ASi Supported

LHE-A3 / LHE-E3 / LE-E3 / WEP-E3

LED

90dB/m
(LE type: 85dB/m)

Electronic Sound 2

IP65
(LE type: IP54)

LHE-A3/E3 type

LE-E3 type

WEP-E3 type

ASi supported Signal Tower for Open-field Network

- A-type: Uses ASi cable only, which transfers power and signals for control.
- E-type: Uses ASi cable and ASi auxiliary power cable for larger systems more than 2A.
- Easy Connection: Direct connection to a linked ASi interface with ASi cable, without I/O terminals.
- Required Device: ASi-type controller (i.e. ASi master).
- Data Storage: Addresses stored in EEPROM by an address input device.
- Light Pattern: Continuous only, no flashing.
- B type: Built-in alarm; LHE: 90dB/m (adjustable), LE: 85dB/m (adjustable), WEP: 90dB/m.
- Sound Pattern: Intermittent tone, Alarm 1: short beep, Alarm 2: long beep.
- Interchangeable modules*: No re-wiring even after installation, except for WEP type.

*Refer to the standard non-fieldbus model for details.

ø70 IP65

ASi cable type

LHE-A3
LHE-A3B

ASi auxiliary power cable type

LHE-E3
LHE-E3B

- Sound Pattern: Short beep or long beep up to 90dB* (at 1m)
- Installation: Upright and indoors only.
- LHE-A type: ASi cable for small scale system network (network's total current is less than 2A.
- LHE-A: ASi cable for less than 2A.
- LHE-E: Add ASi power cable for more than 2A.

ø50 IP54

ASi auxiliary power cable type

Direct mount

LE-E3W
LE-E3BW

Pole mount

LE-E3P
LE-E3BP

- Original Dual Reflection System: For enhanced light diffusion, creating bright distinctive illumination while saving energy. (PAT.P)
- Sound Pattern: Short beep and long beep up to 85dB* (at 1m)
- Installation: Upright and indoors only.

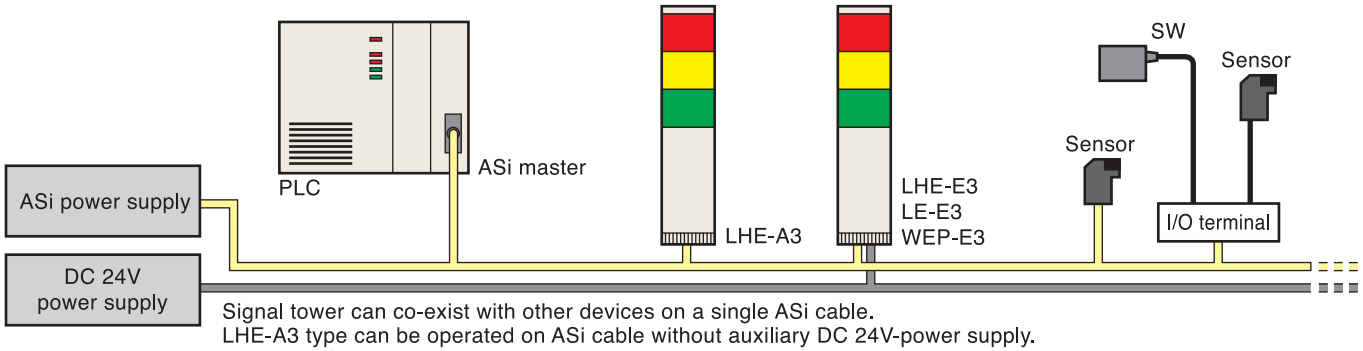
Profile 37.5mm IP65

ASi auxiliary power cable type

WEP-E3
WEP-E3B

- Clear Vertical Cut Lens: For enhanced illumination for a wide perspective.
- Sound Pattern: Short beep or long beep up to 90dB* (at 1m).
- Installation: Indoors only, vertical or horizontal, either direction except for alarm (B) type: alarm at the bottom.

