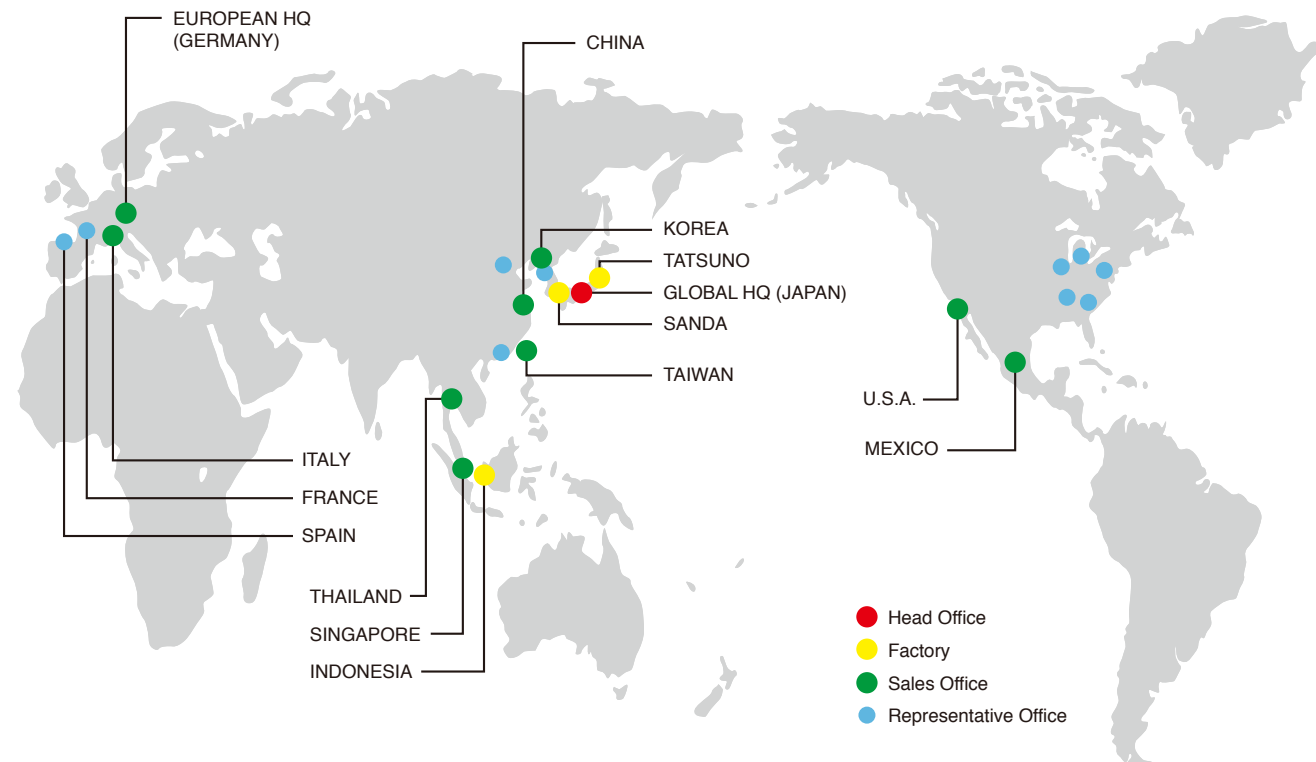


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CAUTION

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-A110B EN 2001

PATLITE®

Signal Beacons

SL / SK / SF

New

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

#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

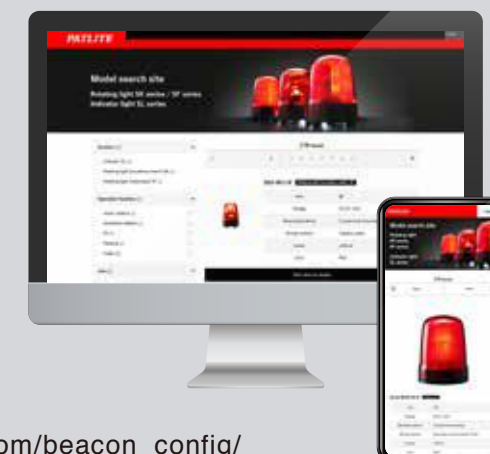
- Easy mounting and installation
- Maintenance-free
- Selectable wiring options

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/



Flashing Beacons

SL series

Cable Type

Screwless Terminal Type

Light Patterns

Video of light patterns:

