SPECIFICATIONS

Product Name: Interface Converter

Model: PHE-3FB3□-RYG

PATLITE Corporation

1. General Specifications

Model		PHE-3FB3-RYG　　　(AC Adaptor included)
		PHE-3FB3N-RYG　　(AC Adaptor not included)
Rated Voltage		24VDC (Main Unit)　　5VDC (USB Bus Power)
	AC Adaptor	Input: 100VAC - 240VAC (50/60Hz)　　Output: 24VDC
Operating Voltage Range		90VAC - 264VAC　(AC Adaptor)
Rated Power Consumption	Standby	1.2W (100VAC)　　0.9W (24VDC)　　0.2W (5VDC)
	Maximum	4.4W (100VAC)　　3.9W (24VDC)　　1.4W (5VDC)
Operating Ambient Temperature		0°C - +40°C　(No Dew or Condensation)
Operating Ambient Humidity		20% - +85% RH　(No Dew or Condensation)
Storage Ambient Temperature		-10°C - +60°C　(No Dew or Condensation)
Storage Ambient Humidity		20% - +85% RH　(No Dew or Condensation)
Mounting Location		Indoor Only
Mounting Direction		Upright
Protection Rating		IP 20
Insulation Resistance		More than 10MΩ at 500VDC between live part and non-current carrying metallic part *1
Withstand Voltage		1500VAC applied for 1min (10mA or less) between live part and non-current carrying metallic part without breaking insulation *1
Mass (Tolerance ±10%)		545g　(AC Adaptor not include)
Outer Dimensions		Refer to the Outer Dimension Drawing
Sound Pressure Level		80dB or more
	Environmental Condition	Front direction from the center, at 1m
Interface	USB Port	USB2.0 Conformity (Bus-powered)　　Standard Type (Female)
	Serial Port	RS-232C Conformity　D-Sub 9 pin　(Male)
Communication method	USB Port	CDC (Communication Device Class) protocol
	Serial Port	Asynchronous (Baud Rate: 9600bit/s, No Parity, Stop bit: 1bit, Data length: 8bit, No Flow control)
Signal Tower		Clear Lens Type
Operating portion		"Clear" Switch, "Set" Switch, "Buzzer" Switch
Accessories		AC Adaptor *1, Installation Manual, Rubber feet (4 pcs.), Sound Reduction sheet
Option		Tint Film (NHP-TF)
Conformity Standards		RoHS Directive (EN IEC 63000) EMC Directive (EN 61000-6-4 (Class A), EN 61000-6-2) FCC Part15 Subpart B Class A, ICES-003 Class A UL 60950-1 CAN/CSA C22.2 No.60950-1 PSE Compliant AC Adaptor
Remark		*1 : N type excluded Conforms to the CE Requirements Conforms to the UKCA Requirements UL/cUL Listed : PHE-3FB3-RYG UL/cUL Recognized Component : PHE-3FB3N-RYG

2. Model

2.1. Model Number Configuration

P H E − 3 F B 3 □ − R Y G

Signal Tower Tiers
3　　3 tiers

AC Adaptor
None　　　AC Adaptor included
　N　　　AC Adaptor not included

LED Unit Color
R　　Red
Y　　Amber
G　　Green

From top to bottom
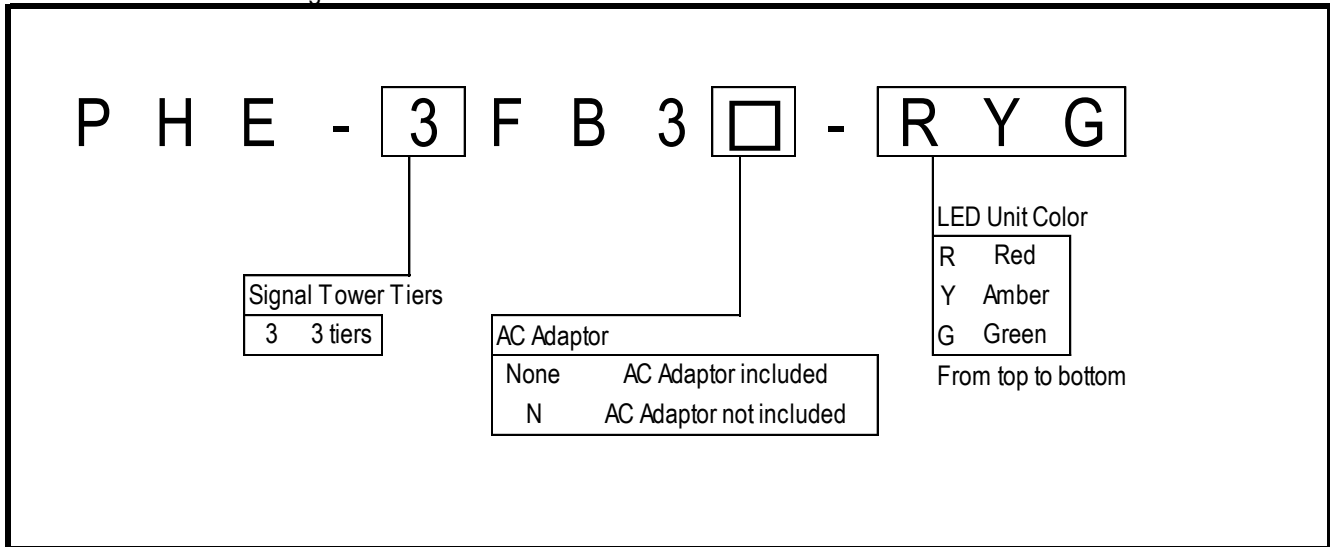
2.2. Model Number List