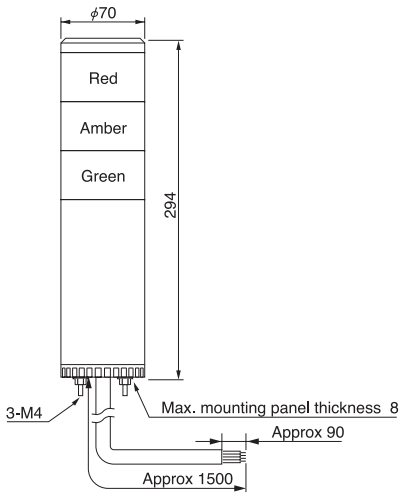
Application Example



Signal tower can co-exist with other devices on a single ASi cable.
LHE-A3 type can be operated on ASi cable without auxiliary DC 24V-power supply.
All other ASi models require an auxiliary power supply.

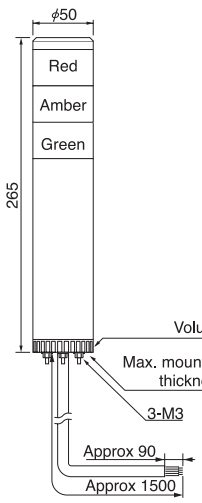
Dimensions

LHE-A3/E3

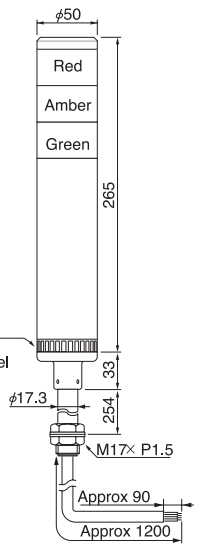


LE-E3

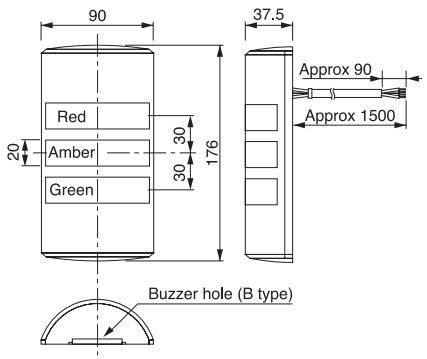
Direct mount

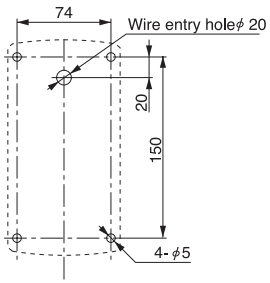


Pole mount



WEP-E3

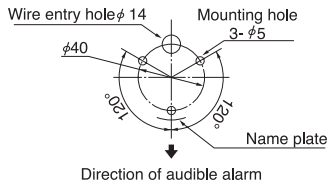




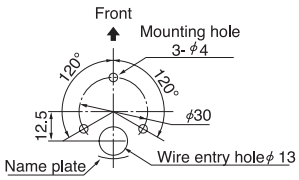
Buzzer type required to be installed vertically with the buzzer outlet downward.

(mm)

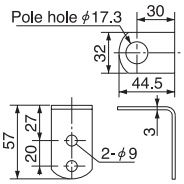
Mounting Dimension



Mounting Dimension



Side-Mount Bracket



Color of lead wire	ASi cable type	ASi auxiliary power cable type
BROWN	AS-i+	AS-i+
BLUE	AS-i−	AS-i−
WHITE	—	Auxiliary power supply DC 24V
BLACK	—	Auxiliary power supply 0V

LHE-A3/E3 / LE-E3 / WEP-E3 type

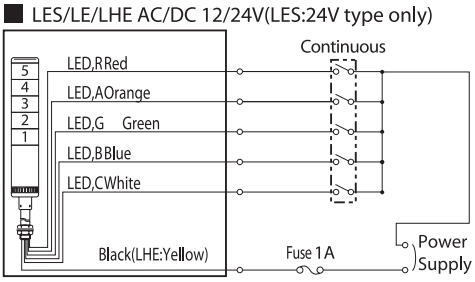
Number of stacks	Model	Power supply required for LED Modules	Audible alarm	ASi power supply	Auxiliary power supply	Current consumption		
						ASI PCB (Max.)	LED Module (Max.)	Audible alarm (Max.)
3 Lights (Red Amber Green)	LHE-A3	ASi power supply	N/A	30V (AS-i+ AS-i-)	Unnecessary	60mA	50mA(Red,Amber) 40mA(Green)	—
	LHE-A3B		available					40mA
	LHE-E3	ASi auxiliary power supply	N/A		DC24V			—
	LHE-E3B		available					40mA
	LE-E3W/LE-E3P		N/A				25mA(Red,Amber) 20mA(Green)	—
	LE-E3BW/LE-E3BP		available					40mA
	WEP-E3		N/A				30mA(Red,Amber) 25mA(Green)	—
	WEP-E3B		available					40mA

Total current consumption of all devices (LED and buzzer elements) must not exceed 200mA when operating more than three towers on the network. If the 200mA limit is exceeded, the ASi auxiliary power cable type is required. Patlite's standard signal tower for field bus application is the three-light style.