LED life 100,000 hours^{*1}

IP23

IP65^{*2}

IP66

Sound Pressure 88dB

KT type

SL08: 86dB

Continuous

Blinking

Triple-flash



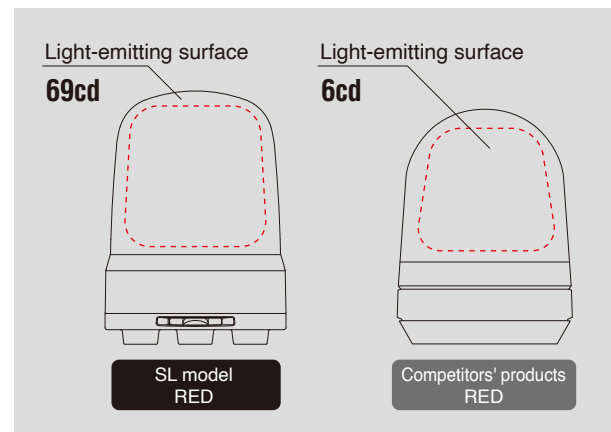
*1 Manufacturer specified value
*2 When used with rubber-gasket (Sold Separately)

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.

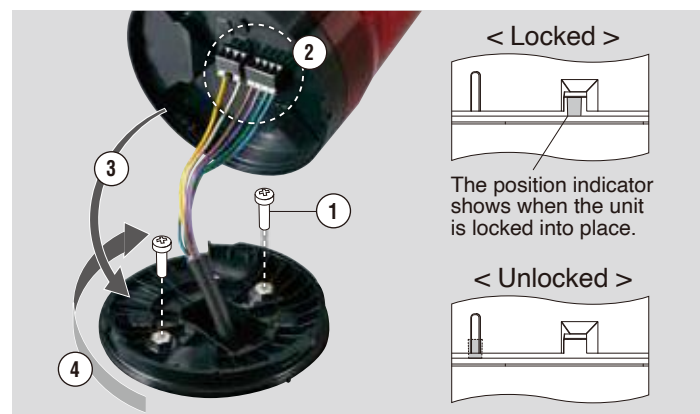


Easy Mounting

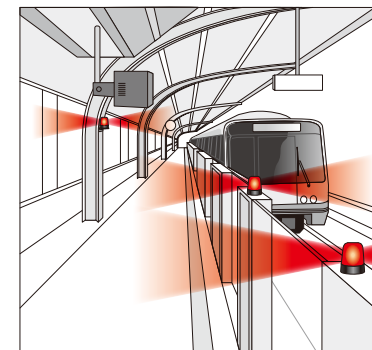
IP66 rating (KT type)

- 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

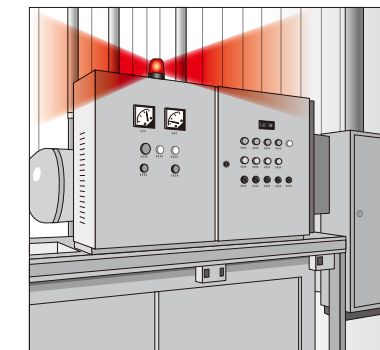
Mounting video



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^{*1}

Rated Voltage

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

LED Color

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

Mounting / Wiring / Buzzer

JN : 3-Screw Mounting / Cable / No Buzzer
KTN : 2-Point Hole Type Mounting^{*2} / Terminal Block / No Buzzer
KTB : 2-Point Hole Type Mounting / Terminal Block / With Buzzer

