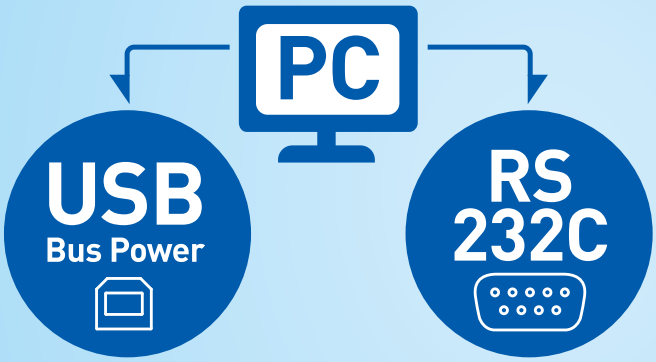
PATLITE®

Interface Converter

PHE-3FB3
PHC-D08

2-Way Connection



Interface Converter
PHC-D08

USB Bus Power | RS 232C | DC24V Power Supply Output

CE RoHS cULus *Only N type is UL and CE certified.

Interface Converter
PHE-3FB3

USB Bus Power | RS 232C | Signal Tower Φ40 | Alarm 4 Sounds | Output 80dB | Flashing Pattern 2

CE RoHS UL CERTIFIED Non N type | cULus N type | KC N type

File download

You can download the following from our homepage.

- User's Manual
- USB Driver Installation Manual
- USB Driver

* For this product, a software program which creates the data output from the USB/RS-232C port of a personal computer is required from the user.

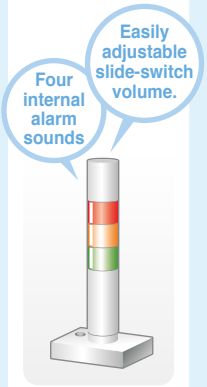
www.patlite.com

Easy to control from a personal computer. Information is given intelligibly with light and sound.

USB Connections PHE PHC

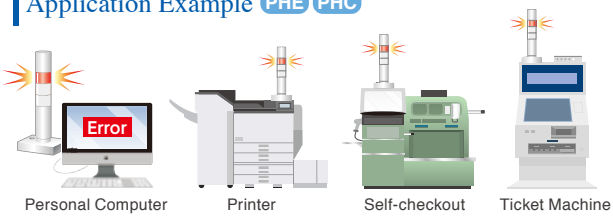
* The USB Cable (type A male to type B male) is not included. Please purchase separately.

Various Alarm Sounds PHE



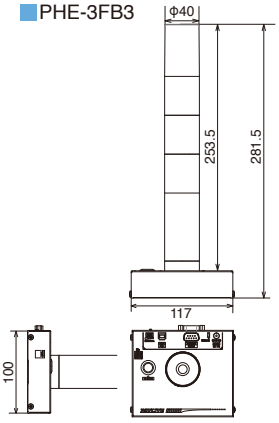
Sound can also be transmitted. PHE

Application Example PHE PHC

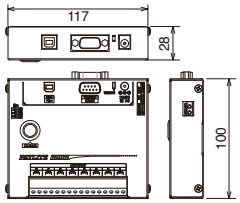


Dimensions (Unit: mm)

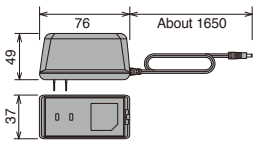
PHE-3FB3



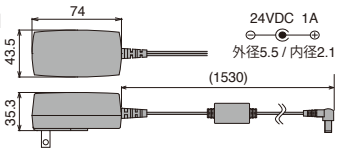
PHC-D08



AC Adaptor included (except for N Type) PHC



AC Adaptor included (except for N Type) PHE



RS-232C Port Wiring

Signal	Pin No.		Pin No.	Signal
TXD	2		2	RXD
RXD	3		3	TXD
GND	5		5	GND
CTS	7		7	RTS
RTS	8		8	CTS

* The RS-232C straight cable for wiring is not included with this product. Please purchase separately.

Communication Specifications

* Be sure to download and read the detailed operation manual which can be found at our homepage.