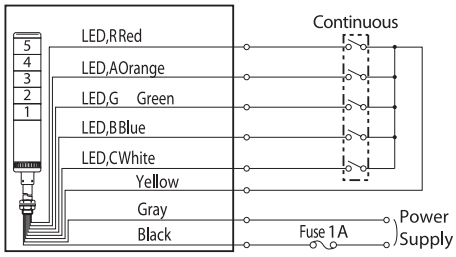
LES/LE/LHE Wiring Diagram

(LE-□□□(FB)(W)(P) Model)

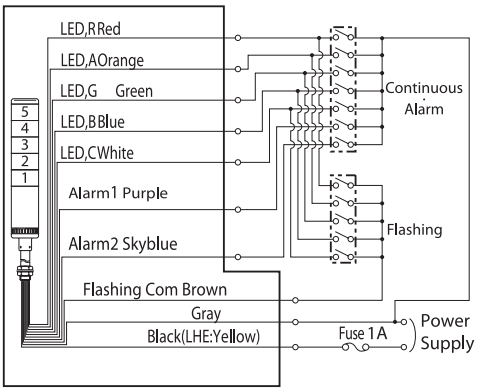
■ LES/LE/LHE AC/DC 12/24V(LES:24V type only)



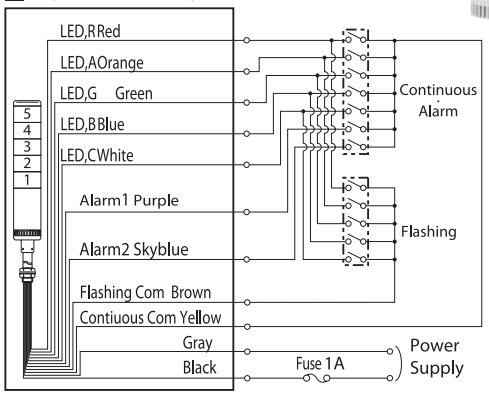
■ LE/LHE AC 100/220V



■ LE/LHE-FB AC/DC 12/24V



■ LE/LHE-FB AC 100/220V



■ Lead wire color correspondence table

Color of LED unit	Color of Lead wire
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear	White

※LE type:All 5light wires are supplied even if all colors are not used.

Alarm	Color of Lead wire
Alarm1	Purple
Alarm2	Skyblue

※Alarm wires do not exist for continuous only model.

■ Volage and Amperage of lead wire per layer

Model	Voltage Type	Signal Line Voltage	LED Signal Line Current	Alarm
LE	AC/DC 12V	AC/DC 12V	R,A:50mA G,C:40mA B:44mA	Signal Line Current 40mA
LHE-A	AC/DC 24V	AC/DC 24V	R,A:50mA G,C,B:40mA	
LES/LE			R,A:25mA G,C:20mA B:22mA	
LHE-A	AC100V,220V	DC 24V	R,A:50mA G,C,B:40mA	Rush Current 150mA
LE			R,A:25mA G,C:20mA B:22mA	

