Signal Light

Page number	Page 99	Page 100	Page 101					Page 102				
Model Name	Small LED Signal Light	Multi-color LED Signal Light	Small LED Signal Light									
Model	**NE**	**NE-M1-CL7**	**PES-A**					**PEW-A**				
Product image		Multicolor										
Rated Voltage	24V DC	12 - 24V DC	24V AC/DC	100V AC	120V AC	200V AC	230V AC	24V AC/DC	100V AC	120V AC	200V AC	230V AC
Size (mm)	φ 57	φ 57	φ 82					φ 82				
IP	65	66/67	23 (55 when mount rubber –sold separately– is used)					54 (23 when the cord sticks out at the side)				
Buzzer sound pressure in dB (at a distance of 1m)								70 - 85				
Body	ABS	ABS	ABS					ABS				
Globe	Polycarbonate	Polycarbonate	AS					AS				
Light Source	LED	LED	LED					LED				
Lighting, flashing pattern	Lighting	Lighting	Lighting, flashing (in 3 stages)					Lighting, flashing (in 3 stages)				
Terminal Block												
Open collector			NPN					NPN				
CE Marking	O	O	O					O				
RoHS	O	O			O					O		
UL Standard		O	O		O		O	O		O		O

Page number	Page 109			Page 109		
Model Name	Medium LED Flash Signal Light			Large LED Flash Signal Light		
Model	**XPE**			**XME**		
Product image						
Rated Voltage	12V DC	24V DC	100/200/230V AC	12V DC	24V DC	100/200/230V AC
Size (mm)	φ 162			φ 187		
IP	23			23		
Buzzer sound pressure in dB (at a distance of 1m)						
Body	AES			SPCD		
Globe	AS			Polycarbonate		
Light Source	LED			LED		
Lighting, flashing pattern	Triple flash			Triple flash		
Terminal Block						
Open collector						
CE Marking	O	O	O	O	O	O
RoHS	O	O	O	O	O	O
UL Standard						

Page number	Page 104	Page 105		Page 106				Page 108
Model Name	Small LED Signal Light	Small LED Flash Signal Light						Battery-powered Flash Signal Light
Model	**KHE**	**PSE**		**LFH**				**PFH-BT**
Product image								
Rated Voltage	24V DC	12/24V DC	100 - 230V AC	12V DC	24V DC	48V DC	100/120/200/230V AC	AA battery cell x 4
Size (mm)	φ 100	φ 82		φ 100				φ 100
IP	23 (55 when mount rubber is used–sold separately)	23 (55 when mount rubber is used–sold separately)		66				55
Buzzer sound pressure in dB (at a distance of 1m)								
Body	ABS	ABS		ABS				Polycarbonate
Globe	Polycarbonate	Polycarbonate		Polycarbonate				Polycarbonate
Light Source	LED	LED		LED				LED
Lighting, flashing pattern	Flashing, chase rotation, strobe	Triple flash		Triple flash				Double flash/Single flash
Terminal Block								
Open collector								
CE Marking	○	○		○ (excluding LFH-S)		○ (excluding LFH-S)		○
RoHS	○	○		○				○
UL Standard	○			○ (excluding LFH-S)				

Page number	Page 110			Page 111		Page 112	
Model Name	Medium LED Chase Light/Flashing Signal Light			Large LED Chase Light		Small Signal Light	
Model	**KPE-A**			**KLE**		**PS**	
Product image							
Rated Voltage	100V AC	220V AC	24V AC/DC	100V AC	200V AC	12V AC/DC	24V AC/DC
Size (mm)	φ 162			φ 162		φ 82	
IP	23			23		23 (55 when mount rubber is used–sold separately)	
Buzzer sound pressure in dB (at a distance of 1m)							
Body	AES			SPCD/SUS304		ABS	
Globe	AS			AS		Polycarbonate	
Light Source	LED			LED		Bulb	
Lighting, flashing pattern	Lighting, flashing (variable)			Chase light (variable)		Lighting	
Terminal Block							
Open collector							
CE Marking							
RoHS							
UL Standard							

* For specifications, see the product page.

Small LED Signal Light

NE

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Colors	Red, Amber, Green, Blue, White
Globe	Polycarbonate resin with superb shock resistance and heat resistance.

The NE Series features a compact design with long-life, zero maintenance LEDs. The NE signal lights are easy to install and carries an IP65 rating with high vibration resistance for operation in wet environments.
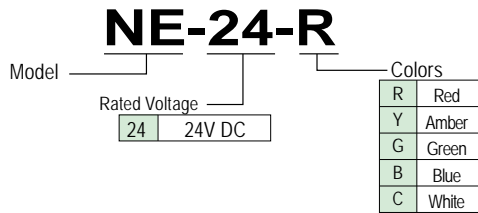
- Unique lens cut for enhanced visibility from all angles
- Built-in terminal block for easy wiring
- Very low power consumption
- IP65 rating - dust and water resistant

IP65 RoHS CE 57ϕ

Specifications

Model	Rated Voltage	Power consumption (maximum)	Operating Temperature Range	Mounting location	Protection Rating	Mass
NE-24-R	24V DC	0.63W	-30 °C - +50 °C (90%RH or less)	Indoors only (specific circuit board)	IP65	55g
NE-24-Y		0.63W				
NE-24-G		0.56W				
NE-24-B		0.53W				
NE-24-C		0.45W				

Model Code

NE-24-R

Model

Rated Voltage

24	24V DC

Colors

R	Red
Y	Amber
G	Green
B	Blue
C	White

Dimensions (mm)

ø57

Globe

Body

(47.5)

61

13.5

ø53

Cord exit hole
M16 x P1.5
(For resin cable ground)

2- ϕ 4.5

Cord exit hole
M16 x P1.5
(For resin cable ground)

Mounting Hole
Mounting holes (for 2 places) are in a stamping structure. Please stamp out the holes with a puncher.
Thickness of resin: 2mm
Thickness of packing: 1 mm

35.5

Base (with waterproof packing removed)

Cord exit hole

Power supply terminal
(M3 terminal block with square washer)

ϕ 13.3

Recommended cable ground
LAPPKABEL Corporation : 53111010+53119010

Upper surface of body (with glove removed)

Wiring Diagram

External Contact

Power supply voltage (non-polar)

For protective external contact
Fuse 1A

sensormatic SPECIALIST&SOLUTIONS

Multi-color LED Signal Light

NE-M1-CL7

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Multi-color light

Red   Amber   Green

Blue   Light blue   Purple

White

Colors	Red, Amber, Green, Blue, Aqua, Purple, White
Globe	Polycarbonate resin with superb shock resistance and heat resistance.

The NE-CL7 Series features a compact design with multi-color, 7 color LEDs. The NE-CL7 signal lights is easy to install and carries an IP66, and 67 ratings with high vibration resistance, ideal for sanitary cleaning applications.