*1 JN or KTN type only *2 SL15: 3-point hole type mounting

Rubber Gasket (Sold Separately) IP65

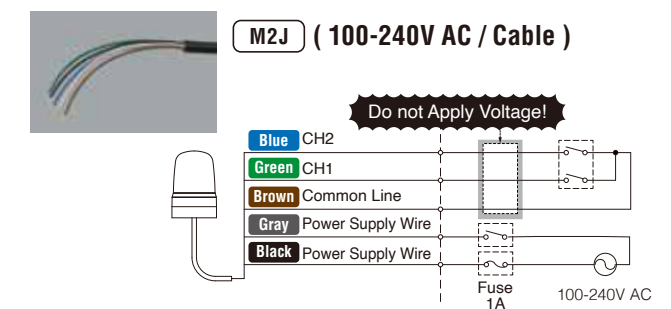
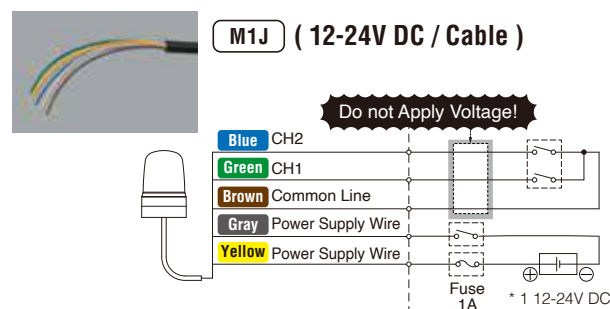
For SL08
SZW-102

For SL10
SZW-103

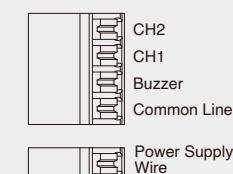


For 3-Screw Mounting / Cable type

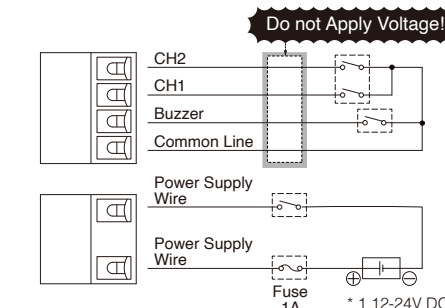
Wiring Diagrams



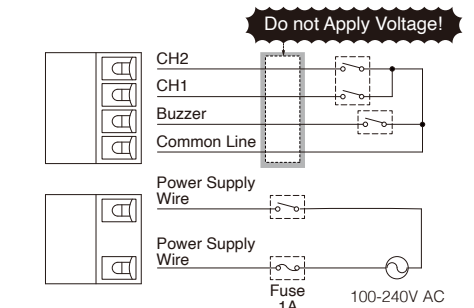
Terminal block arrangement



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



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



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

Rotating Beacons

SK series

LED life
100,000
hours*1

IP23

IP65²

Sound
Pressure
88dB

Rotating
(120rpm)

Video of
light patterns:



SKS: Φ80mm



SKH: Φ100mm



SKP: Φ150mm



R : Red



Y : Amber



G : Green

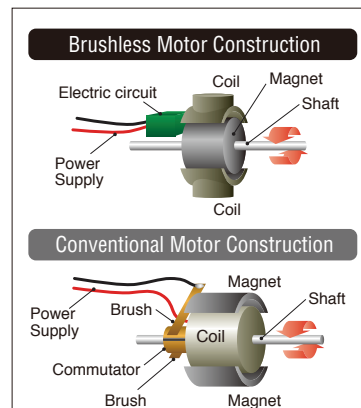
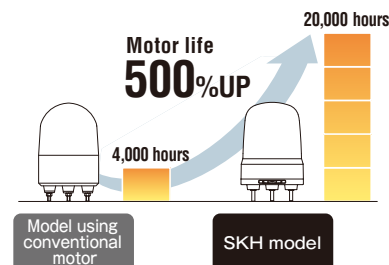


B : Blue

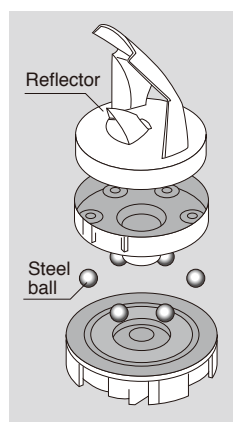
*1 Manufacturer specified value
*2 When used with rubber-gasket (Sold Separately)

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.



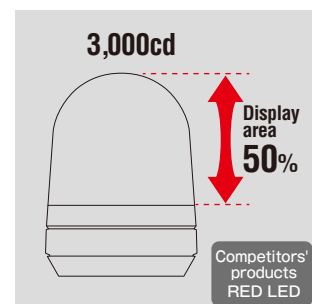
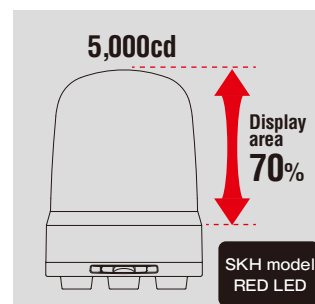
The steel ball bearings, located at the base of the reflector, are designed to greatly reduce wear over time and provides quiet reflector rotation.