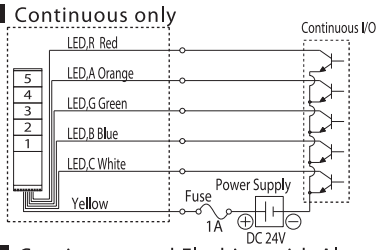
■ Fuse for outer contact protection

Voltage	Fuse
All voltage types	1A

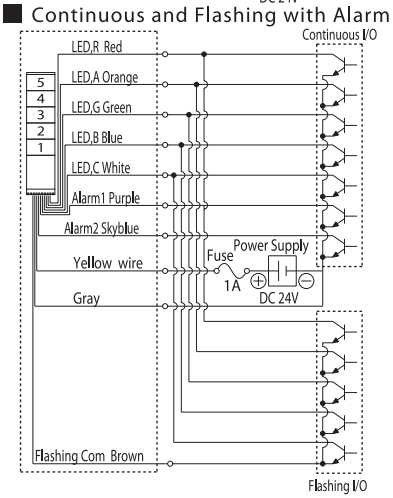
NPN(PNP)Transistor

DC24V NPN Transistor

■ Continuous only

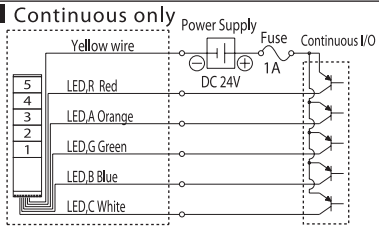


■ Continuous and Flashing with Alarm

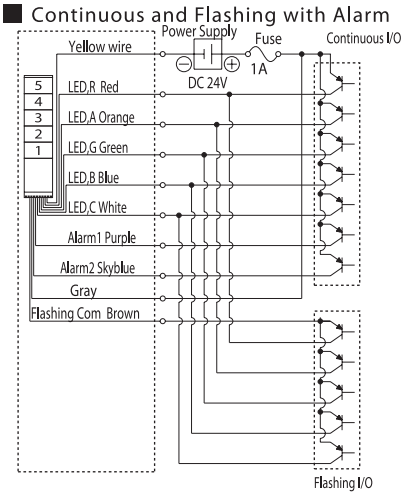


DC24V Transistor

■ Continuous only

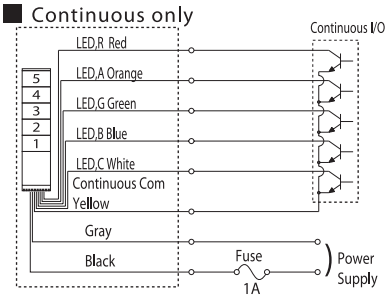


■ Continuous and Flashing with Alarm

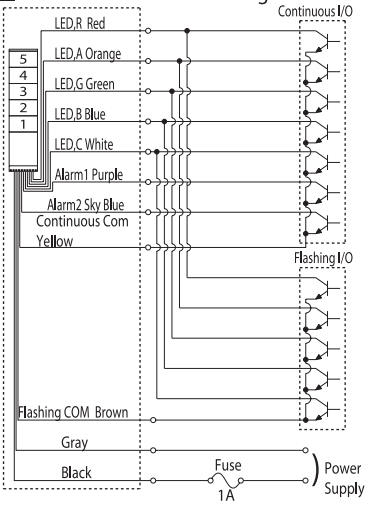


AC100/220V NPN Transistor

■ Continuous only



■ Continuous and Flashing with Alarm

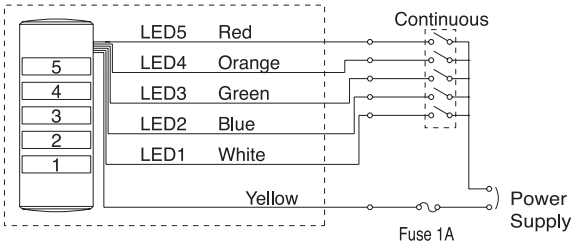


	Transistor	Current Capacity	Withstand Voltage	Current Leak
LES	NPN or PNP	Ic^100mA (LED UNIT) Ic^300mA (Alarm)	Vc^35V	IL%1mA
LE			Vc^50V	
LHE		Ic^50mA (LED UNIT)		

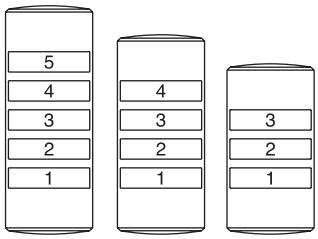
WEP/WE Wiring Diagram

[WEP/WE-ccc(FB) Model]

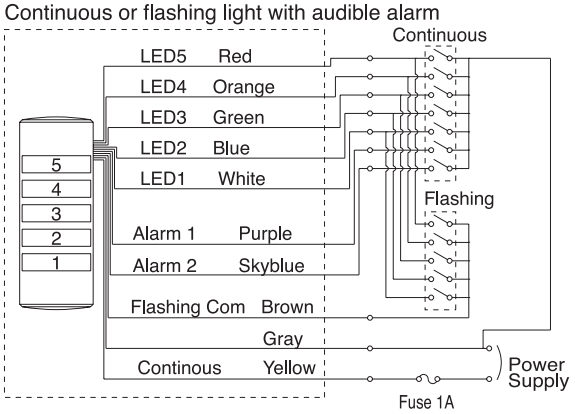
Continuous light



Wire color



Continuous or flashing light with audible alarm



Light

Wire color	5 Lights	4 Lights	3 Lights
Red	5	4	3
Orange	4	3	2
Green	3	2	1
Blue	2	1	-
White	1	-	-