- Clear, frosted lens for reducing false indication and even light distribution
- Very low power consumption
- IP66, 67 rating - dust and water resistant
- Jacketed-cable line out
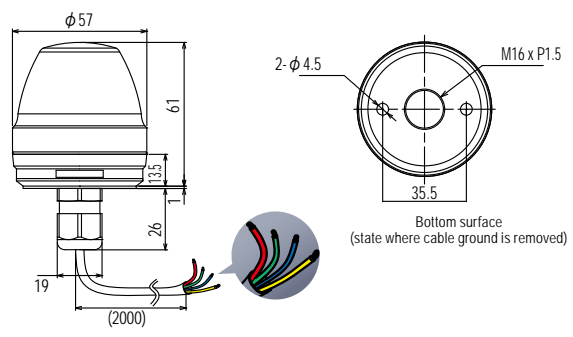
IP66   IP67   RoHS   UL   CE   57φ

Specifications

Model	Rated Voltage	Power consumption (Standard)	Operating Temperature Range	Mounting location	Protection Rating	Mass
NE-M1-CL7+B0953	12 - 24V DC	1.35W	-20 °C - +50 °C (90%RH or less)	Indoors (specific circuit board)	IP66/IP67	150g

Dimensions (mm)
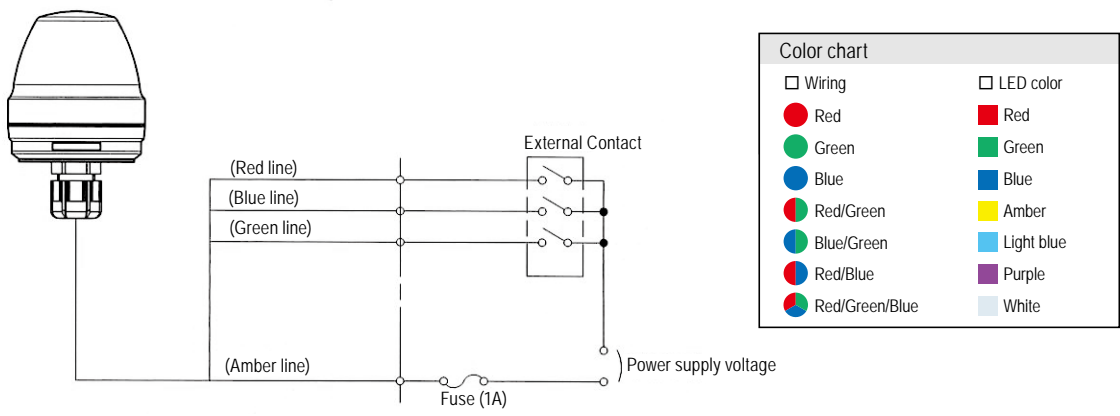
φ57
61
13.5
1
26
19
(2000)

2-φ4.5   M16 x P1.5
35.5
Bottom surface
(state where cable ground is removed)

Wiring Diagram

(Red line)
(Blue line)
(Green line)

External Contact

(Amber line)

Fuse (1A)

Power supply voltage

Color chart	
☐ Wiring	☐ LED color
● Red	▮ Red
● Green	▮ Green
● Blue	▮ Blue
● Red/Green	▮ Amber
● Blue/Green	▮ Light blue
● Red/Blue	▮ Purple
● Red/Green/Blue	▮ White

PES-A

Network

Signal Tower

Signal Light

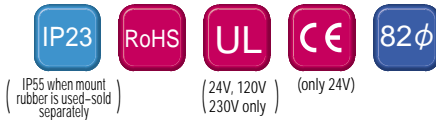Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Colors	Red, Amber, Green, Blue
Globe	The material is AS resin, which is translucent and highly weather resistant.

The PES Series features an 82mm diameter, maintenance-free LEDs, and comes in multiple voltage types
· Triple-reflection system for enhanced visibility and low power consumption
· 3 flashing patterns - 60/120/180 FPM with toggle switch
· Maintenance-free, high efficiency LEDs
· Outdoor weather resistant with effective light emission
· IP55 with gasket (SZ-210); IP23 without gasket
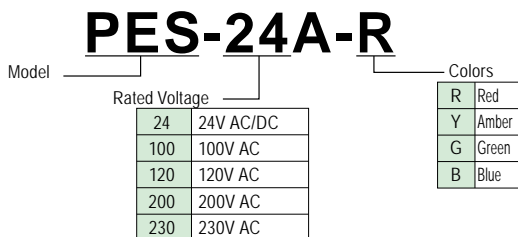· Available Colors: Red, Amber, Green, Blue

IP23
(IP55 when mount rubber is used–sold separately)
RoHS
UL
24V, 120V 230V only
CE
(only 24V)
82φ

<IP55 compliant range when using mounting rubber>

Specifications

Model	Colors	Rated Voltage	Inrush Current	Power Consumption	Number of flashes	Mass
PES-24A	-R/ -Y	24V AC/DC	2.5A	1.5W	High-speed approximately 180/minute Medium-speed approximately 120/minute Low-speed of approximately 60/minute (Change with internal Switch)	0.24kg
	-G/ -B					
PES-100A	-R/ -Y	100V AC	1.0A	3.3W		0.43kg
	-G/ -B					
PES-120A	-R/-Y	120V AC	1.0A	3.5W		
	-G/-B					
PES-200A	-R/ -Y	200V AC	0.5A	3.2W		
	-G/ -B					
PES-230A	-R/-Y	230V AC	0.5A	3.8W		
	-G/-B					

* Products with specifications for 120V or 230V have not been manufactured for domestic use in Japan, thus if you want to use them in Japan, please use products with specifications for 100V or 200V.

Model Code

PES-24A-R
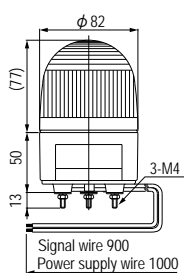
Model

Rated Voltage

24	24V AC/DC
100	100V AC
120	120V AC
200	200V AC
230	230V AC

Colors

R	Red
Y	Amber
G	Green
B	Blue

Optional Parts For details, see pages 182 to 187.

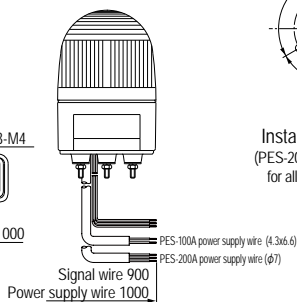| Optional Parts	Model
Mount rubber	SZ-210
Wallmount Bracket	SZ-008
Wallmount Bracket	SZ-007
Wallmount Bracket	SZ-023

* When using a bracket for mounting on the wall-face, the IP value will still be 23, even when using the mount rubber.
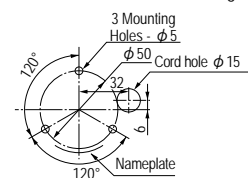
Dimensions (mm)

PES-24A
PES-120A
PES-230A

PES-100A
PES-200A

φ82
(77)
50
13
3-M4
Signal wire 900
Power supply wire 1000

Signal wire 900
Power supply wire 1000

PES-100A power supply wire (4.3x6.6)
PES-200A power supply wire (φ7)

Installation Dimension Drawings

3 Mounting Holes - φ5
φ50
Cord hole φ15
120°
32
6
Nameplate
120°

Installation Dimension Drawings
(PES-200A type, when using mount rubbers for all models)

3 Mounting Holes - φ5
22
φ50
120°
10
120°
Cord hole φ15
Nameplate

Wiring Diagram

Lighting line   Red
Flashing line   Brown
Common line   Amber
Power Supply Wire 100V/200V:white
24V/120V/230V: gray
Power Supply Wire   Black
Ground wire   Green/Yellow

External Contact

Power supply (non-polar)

Fuse (1A)

PES-120A/ 200A/230A only
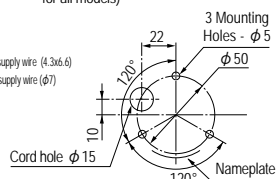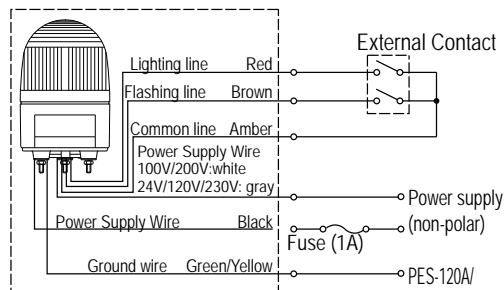
Lighting line blinking line
20V DC when open
55-83mA when short circuit

Nominal Cross-sectional Area, Wire Type: Wire Length
Signal Wire: AWG22: UL1007: 900mm
PES-24A power supply wire AWG20 : UL1007 : 1000mm
PES-120/230A power supply wire AWG18 : UL1015 : 1000mm
PES-100A power supply wire 0.75mm^2 : VCTFK : 1000mm
PES-200A power supply wire 0.75mm^2 : VCTF : 1000mm

* Connecting multiple units in parallel may cause a malfunction. Control using individual contacts.