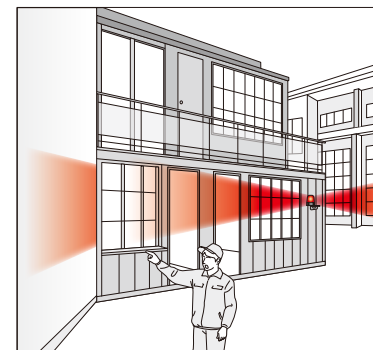
Higher Visibility

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

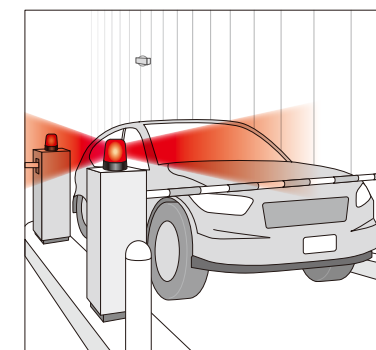
The light-emitting surface is designed to provide maximum visibility and effective visual signals.



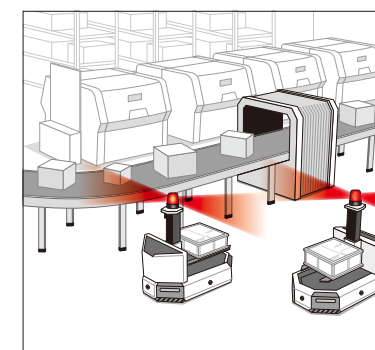
Application Examples



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

LED Color

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

Buzzer

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

Rated Voltage

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

Mounting / Wiring

J : Cable
T : Terminal Block*1

*1 SKH type only

Rubber Gasket (Sold Separately)

IP65

For SKS
SZW-102



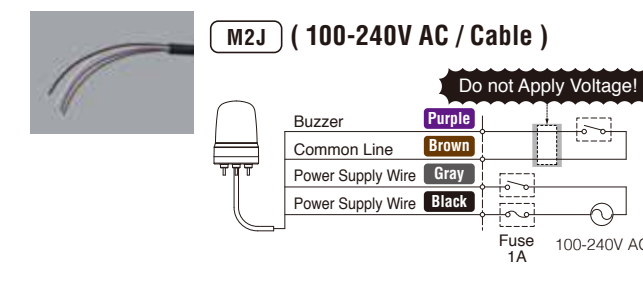
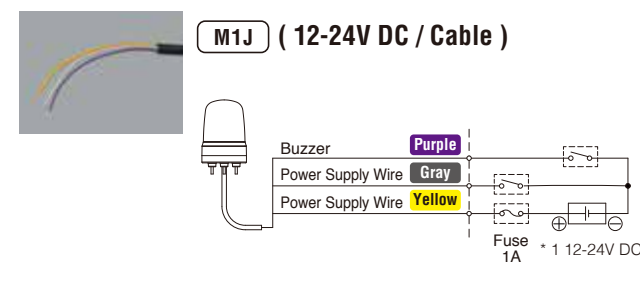
For SKH
SZW-103



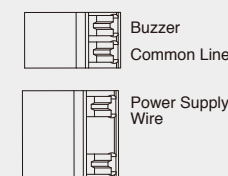
ex.

For 3-Screw Mounting / Cable type

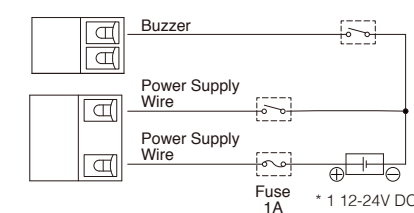
Wiring Diagrams



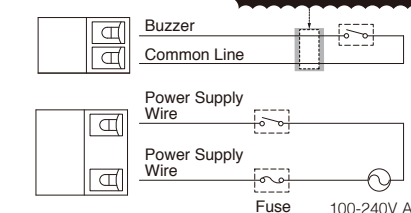
Terminal block arrangement



M1T (12-24V DC / Terminal Block)



M2T (120-240V AC / Terminal Block)