Alarm

	Wire color	Sound
Alarm 1	Purple	Short pips
Alarm 2	Skyblue	Long beeps

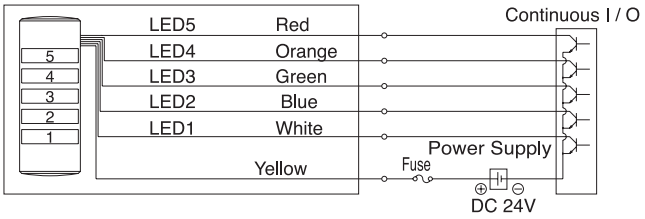
Voltage and Amperage of lead wire per layer

Model	Voltage Type	Signal Line Voltage	LED		Alarm	
			Signal Line Current		Signal Line Current	Rush Current
			R,A	G,B,C		
WEP/WE	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA

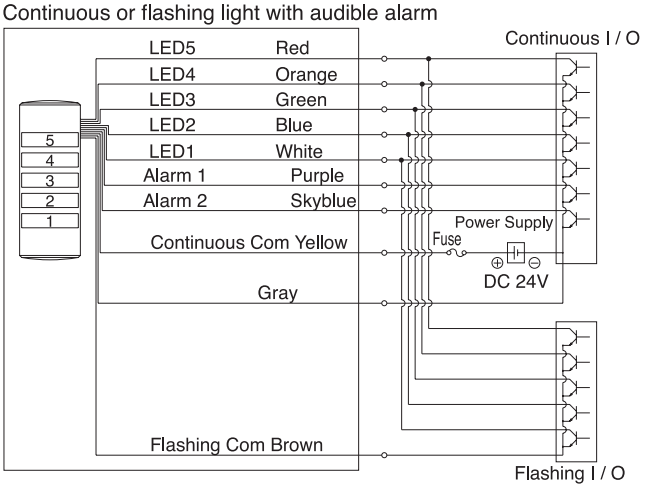
DC 24V NPN(PNP) Transistor

NPN Transistor

Continuous light

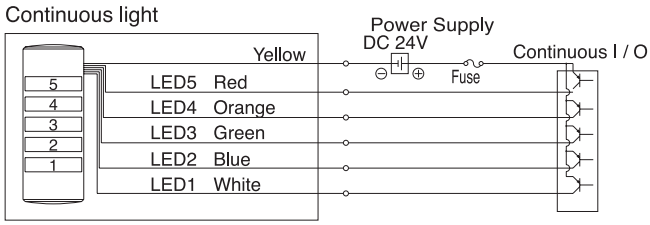


Continuous or flashing light with audible alarm

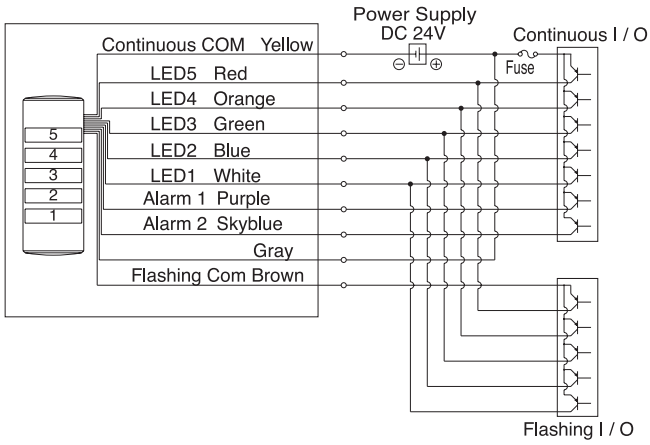


PNP Transistor

Continuous light



Continuous or flashing light with audible alarm



Type	Transistor (NPN or PNP)	Voltage	Vc^35V (48V:Vc^63V)
Current Capacity	Ic ^ 0.1A Buzzer 300mA	Current Leak	IL % 0.1A

[Fuse rate]

1A