Small LED Signal Light

PEW-A

PEW-A model
PEW-AB model (with audible)
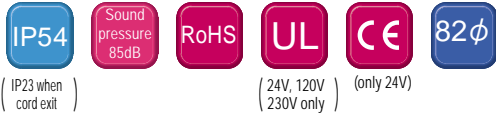
Colors	Red, Amber, Green, Blue
Globe	The material is AS resin, which is translucent and highly weather resistant.
Volume	Maximum 85dB (at 1m) (PEW-AB type)

The PEW Series features an 82mm diameter, maintenance-free LEDs, and comes in multiple voltage types.

· Triple-reflection system for enhanced visibility and low power consumption
- Built-in 85dB audible alarm (PEW-AB model)
· 3 flashing patterns - 60/120/180 FPM with toggle switch
· Maintenance-free, high efficiency LEDs
· Outdoor weather resistant with effective light emission
· IP54; IP23 - when using side wire exit
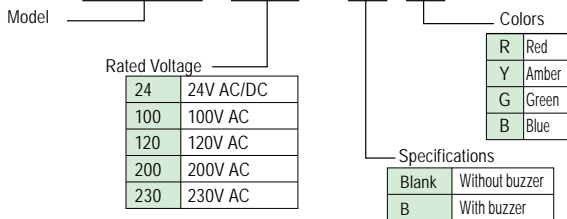· Available Colors: Red, Amber, Green, Blue

IP54 (IP23 when cord exit)   Sound pressure 85dB   RoHS   UL (24V, 120V 230V only)   CE (only 24V)   82φ

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Specifications

Model	Colors	Rated Voltage	Inrush Current	Power Consumption	Number of flashes	Mass
PEW-24A	-R/-Y	24V AC/DC	2.5A	1.5W	High-speed approximately 180/minute Medium-speed approximately 120/minute Low-speed of approximately 60/minute (Change with internal Switch)	0.32kg
	-G/-B					
PEW-24AB	-R/ -Y			2.7W		0.34kg
	-G/-B					
PEW-100A	-R/-Y	100V AC	1.0A	3.3W		0.52kg
	-G/-B					
PEW-100AB	-R/ -Y			5.0W		0.54kg
	-G/-B					
PEW-120A	-R/-Y	120V AC	1.0A	3.5W		0.52kg
	-G/-B					
PEW-120AB	-R/-Y			5.2W		0.54kg
	-G/-B					
PEW-200A	-R/-Y	200V AC	0.5A	3.2W		0.52kg
	-G/-B					
PEW-200AB	-R/ -Y			4.9W		0.54kg
	-G/-B					
PEW-230A	-R/-Y	230V AC	0.5A	3.8W		0.52kg
	-G/-B					
PEW-230AB	-R/-Y			5.5W		0.54kg
	-G/-B					

*Products with specifications for 120V or 230V have not been manufactured for domestic use in Japan, thus if you want to use them in Japan, please use products with specifications for 100V or 200V.

Model Code

PEW-24AB-R

Model

Rated Voltage
24	24V AC/DC
100	100V AC
120	120V AC
200	200V AC
230	230V AC

Colors
R	Red
Y	Amber
G	Green
B	Blue

Specifications
Blank	Without buzzer
B	With buzzer

Optional Parts

Optional Parts	Model
Wallmount Bracket	SZ-007
Wallmount Bracket	SZ-008
Wallmount Bracket	SZ-023

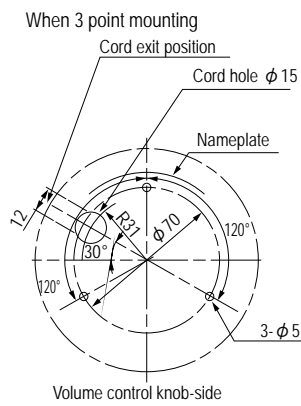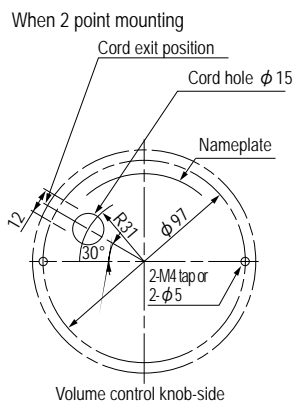* When using SZ-007, SZ-008, or SZ-023, the cord will exit from the side.

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Dimensions (mm)

PEW-24A(B)
PEW-120A(B)
PEW-230A(B)

φ107
φ82
(77)
75

Signal wire 870
Power supply wire 970

PEW-100A(B)
PEW-200A(B)

PEW-100A(B) power supply wire (4.3x6.6)
PEW-200A(B) power supply wire (φ7)

Signal wire 870
Power supply wire 970

Installation Dimension Drawings

When 2 point mounting

Cord exit position
Cord hole φ15
Nameplate
12
R31
φ97
30°
2-M4 tap or
2-φ5

Volume control knob-side

When 3 point mounting

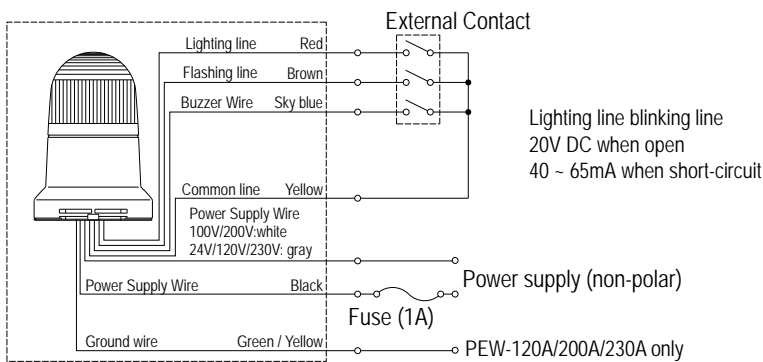Cord exit position
Cord hole φ15
Nameplate
12
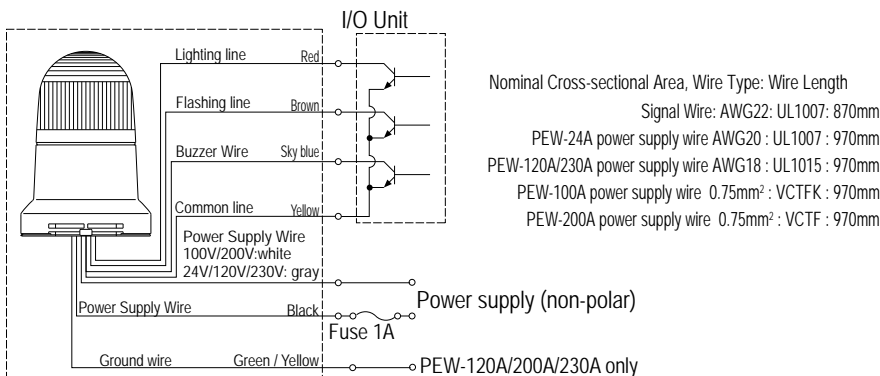R31
φ70
120°
30°
120°
3-φ5