*1 Nonpolar. UL Class 2 specification

Multi-function Beacons

SF series



SF08: Φ80mm



SF10: Φ100mm



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

LED life
100,000
hours^{*1}

Cable Type
IP23 IP65^{*2} IP66
KT type

Screwless
Terminal Type
Sound
Pressure
88dB
SF08: 86dB

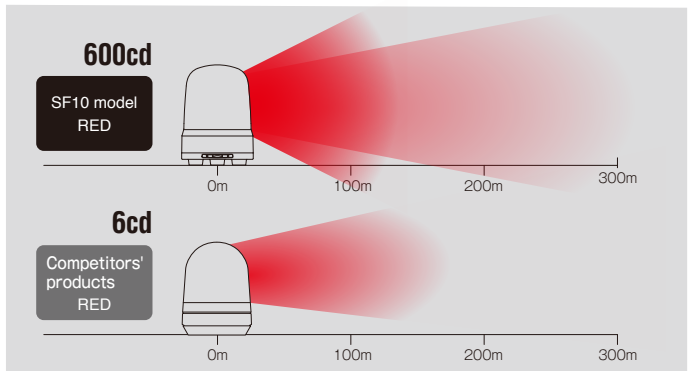
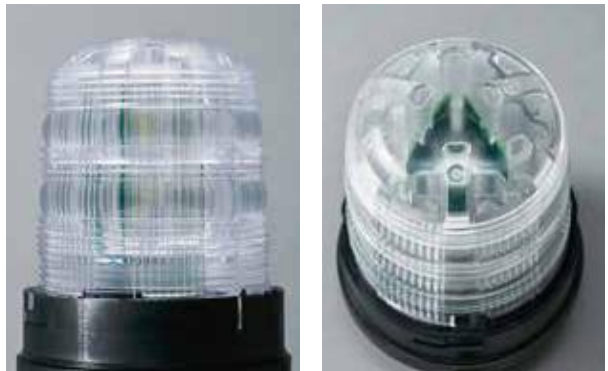
22 Light Patterns
Rotating Flash Pulse

Video of
light patterns:

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.



Wide Selection of Light Patterns

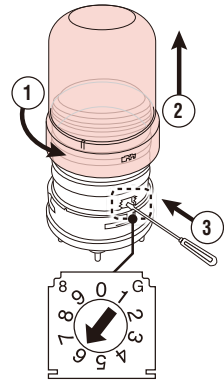
Select from 22 light patterns to indicate various statuses at your work field. The light pattern can easily be configured by adjusting the rotary switch and wiring channels.

- [Examples of Usage]
- Reduce brightness during night time
 - Adjust flash speeds depending on urgency
 - Adjust rotation speeds depending on level of danger

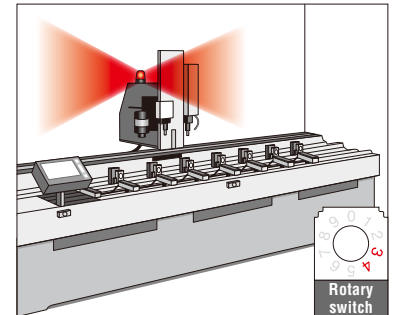
Rotary switch	wiring	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
		OFF	OFF	ON	OFF	OFF	ON	ON	ON
0		Off		Rotating (120 rpm)		Triple-flash		Rotating (120 rpm)	
1		Off		Rotating (180 rpm)		Triple-flash		Rotating (180 rpm)	
2		Off		Triple-flash		Pulse pattern		Triple-flash	
3		Off		Rotating (60 rpm)		Rotation (120 rpm)		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)	

= Dimmed = Half-side emitted

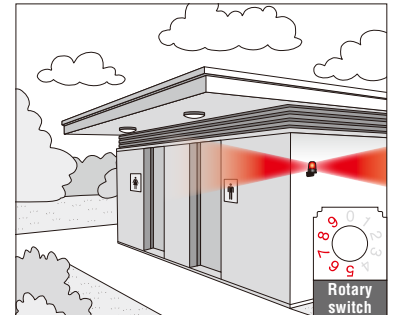
Adjusting the Rotary Switch



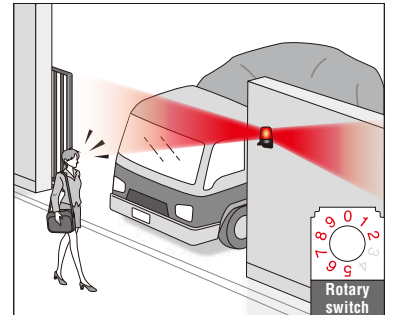
Application Examples



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.

