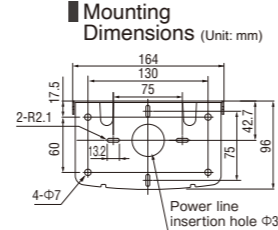Compatible models:
SKS・SKH
SF08-J
SF10-J
SL08-J
SL10-J

Mounting Dimensions (Unit: mm)
Mounting hole (Φ6 × 4)
30 38 8 62 70 90

Wall Mounting Bracket
SZ-008
Material: SECC
Compatible models:
SKS・SKH・SKP
SF08-J
SF10-J
SL08-J
SL10-J
SL15-J

Mounting Dimensions (Unit: mm)
Mounting hole (Φ7 × 4)
20 60 100 150 190
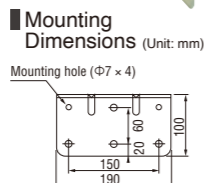
Wall Mounting Bracket
SZ-023
Material:
Bracket...SECC
Bracket Cover...AES
Compatible models:
SKS・SKH・SKP
SF08-J
SF10-J
SL08-J
SL10-J
SL15-J

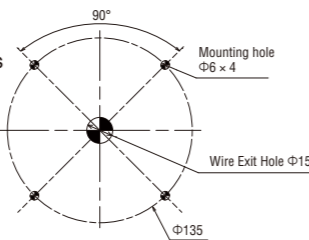Mounting Dimensions (Unit: mm)
164 130 75
2-R2.1 17.5 60 132 42.7 75 96
4-Φ7
Power line insertion hole Φ35

For Ceiling Mounting

Circular Bracket
(For Φ100mm)
SZW-101
Material: SPCE
Compatible models: SKH / SL10 / SF10

Mounting Dimensions (Unit: mm)
90°
Mounting hole Φ6 × 4
Wire Exit Hole Φ15
Φ135

ex.1   ex.2

Rubber Mounting   Using this rubber mounting, IP23 models become IP65.

Rubber Gasket
(For Φ80mm)
SZW-102
Material: Silicon
Compatible models: SKS / SL08-J / SF08-J
3-Screw Mounting Type

Rubber Gasket
(For Φ100mm)
SZW-103
Material: Silicon
Compatible models: SKH / SL10-J / SF10-J
3-Screw Mounting Type

ex.

For Pole Mounting

Circular Bracket
(For Φ100mm)
SZP-101
Material: PC
Compatible models*¹: SKH / SL10 / SF10

*1 3-screw types require rubber mounting.

Aluminum Pole
N type (non-threaded)

100mm	POLE22-0100AN
300mm	POLE22-0300AN
500mm*²	POLE22-0500AN
800mm*²	POLE22-0800AN
1000mm*²	POLE22-1000AN

*2 Compatible brackets: SZK-001U, SZP-002U, SZ-010

Aluminum Pole
T type (threaded)

100mm	POLE22-0100AT
300mm	POLE22-0300AT
500mm	POLE22-0500AT
800mm	POLE22-0800AT
1000mm	POLE22-1000AT

Aluminum Pole Bracket
(Compatible with N type)

SZP-001W
SZP-003W
SZP-002U
SZQ-001W

Aluminum Pole Bracket
(Compatible with T type)

SZL-001

Aluminum Pole Bracket
(Compatible with N and T types)

SZK-001U
SZ-010

ex.

Replacement Parts

Compatible with all SL, SK, and SF Models

		SKS/SF08/SL08 Φ80mm		SKH*³/SF10/SL10 Φ100mm		SKP*⁴/SL15 Φ150mm	
Globe		Red	GA0000029-F1	Red	GA0000033-F1	Red	GA0000037-F1
		Amber	GA0000030-F1	Amber	GA0000034-F1	Amber	GA0000038-F1
		Green	GA0000031-F1	Green	GA0000035-F1	Green	GA0000039-F1
		Blue	GA0000032-F1	Blue	GA0000036-F1	Blue	GA0000040-F1
Waterproof ring			GA0000794-F1		GA0000795-F1		GA0000796-F1

For KT Type (2-point or 3-point hole type mounting / terminal block)

		SF08/SL08 φ80mm	SF10/SL10 φ100mm	SL15 φ150mm
Mounting bracket With : waterproof ring waterproof sheet		GA0000512-F1	GA0000513-F1	GA0000514-F1
Waterproof sheet		GA0000498-F1	GA0000499-F1	GA0000500-F1

* 3 Not compatible with SKH-A / SKH-EA.   * 4 Not compatible with SKP-A.