Volume control knob-side
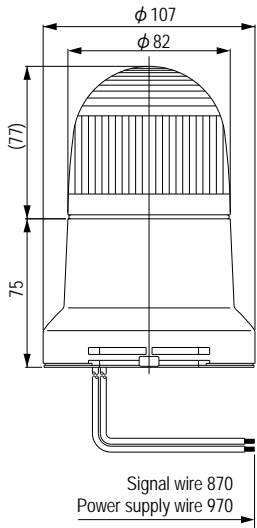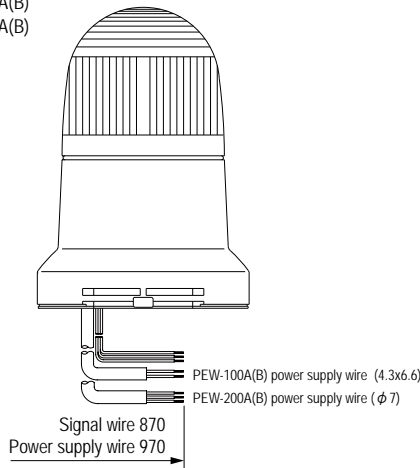
* For the length of the tap screw for 3 point mounting, please use those within the thickness of the clamp face +8mm. (Maximum board thickness: 5mm)

* Maximum board thickness when using the attached screw in 2 point mounting: 6mm

Wiring Diagram

Lighting line   Red
Flashing line   Brown
Buzzer Wire   Sky blue

External Contact

Lighting line blinking line
20V DC when open
40 ~ 65mA when short-circuit

Common line   Yellow

Power Supply Wire
100V/200V:white
24V/120V/230V: gray

Power Supply Wire   Black

Power supply (non-polar)

Fuse (1A)

Ground wire   Green / Yellow

PEW-120A/200A/230A only

NPN transistor

I/O Unit

Lighting line   Red
Flashing line   Brown
Buzzer Wire   Sky blue
Common line   Yellow

Nominal Cross-sectional Area, Wire Type: Wire Length
Signal Wire: AWG22: UL1007: 870mm
PEW-24A power supply wire AWG20 : UL1007 : 970mm
PEW-120A/230A power supply wire AWG18 : UL1015 : 970mm
PEW-100A power supply wire 0.75mm² : VCTFK : 970mm
PEW-200A power supply wire 0.75mm² : VCTF : 970mm

Power Supply Wire
100V/200V:white
24V/120V/230V: gray

Power Supply Wire   Black

Power supply (non-polar)

Fuse 1A

Ground wire   Green / Yellow

PEW-120A/200A/230A only

*Specifications for products without buzzers do not have a blue wire sticking out from the main body.
*Connecting multiple units in parallel may cause a malfunction. Control using individual contacts.

sensormatic
SPECIALIST&SOLUTIONS

Small LED Signal Light

KHE

Colors	Red, Amber, Green, Blue
Globe	Polycarbonate resin with superb shock resistance and heat resistance

The KHE Series features a 100mm diameter, clear lenses to reduce false indication, and 3 distinct signaling patterns including simulated rotation.

- Unique lens cut for enhanced visibility from all angles
- 3 light pattern options: simulated rotation, strobe, flashing
- Rotating light option without a motor for longer product life
- Very low power consumption
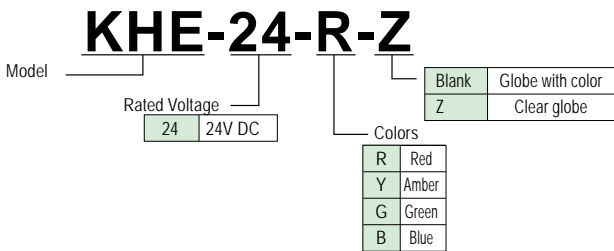- Available Colors: Red, Amber, Green, Blue

When light is off

Clear globe specification

<IP55 compliant range when using mounting rubber>

IP23 RoHS UL CE 100φ

(IP55 when mount rubber is used~sold separately)

Specifications

Model	Rated Voltage	Power Consumption	Number of flashes			Mass
			When flashing pattern	simulated rotation	When strobe pattern	
KHE-24-R	24V DC	8.2W	55 times±10 minutes	175 times±10 minutes	Double flash 75 times±10 minutes	0.45kg
KHE-24-Y						
KHE-24-G		10.1W				
KHE-24-B		21.6W				

*Regarding the clear globe specification, size, price are the same for (-Z).

Model Code

KHE-24-R-Z

Model

Rated Voltage

| 24 | 24V DC |

| Blank | Globe with color |
| Z | Clear globe |

Colors

R	Red
Y	Amber
G	Green
B	Blue

Optional Parts
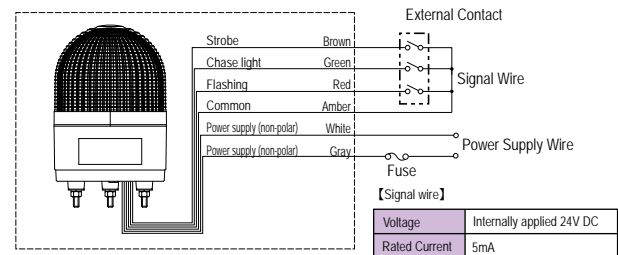For details, see pages 182 to 187.

Optional Parts	Model
Mount rubber	SZ-200
Wallmount Bracket	SZ-007
Wallmount Bracket	SZ-023

* When using a bracket for mounting on the wall-face, the IP value will still be 23, even when using the mount rubber.

Dimensions (mm)

φ100

(146) (90) 49 16 [1]

φ8

3-M5

From the cable slot (370)

Installation Dimension Drawings

Mounting Hole

3-φ6   22.7

120°   φ70   φ10   120°

5.4

Cable slot

Nameplate Location

Wiring Diagram

External Contact

Strobe	Brown
Chase light	Green
Flashing	Red
Common	Amber
Power supply (non-polar)	White
Power supply (non-polar)	Gray

Signal Wire

Power Supply Wire

Fuse

【Signal wire】

| Voltage | Internally applied 24V DC |
| Rated Current | 5mA |
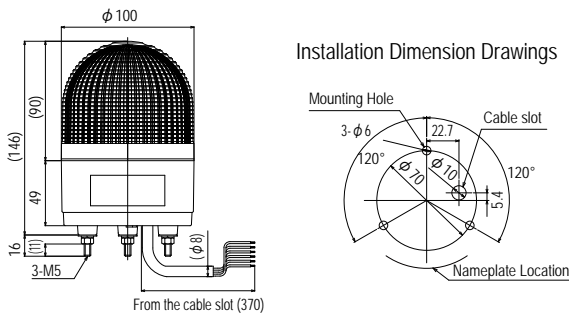
*Regarding the fuse, use a fuse that suits the rated value of the machine on which the product is mounted.
*Maximum 20A, 5μs in-flow current flow in the power line. Please use a power source with consideration to capacity for this in-flow current.

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Small LED Flash Signal Light

PSE

Network

Signal Tower

Signal Light

Revolving
Warning Light

Cube Tower

Audibles

Hybrid
Signaling
Devices

LED
Illumination

Options

| Colors	Red, Amber, Green, Blue
Globe	The material is AS resin, which is translucent and highly weather resistant.

The PSE Series features an 82mm diameter, maintenance-free LEDs, and an unique triple-flash light pattern.