Model Number Configuration

SF10-M1KTB-R

Size
08 : Φ80mm
10 : Φ100mm

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

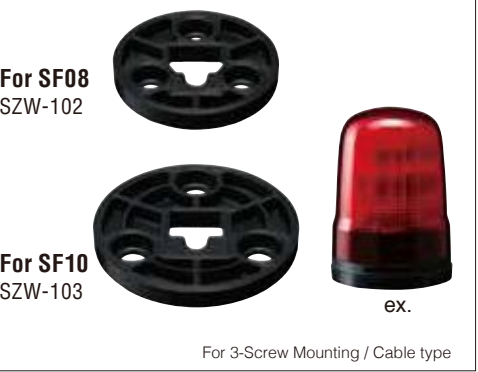
Buzzer
N : No Buzzer
B : With Buzzer^{*1}

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

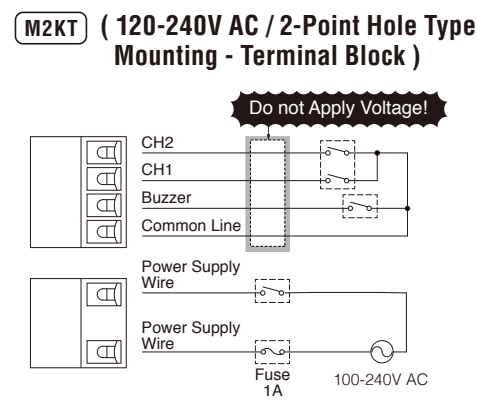
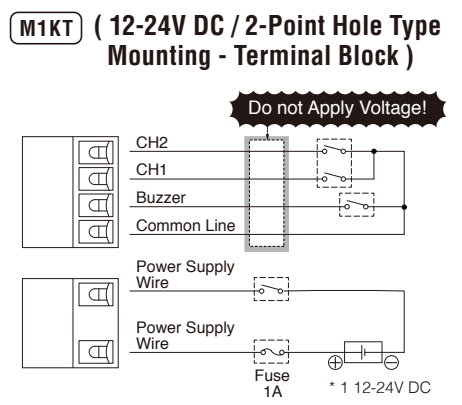
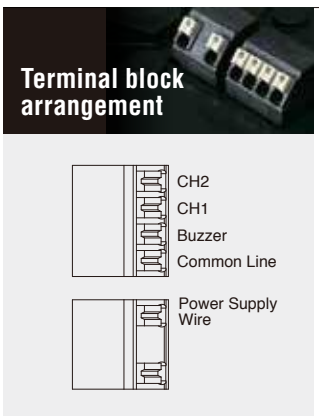
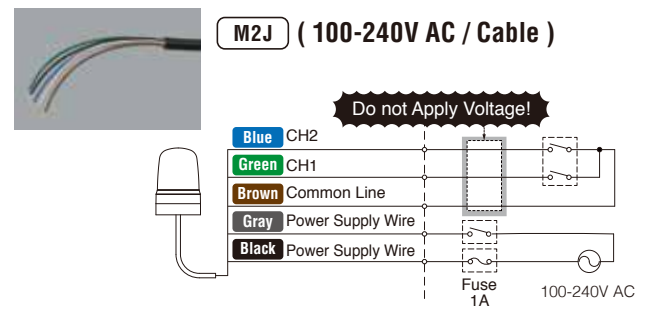
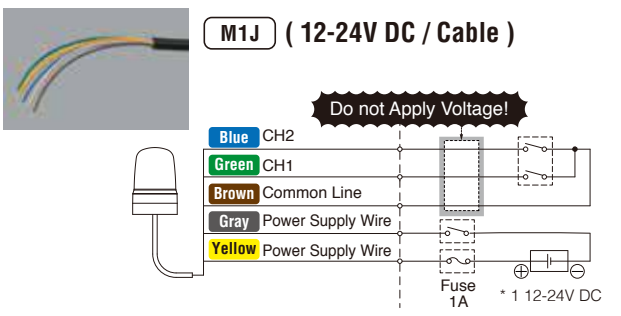
LED Color
R : Red
Y : Amber
G : Green
B : Blue