Communication Data Format

		Header	ID	Command	Data		End Code
					PHE	PHC	
Send Data	ASCII Code [HEX Code]	@ [40H]	?? [3FH 3FH]	Refer to the command list	By command		! [21H]
Byte Count		1Byte	2Byte	1Byte	0~6 Byte	0~8 Byte	1Byte

Comand List

Command	Number of Data Bytes		Function	
	PHE	PHC	PHE	PHC
1 [31H]	2Byte		Turns on specified Signal Tower light and sound buzzer.	Turn ON Specified Output T erminal Block
0 [30H]	2Byte		Turns off specified Signal Tower light and stop buzzer.	Turn OFF Specified Output Terminal Block
? [3FH]	2Byte		Set ID for this product.	
S [53H]	6Byte	8Byte	Control Signal Tower and buzzer operation.	Control Specified Output Terminal Block
G [47H]	0Byte		Acquire Signal Tower and buzzer conditions.	Obtain Output Terminal Block condition
C [43H]	0Byte		Turn off Signal Tower light and stop buzzer.	Turn all Output Terminal Block OFF
M [4DH]	0Byte		Obtain information on this product.	

For PHE
- A "1" and "0" Command has compatibility with the PC Controlled Signal Tower PHE-3FBE1.
- Command "S" can be used to control flashing pattern 2 of the Signal Tower and buzzer patterns 3 and 4.
- The communication protocol can also be used with the Model PHU-3.

For PHC
- A "1" and "0" Command has compatibility with the PC Output Relay Unit, PHC-100A.
- Command "S" can simultaneously control an output terminal to turn "ON" or "OFF."

Transmission Example

In this example, the Signal Tower red shall flash pattern 1, amber will light up, and buzzer pattern 2 shall sound.

Send Data							
Header	ID		Command		Data		End code
@ [40H]	? [3FH]	? [3FH]	1 [31H]		3 [33H]	2 [32H]	! [21H]

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	0

Green Unit Flashing Pattern 1
Amber Unit Flashing Pattern 1
Red Unit Flashing Pattern 1
Buzzer Pattern 2
Red Unit Lighting
Amber Unit Lighting
Green Unit Lighting
Buzzer Pattern 1

How to Order

PHE-3FB3□-RYG

AC Adaptor
Blank: AC Adaptor included
N: AC Adaptor not included

PHC-D08□

AC Adaptor
Blank: AC Adaptor included
N: AC Adaptor not included

Specifications

Model	PHE-3FB3 PHE-3FB3N(AC Adapter not included)		PHC-D08 PHC-D08N(AC Adapter not included)
Rated Voltage	Main Unit	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)	0.4W (100VAC)
	Maximum	4.4W (100VAC)	16W (100VAC)
Operating Ambient Temperature	0°C to +40°C		
Operating Ambient Humidity	20% to 85% RH (No Dew or Condensation)		
Mounting Location and Direction	Indoor, Upright		
Protection Rating	IP20		
Mass	545g (±10%)		370g (±10%)
Interface	USB Port	USB 2.0 Conformity (Bus-powered) Standard Type B (Female)	
	Serial Port	RS-232C Conformity D-Sub 9 pin (Male)	
Luminous Intensity *1	Red, Amber, Green Clear Lens		—
Sound Pressure Level	80dB or more (1m from the buzzer)		—
External Contact Output	Number of Contacts	—	8
	Contact Specifications	—	Non-Voltage Contact (Normally Open Contact)
	Rated Voltage and Current	—	30VDC/3A
The power supply output terminal *2	Rated Power Output	—	24VDC/500mA or less
Accessories	AC Adaptor (except for N Type), Installation Manual, Rubber Feet		
Sound Reduction sheet	○		—
Supported OS *3	Windows 7(32/64bit), Windows 8(32/64bit), Windows 8.1(32/64bit), Windows 10 (32/64bit), Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2		

*1 The Signal Tower may be dark when being operated by USB bus power. *2 The power supply output terminal cannot be used without an AC Adaptor connected. Be sure to connect an AC Adaptor when using the power supply output terminal.
* 3 "Windows", and the Microsoft Corporation are registered trademarks of the Microsoft Corporation of America and other countries.

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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.

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