- Triple-flash light pattern with a rate of 110 flashes per minute
- Available in 12V or 24V and free range voltage input of AC 100-230V
- Available colors: Red, Amber, Green, Blue

IP23   RoHS   C€   82ϕ

(IP55 when mount
rubber s used–sold
separately)

Specifications

Model	Rated Voltage	Power Consumption	Flashing Rate	Mass
PSE-M1-R/Y	12/24V DC	3.0W	110 ±10/minute (triple flash)	0.30kg
PSE-M2-R/Y	100 - 230V AC	3.2W		0.35kg

Model Code
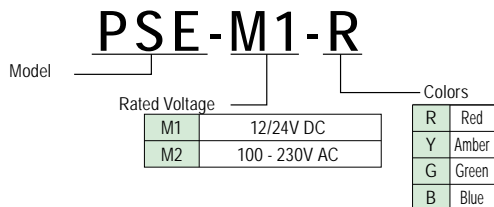
PSE-M1-R

Model

Rated Voltage

M1	12/24V DC
M2	100 - 230V AC

Colors

R	Red
Y	Amber
G	Green
B	Blue

Optional Parts
For details, see pages 182 to 187.

Optional Parts	Model
Mount rubber	SZ-210
Wallmount Bracket	SZ-007

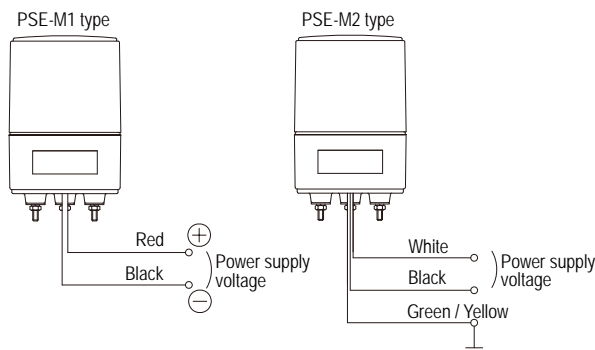* When using a bracket for mounting on the wall-face, the IP value will still be 23, even when using the mount rubber.

Dimensions (mm)

ϕ82

(73)

123

43

3-M4

13

Installation Dimension Drawings

Cord hole ϕ10

3 Mounting
Holes - ϕ5

120°

ϕ50

22

10

120°

120°

Nameplate
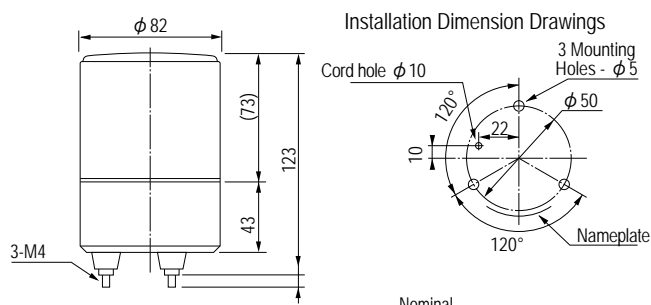
Nominal Cross-sectional Area	Wire Type	From the cord outlet
PSE-M1	AWG22 : UL1007 : (340) mm
PSE-M2	0.75mm² : VCTFK : (340) mm

Wiring Diagram

PSE-M1 type

Red ⊕
Black
Power supply voltage
⊖

PSE-M2 type

White
Black
Power supply voltage
Green / Yellow

sensormatic
SPECIALIST&SOLUTIONS

LFH

Colors	Red, Amber, Green, Blue, White
Globe	Polycarbonate resin with superb shock resistance and heat resistance.

The LFH Series features a 100mm diameter, ultra-bright, maintenance-free LEDs, and comes in multiple voltage types.

· Outdoor-rated with ultra-bright LEDs
- Triple-flash light patterns with rates of 110 and 140 flashes per minute
- Light dimming function for use in close proximities or at night
· High vibration resistance, ideal for mounting on moving vehicles
· IP66 - dust, oil, water and non-corrosive material resistance
· Available Colors: Red, Amber, Green, Blue, White/Clear
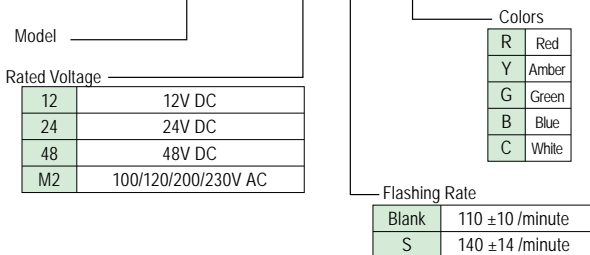- 3-year free-servicing after purchase

IP66 RoHS UL (Excluding LFH-S model) CE (Excluding LFH-S model LFH-48) 100φ

Specifications

Model	Rated Voltage	Operating Voltage Range	Power consumption (Standard) rated power Consumption (Upper: Standard/Lower: Maximum)	Ambient Operating Temperature	Storage Ambient Temperature	Mounting location	Mounting direction	Protection Rating	Vibration Resistance	Flashing Rate	Mass
LFH-12	12V DC	9.5 - 15V DC	5.0W	-30 °C - +70 °C	-40 °C - +80 °C	Indoor/ Outdoor	Forward, side, reverse directions (forward direction only in wet places)	IP66 (IEC 60529) when installed in the forward direction	90m/s2	110 ±10 /minute (triple flash)	570g
			6.0W								
LFH-24	24V DC	20 - 30V DC	4.5W								
			5.5W								
LFH-48	48V DC	35 - 60V DC	6.5W								
			7.5W								
LFH-M2	100/120/200/ 230V AC (50/60Hz)	90 - 250V AC	5.7W	-20 °C - +60 °C	-30 °C - +70 °C				20m/s2		610g
			6.8W								
LFH-12S	12V DC	9.5 - 15V DC	5.0W	-30 °C - +70 °C	-40 °C - +80 °C	Indoor/ Outdoor	Forward, side, reverse directions (forward direction only in wet places)	IP66 (IEC 60529) when installed in the forward direction	90m/s2	140±14 /minute (triple flash)	570g
			6.0W								
LFH-24S	24V DC	20 - 30V DC	4.5W								
			5.5W								
LFH-48S	48V DC	35 - 60V DC	6.5W								
			7.5W								

Model Code

LFH-12S-R

Model

Rated Voltage
12	12V DC
24	24V DC
48	48V DC
M2	100/120/200/230V AC

Flashing Rate
Blank	110 ±10 /minute
S	140 ±14 /minute

Colors
R	Red
Y	Amber
G	Green
B	Blue
C	White

Optional Parts

For details, see pages 182 to 187.

Optional Parts	Model
Wallmount Bracket	SZ-170
Wallmount Bracket	SZ-007

Network
Signal Tower
Signal Light
Revolving Warning Light
Cube Tower
Audibles
Hybrid Signaling Devices
LED Illumination
Options

Network

Signal Tower

Signal Light
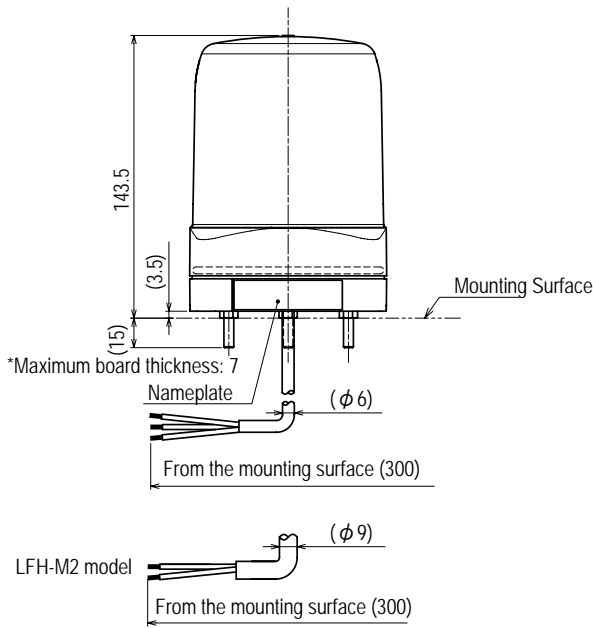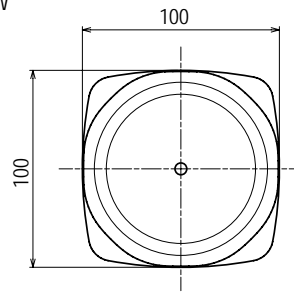
Revolving Warning Light

