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SPECIFICATIONS

Product Name: Interface Converter

Model: PHE-3FB3□-RYG

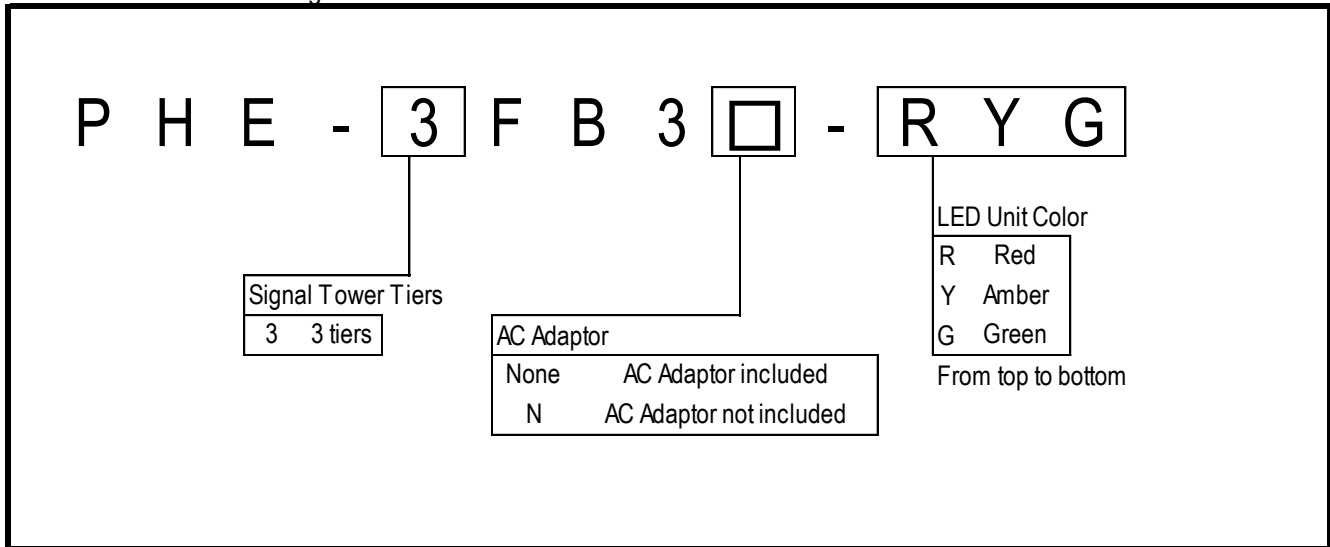
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1. General Specifications

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 KC (KN 61000-6-2, KN 61000-6-4) *2 PSE Compliant AC Adaptor	
Remark		*1 : N type excluded *2 : Only N type CE Marking UL/cUL Listed : PHE-3FB3-RYG UL/cUL Recognized Component : PHE-3FB3N-RYG	

2. Model

2.1. Model Number Configuration



2.2. Model Number List

PHE-3FB3-RYG	PHE-3FB3N-RYG
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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

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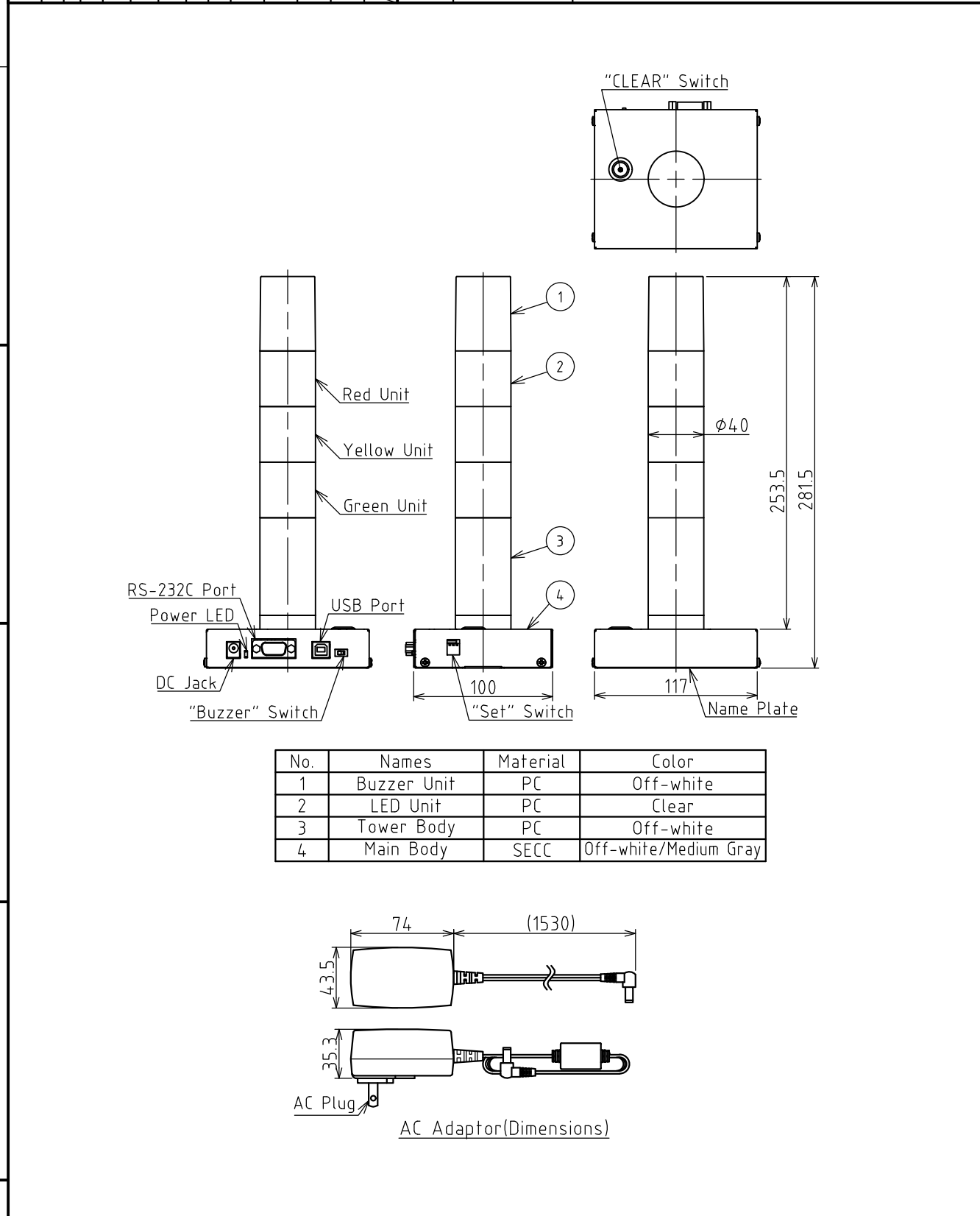
4.2. Main Unit Status Acquisition Function

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.

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A 指定公差 General Tolerance	角度公差 Angular Tolerance ±[°]		寸法公差 Dimensional Tolerance ±[mm]		図番 Drawing No.		ページ Page
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	短辺長 Length of short side				改訂 Rev.	年月日 Date	
					改訂履歴 Revisions		
	精 f	中 m	粗 c	精 f	中 m	粗 c	
	粗 v			粗 c			



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