PHE-3FB3-RYG　　　　　　　　　PHE-3FB3N-RYG

3. Action Specification

3.1. Information (Main Unit)

Signal Tower		Lighting pattern for each color LED units, such as continuous lighting, flashing pattern 1, and flashing pattern 2
	Flashing pattern 1	ON(800ms), OFF(800ms)　　(repetition)
	Flashing pattern 2	ON(120ms), OFF(280ms), ON(120ms), OFF(1080ms)　　(repetition)
Buzzer		Four kind of buzzer sounds, such as buzzer pattern1, 2, 3, and 4
	Buzzer pattern 1	ON(40ms), OFF(40ms)　　(repetition)
	Buzzer pattern 2	ON(800ms), OFF(800ms)　　(repetition)
	Buzzer pattern 3	ON(240ms), OFF(160ms), ON(240ms), OFF(960ms)　　(repetition)
	Buzzer pattern 4	ON(continuity)

4. Function Specification

4.1. Main Unit Control Function

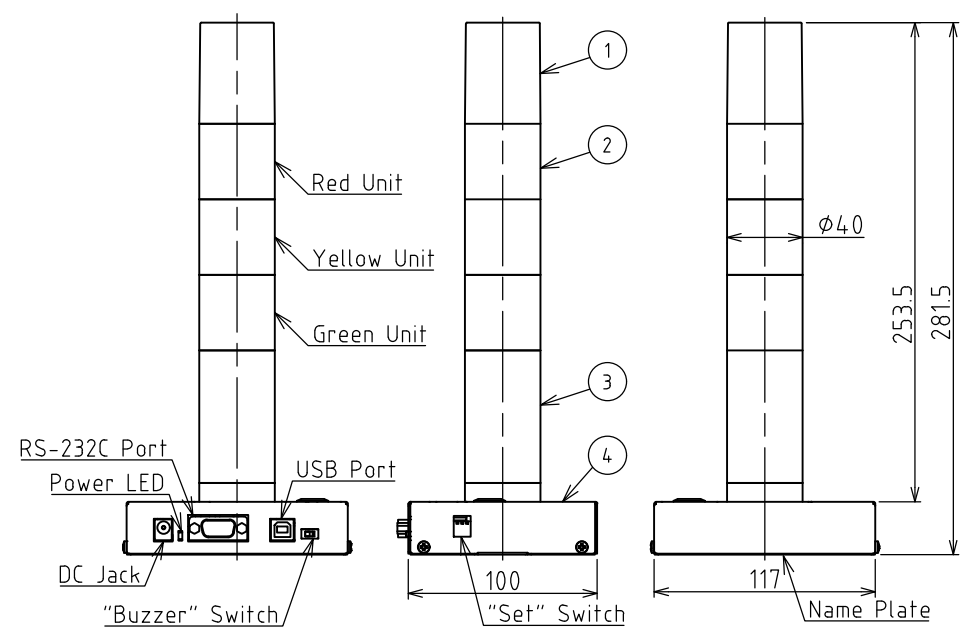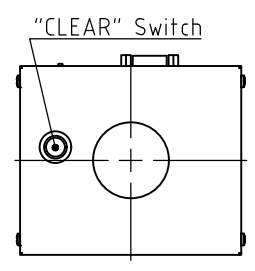| Signal Tower Control		Controllable with PHE Command or PHU Command
	PHE Command	ON and Flashing and OFF can be controlled
	PHU Command	ON and OFF can be controlled
Buzzer Control		Controllable with PHE Command
	PHE Command	ON and Pattern and OFF can be controlled
"Clear" Switch		Signal Tower OFF and Buzzer OFF can be controlled

4.2. Main Unit Status Acquisition Function

| Status acquisition	Signal Tower Status, Buzzer Status
Body Unit Information acquisition	Firmware Version, Identification number, Switch Status

4.3. Main Unit Setting Function

Operation Mode Setting		Normal Operation Mode, PHU Compatible Mode, Firmware Update Mode
	Normal Operation	It is a mode that operates with the PHE command.
	PHU Compatible	It is a mode that operates with the PHU command.
	Firmware Update	This mode is used to update main unit firmware.
Identification Number Setting		Identification number for identifying the main body can be set
Buzzer Setting		Buzzer ON and Buzzer OFF can be selected using "Buzzer" Switch
		Buzzer volume can be selected using DIP Switch in Buzzer Unit.

PATLITE Corporation

"CLEAR" Switch

1
2

Red Unit

Yellow Unit

Green Unit

3

4

RS-232C Port
Power LED
USB Port
DC Jack
"Buzzer" Switch
"Set" Switch

φ40

253.5
281.5

100
117
Name Plate

No.	Names	Material	Color
1	Buzzer Unit	PC	Off-white
2	LED Unit	PC	Clear
3	Tower Body	PC	Off-white
4	Main Body	SECC	Off-white/Medium Gray

74
(1530)
43.5
35.3
AC Plug

AC Adaptor(Dimensions)
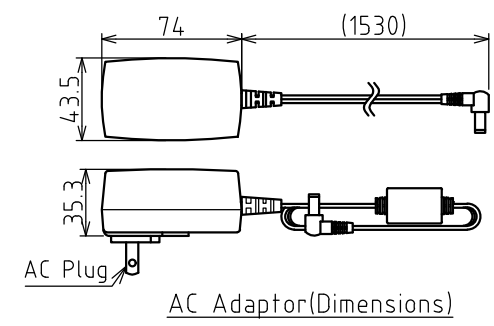
番号 No.	部品名 Part Name	数量 Qty.	記事 Remarks

機種 Model	PHE-3FB3	特注No. S.P.No.	–	図名 Name	Outer Dimensions Drawing

品目コード Part No.		尺度 Scale	三角法 3rd Angle P.	単位 Unit mm	株式会社 パトライト PATLITE Corporation

Ver.2.0