Cube Tower

Audibles

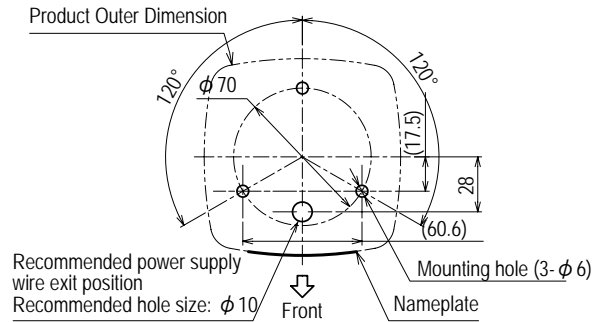Hybrid Signaling Devices

LED Illumination

Options

Dimensions (mm)

Side view

Top view

143.5

(3.5)

(15)

*Maximum board thickness: 7

Nameplate

Mounting Surface

(φ6)

From the mounting surface (300)

LFH-M2 model

(φ9)

From the mounting surface (300)

100

100

Installation Dimension Drawings

Product Outer Dimension

120°

120°

120°

φ70

(17.5)

28

(60.6)

Recommended power supply wire exit position
Recommended hole size: φ10

Front

Mounting hole (3-φ6)

Nameplate

Wiring Diagram

LFH-12/24/48/12S/24S/48S model

White * (dimmer wire)

External Contact

Red (power supply wire ⊕)

⊕

Black (power supply wire ⊖)

⊖

Power supply

External fuse
(2A)

LFH-M2 model

White (power supply wire)

Black (power supply wire)

Power supply

External fuse
(2A)
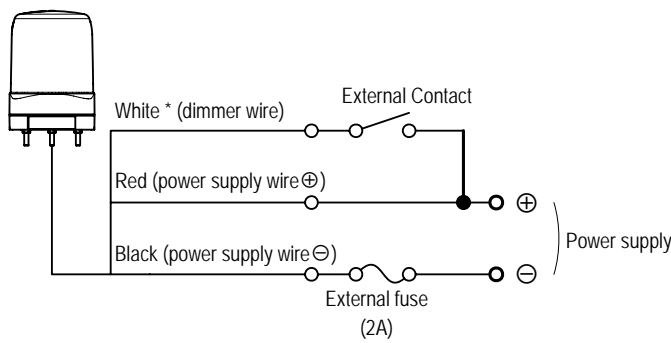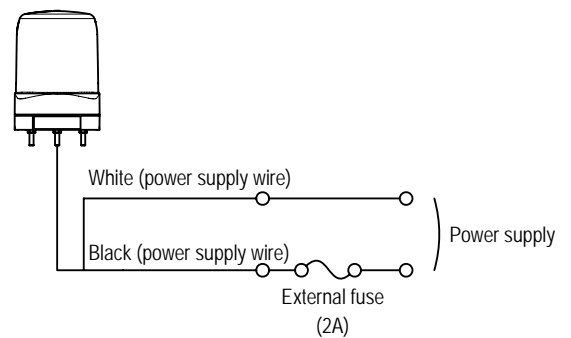
*Insulate the ends of the cable when the light dimmer function is not in use.

Conformity Standards

LFH-12	UL 1638, CAN/ULC-S526-M87 RoHS Directive EN 50581 EMC Directives (EN 55015, EN 61547) FCC Part 15 Subpart B Class A, ECE regulation No.10
LFH-24	
LFH-48	UL 1638, CAN/ULC-S526-M87
LFH-M2	UL 1638, CAN/ULC-S526-M87 RoHS Directive EN 50581 EMC Directives (EN 61000-6-4, EN 61000-6-2) Low Voltage Directives (EN 60598-1, EN 60598-2-1, EN 62031, EN 61347-1, EN 61347-2-13, EN 62471) FCC Part 15 Subpart B Class A
LFH-12S	ECE Regulation No.10
LFH-24S	

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SPECIALIST&SOLUTIONS

Battery-powered Flash Signal Light

PFH-BT

Battery | U

Colors	Red, Amber
Globe	Polycarbonate resin, high shock resistance and heat resistance

The PFH Series features an 101mm diameter and an AA battery power supply and a strong magnetic base, ideal for temporary maintenance and "lock out, tag out" applications.

- Power is supplied by 4 standard AA batteries
- 2 built-in flash patterns with toggle switch
- 2 modes for efficient battery use with toggle switch
- IP55 protection ratingWhite/Clear
- 3-year free-servicing after purchase

動画でチェック

IP55 | 100φ | RoHS | With magnet | LED flash | AA battery x 4

Specifications

Model	PFH-BT-R/-Y
Power Supply	4 - AA Sized Alkaline/Nickel Metal Hydride Batteries
Battery life	Power mode: 24 hours, Eco mode: 100 hours*
Ambient Operating Temperature / Humidity	-10 ºC - 50 ºC 90% RH or less, no condensation (not including the battery)
Mounting Location / Direction	Indoors/outdoors, front/side direction (power switch facing downward)
Protection Rating	IP55 (Front)
Peak luminous intensity (Typ.)	Red: Over 40 cd, Amber: Over 140 cd (in power mode)
Mass	510g (excluding batteries)
Conformity Standards	RoHS Directive EN 50581, EMC Directives (EN61000-6-4, EN61000-6-2)

*Changes depending on the type of batteries, and conditions and environment in which it is used.

Dimensions (mm)

Side view

160

φ 101

Bottom view

Magnet (φ 45)
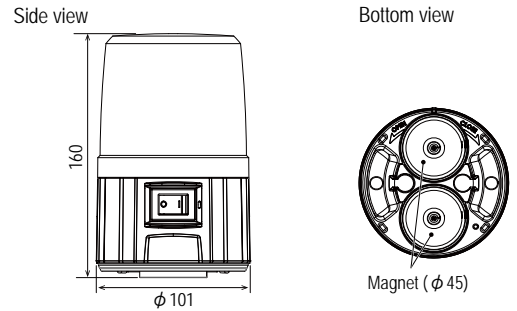
■ Toggle between "Flash pattern" and "Lighting mode"
depending on your application: Indoors, outdoors, day or night.

High visibility
Power mode
Double flash
Single flash

Battery life (24 h) *

Long time
Eco-mode
Double flash
Single flash

Battery life (100 h) *

* Changes depending on the type of batteries, and conditions and environment in which it is used.

Luminous Intensity

Power mode — Light off

Eco-mode — Light off

Third-party products — Light off

0   25   50   100   Time

As the battery wears out, the light gets dark, the visibility does not deteriorate and the brightness is maintained until the end.

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Medium LED Flash Signal Light

XPE

Large LED Flash Signal Light

XME

IP23 RoHS CE 162φ

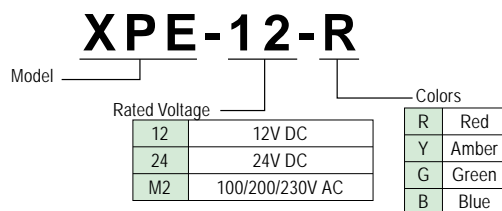| Colors	Red, Amber, Green, Blue
Globe	Polycarbonate resin with superb shock resistance and heat resistance

The XPE Series features a 162mm diameter, a triple-flash rate pattern, and multiple voltage options.
- Triple-flash pattern with 110 flash rate per minute
- Durable structure with stainless steel bolts
- Built-in dimmer function
- Available colors: Red, Amber, Green, Blue

Specifications

Model	Rated Voltage	Power Consumption	Flashing Rate	Mass
XPE-12	12V DC	5.0W	110±10 /minute (Triple flash)	1.2kg
XPE-24	24V DC	4.5W		
XPE-M2	100/200/230V AC	5.7W		

Model Code

XPE-12-R

Model
Rated Voltage
Colors

12	12V DC
24	24V DC
M2	100/200/230V AC

R	Red
Y	Amber
G	Green
B	Blue

Optional Parts   For details, see pages 182 to 187.