^{*1} KT type only

Rubber Gasket (Sold Separately) IP65



Wiring Diagrams



^{*1} Nonpolar. UL Class 2 Specification

Optional Parts

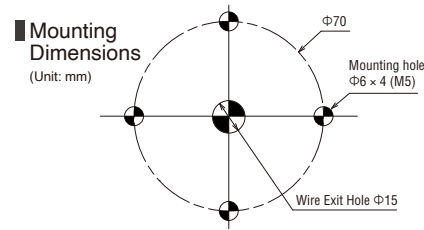
For Wall Mounting



Wall Mounting Bracket (For $\Phi 80\text{mm}$ / $\Phi 100\text{mm}$) SZK-101

Material: PC
Compatible models: SKS * / SKH * / SL08-SL10 / SF08-SF10

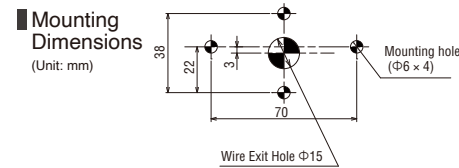
* 3-screw types require rubber mounting.



Wall Mounting Bracket (For $\Phi 80\text{mm}$ / $\Phi 100\text{mm}$) SZK-102

Material: SUS
Compatible models: SKS-SKH / SL08-SL10 / SF08-SF10

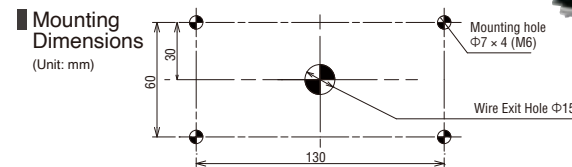
Resistant to Rust



Wall Mounting Bracket (For $\Phi 150\text{mm}$) SZK-103

Material: SUS
Compatible models: SKP / SL15

Resistant to Rust



Wall Mounting Bracket Cover SZK-104

Material: PC
Compatible models: SZK-102



Wall Mounting Bracket Cover SZK-105

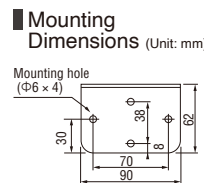
Material: PC
Compatible models: SZK-103



Wall Mounting Bracket SZ-007

Material: SECC

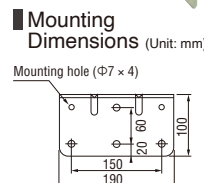
Compatible models:
SKS-SKH
SF08-J
SF10-J
SL08-J
SL10-J



Wall Mounting Bracket SZ-008

Material: SECC

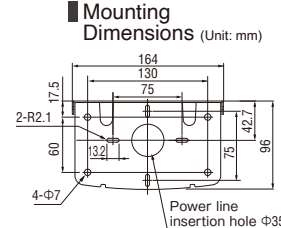
Compatible models:
SKS-SKH-SKP
SF08-J
SF10-J
SL08-J
SL10-J
SL15-J



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

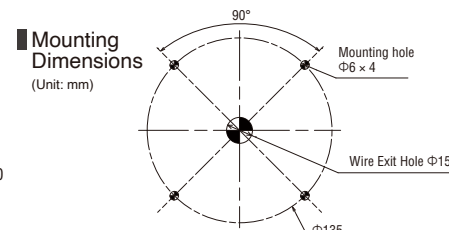


For Ceiling Mounting



Circular Bracket (For $\Phi 100\text{mm}$) SZW-101

Material: SPCE
Compatible models: SKH / SL10 / SF10



Rubber Mounting

Using this rubber mounting, IP23 models become IP65.



Rubber Gasket (For $\Phi 80\text{mm}$) SZW-102

Material: Silicon
Compatible models: SKS / SL08-J / SF08-J
3-Screw Mounting Type



Rubber Gasket (For $\Phi 100\text{mm}$) SZW-103

Material: Silicon
Compatible models: SKH / SL10-J / SF10-J
3-Screw Mounting Type



For Pole Mounting



Circular Bracket (For $\Phi 100\text{mm}$) SZP-101

Material: PC
Compatible models*: 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 Bracket (Compatible with N type)



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 T type)



Aluminum Pole Bracket (Compatible with N and T types)



Replacement Parts

Compatible with all SL, SK, and SF Models

	SKS/SF08/SL08 $\Phi 80\text{mm}$	SKH*/SF10/SL10 $\Phi 100\text{mm}$	SKP*/SL15 $\Phi 150\text{mm}$
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 $\Phi 80\text{mm}$	SF10/SL10 $\Phi 100\text{mm}$	SL15 $\Phi 150\text{mm}$
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.