Optional Parts	Model
Wallmount Bracket	SZ-023
Wallmount Bracket	SZ-008

Dimensions (mm)

Installation Dimension Drawings

Cord hole
φ120
3 Mounting Holes - φ9
Nameplate
120°
30
120°
190
203
61
16
3-M8 screw
φ162

Wiring Diagram

XPE-12/24 type

White (dimmer wire)   External Contact
Red (power supply wire ⊕)
Black (power supply wire ⊖)
Power supply
External fuse (2A)

XPE-M2 type

White (power supply wire)
Black (power supply wire)
Power supply
Ground wire (Green /Yellow)

IP23 RoHS CE 187φ
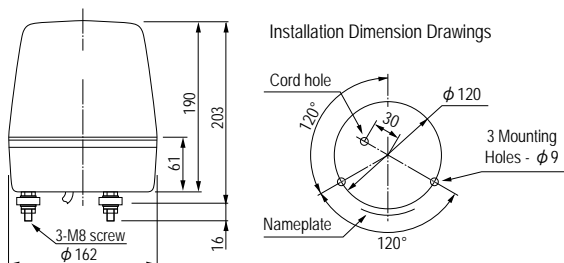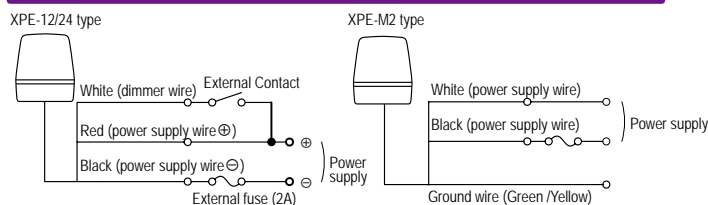
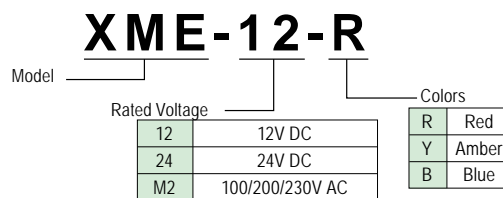| Colors	Red, Amber, Blue
Globe	Polycarbonate resin with superb shock resistance and heat resistance

The XME Series features a 182mm diameter, a triple-flash rate pattern, and multiple voltage options.
- Triple-flash pattern with 110 flash rate per minute
- Durable structure with stainless steel lens mounts and bolts
- Built-in dimmer function
- Available colors: Red, Amber, Blue

Specifications

Model	Rated Voltage	Power Consumption	Flashing Rate	Mass
XME-12	12V DC	5.0W	110±10 /minute (Triple flash)	1.8kg
XME-24	24V DC	4.5W		
XME-M2	100/200/230V AC	5.7W		

Model Code

XME-12-R

Model
Rated Voltage
Colors

12	12V DC
24	24V DC
M2	100/200/230V AC

R	Red
Y	Amber
B	Blue

Optional Parts   For details, see pages 182 to 187.

Optional Parts	Model
Wallmount Bracket	SZ-008

Dimensions (mm)

φ166

Installation Dimension Drawings

Cord hole   Nameplate
3 Mounting Holes - φ9
120°
40
φ140
120°
150
(239)
88
(16)
3-M8 screw
φ187

Wiring Diagram

XME-12/24 type

White (dimmer wire)   External Contact
Red (power supply wire ⊕)
Black (power supply wire ⊖)
Power supply
External fuse (2A)

XME-M2 model

White (power supply wire)
Black (power supply wire)
Power supply
Ground wire (Green /Yellow)

sensormatic SPECIALIST&SOLUTIONS

# Medium LED Chase Light/Flashing Signal Light

KPE-A

Colors	Red, Amber
Globe	The material is AS resin, which is translucent and highly weather resistant.

The KPE Series features a 162mm diameter, ultra-bright LEDs, and a unique LED simulated rotation light pattern option.

- Ultra-bright LEDs; 4-times brighter than our standard models, i.e. KPE, KME
- Adjustable rotating light option without a motor for longer product life
- Available Colors: Red, Amber, Green, Blue
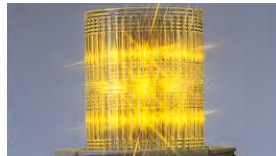
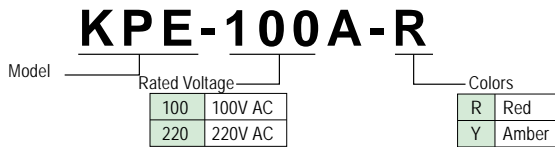IP23   162φ

LED chase light
LED are laid out evenly over 8 sides and light up in turn in a circular direction as a result of the electronic circuits, and they light as though they are flowing. Moreover, the light is further dispersed through the globe. You can change the chase light rotation speed with the volume in the main body.

Specifications

Model	Rated Voltage	Power consumption (chase light / when flashing)	Chasing Rotation Rate/Flashing Rate	Vibration Resistance	Mass
KPE-100A	100V AC	8.5W/13W	50 - 200/minute (chase light) 60/minute (when flashing)	44.1m/s2 JIS D 1601-1990 Stage 4, Type 3, Class B compliant	1.5kg
KPE-220A	220V AC	9.5W/14W			

Operating Temperature Range: -30 °C to +60 °C, Mounting Direction: Indoors - Forward, Side, Reverse directions; Outdoors - Forward.
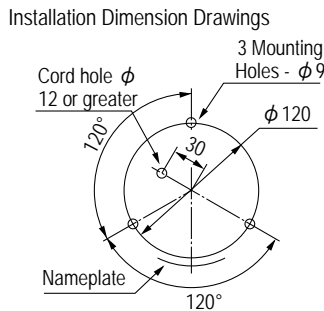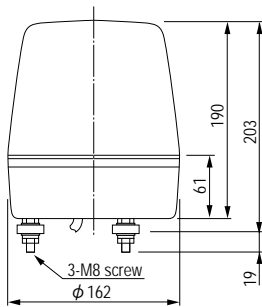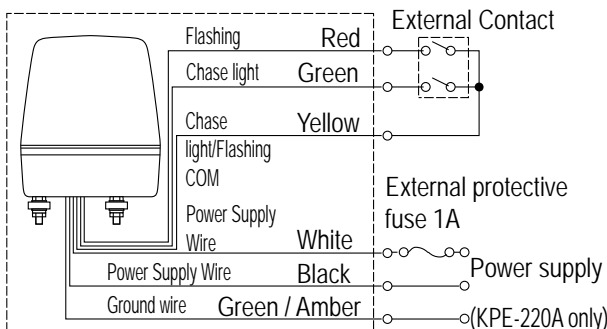
Model Code

KPE-100A-R

Model —— Rated Voltage

| 100 | 100V AC |
| 220 | 220V AC |

Colors

| R | Red |
| Y | Amber |

Optional Parts

For details, see pages 182 to 187.

Optional Parts	Model
Wallmount Bracket	SZ-023
Wallmount Bracket	SZ-008

Dimensions (mm)

190
203
61
19

3-M8 screw
φ162

Installation Dimension Drawings

3 Mounting Holes - φ9
Cord hole φ 12 or greater
φ120
120°
30
φ120
Nameplate
120°

Wiring Diagram

Flashing — Red
Chase light — Green
Chase light/Flashing COM — Yellow
Power Supply Wire — White
Power Supply Wire — Black
Ground wire — Green / Amber

External Contact

5V DC when signal wire is open
5mA when short-circuit

Nominal Cross-sectional Area : Wire Type: Wire Length

Signal Wire: AWG22: UL1007: 270mm
KPE-100A power supply wire 0.75mm2 : VCTFK : 330mm
KPE-220A power supply wire 0.75mm2 : VCTF : 330mm

External protective fuse 1A

Power supply
(KPE-220A only)

*Connecting multiple units in parallel may cause a malfunction. Control using individual contacts.

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

Large LED Chase Light

KLE

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Hybrid Signaling Devices

LED Illumination

Options

KLE model   KLE-S model (Stainless steel)

Colors	Red, Amber
Globe	The material is AS resin, which is translucent and highly weather resistant.

The KLE Series features a 162mm diameter, ultra-bright LEDs, and a unique LED simulated rotation light pattern option.

- 32 high-intensity LEDs with efficient light distribution
- Adjustable rotating light option without a motor for longer product life
- Durable structure design
· Available Colors: Red, Amber, Green, Blue
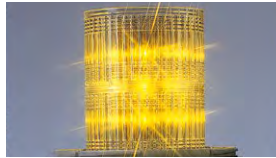
IP23   162φ

LED Chase Light
LED are laid out evenly over 8 sides and light up in turn in a circular direction as a result of the electronic circuits, and they light as though they are flowing. Moreover, the light is further dispersed through the globe. You can change the chase light rotation speed with the volume in the main body.
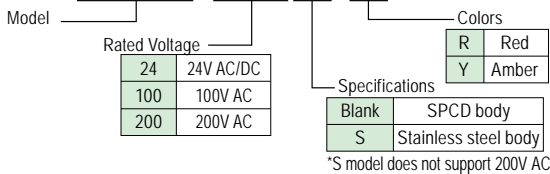
Specifications

Model	Rated Voltage	Power Consumption	Number of flashes	Vibration Resistance	Mass
KLE-24	24V AC/DC	5.8W		45m/s2 JIS D 1601-1995 Stage 4, Type 3, Class B compliant	1.2kg
KLE-24S			50 to 200/minute		
KLE-100	100V AC	10.9W			1.5kg
KLE-100S					
KLE-200	200V AC	10.7W			

Operating Temperature Range: -30 °C to +60 °C, Mounting Direction: Indoors - Forward, Side, Reverse directions; Outdoors - Forward.
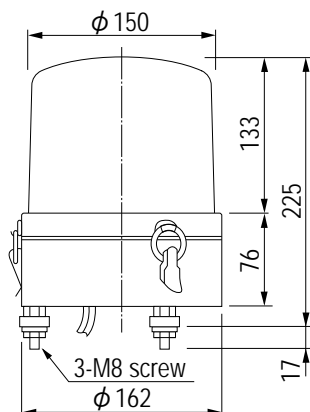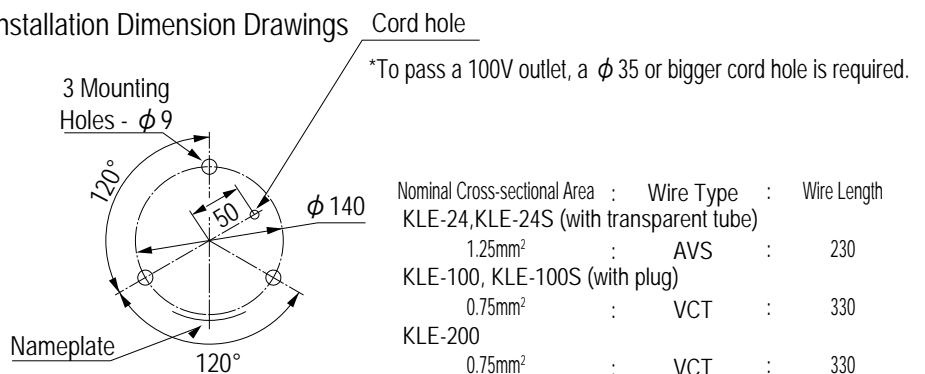
Model Code

KLE-24S-R

Model

Rated Voltage

24	24V AC/DC
100	100V AC
200	200V AC

Specifications

Blank	SPCD body
S	Stainless steel body

*S model does not support 200V AC

Colors

R	Red
Y	Amber

Optional Parts
For details, see pages 182 to 187.

Optional Parts	Model
Wallmount Bracket	SZ-023
Wallmount Bracket	SZ-008

Dimensions (mm)

φ 150
133
225
76
17
3-M8 screw
φ 162

Installation Dimension Drawings   Cord hole

*To pass a 100V outlet, a φ 35 or bigger cord hole is required.

3 Mounting Holes - φ 9
120°
120°
50
φ 140
120°
Nameplate

Nominal Cross-sectional Area	:	Wire Type	:	Wire Length
KLE-24,KLE-24S (with transparent tube)				
1.25mm^2	:	AVS	:	230
KLE-100, KLE-100S (with plug)				
0.75mm^2	:	VCT	:	330
KLE-200				
0.75mm^2	:	VCT	:	330

sensormatic SPECIALIST&SOLUTIONS

Small Signal Light

PS

PS-12 Scheduled to end production

Colors	Red, Amber, Green, Blue
Globe	Polycarbonate resin with superb shock resistance and heat resistance

The PS Series features an 82mm diameter with incandescent bulbs as the light source as a low upfront cost option.

- IP55 with rubber mount (SZ-210); IP23 without rubber mount
- Available colors: Red, Amber, Green, Blue

PS model (Lighting)

When mount rubber (sold separately) is used

IP23   82φ

(IP55 when mount
rubber is used–sold
separately)

Specifications

Model	Rated Voltage	Power Consumption	Bulb	Number	Mass
PS-12	12V AC/DC	10W	12V 10W	9	0.3kg
PS-24	24V AC/DC		24V 10W	10	

Bulb Shape 12V/24V Glass Bulb G18, Base BA15S

Optional Parts   For details, see pages 182 to 187.

Optional Parts	Model
Mount rubber	SZ-210
Wallmount Bracket	SZ-007

*When using a wallmount bracket, even with the mount rubber the IP value is 23.

Dimensions (mm)

φ 82

(73)

123

43

13

3-M4

Installation Dimension Drawings

3 Mounting
Holes - φ5

120°

120°

120°

φ 50

Position of the
cord hole

32

6
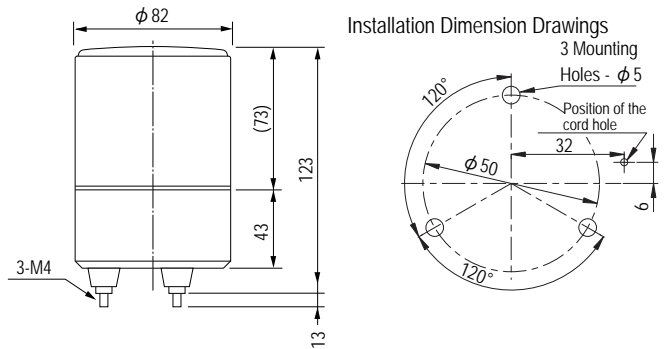
Nominal Cross-sectional Area : Wire Type : Wire Length
0.75mm²: VCTFK: From the cord outlet (340)
From the code hook (300)

Side navigation: Network | Signal Tower | Signal Light | Revolving Warning Light | Cube Tower | Audibles | Hybrid Signaling Devices | LED Illumination | Options