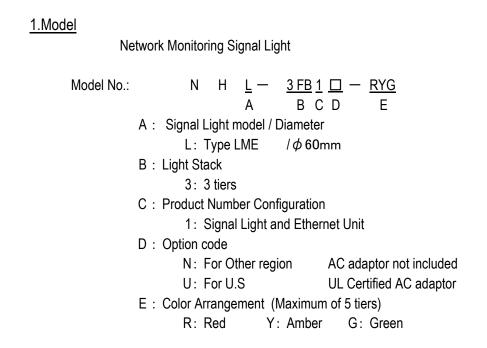
# **Specification**

## Network Monitoring Signal Light NHL-3FB1D-RYG

### **PATLITE** Corporation

			Revision history	Revision history		
Date	Symbol	page	Revision contents	Reason	Sgn	Chk
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### **SPECIFICATIONS**

[General Specifications]

	5 tiers						
	4 tiers						
Model	3 tiers	NHL-3FB1U-RYG	NHL-3FB1N-RYG				
	2 tiers						
	1 tier						
UL registration model		NHL-3FB1U-RYG	NHL-3FB1N-RYG (Remarks ※1)				
Rated \	/oltage	AC Adaptor input: 100V~240V AC output: DC 24V	24V DC				
Operating	g Voltage	Rated Voltage ±10%					
Inrush (	Current	AC adaptor (at full load) 30A(100V AC) ,60A(230V AC) 23A (24V DC)					
Power Cor	nsumption	Per Unit Red : 1.0W Amber : 1.0W Green : 0.8W Body : 2.0W Buzzer: 2.0W					
Operating Temp	perature Range	$0^{\circ}C \sim + 40^{\circ}C$					
Relative	Humidity	from 20-80%RH (	(No Condensation)				
Storage Temp	erature Range	- 10 °C ⁄	~ + 60°C				
Relative	Humidity	from 20-80%RH (	(No Condensation)				
Mounting	Location	Inc	doors				
Mounting	Direction	Ur	oright				
Protectio	n Rating	IF	20				
Environr	mental Condition	Self-Declaration based on IEC 60529					
Vibration F	Resistance	19.6m/s2					
Insulation F	Resistance	More than $1M\Omega$ at 500VDC between the terminals and the chassis					
Withstand	d Voltage	VAC applied for 1min between terminals and chassis without breaking insulation					
Floobin	a Dete	Flashing Pattern 1: 500ms "ON", 500ms OFF (Repetitive)					
Flashin	ig Rale	Flashing Pattern 2: 80ms "ON", 170ms "OFF", 80ms "ON", 670ms "OFF"					
Sound Pres	ssure Level	Max: 80dB or more Mir	n: 70dB or less ( at 25°C)				
Env	vironmental	Distance from buzzer diaph	ragm (Upright Position)of 1m				
(	Condition	and "A'	'balance.				
Luminous	s Intensity	Red: 960mcd or more Amber: 900mcd or more Green: 1070mcd or more					
Mass (Tolera	,	800g					
(AC adaptor		•					
Dimen	nsions	Refer page 9/9 in this specification					
Conformity	Standards	EMC Directive (EN 55032, EN 55024) RoHS Directive(EN 50581) FCC Part15 SubpartB Class B UL Listed (File No.24210)	EMC Directive (EN 55032, EN 55024) RoHS Directive(EN 50581) FCC Part15 SubpartB Class B UL Listed (File No.24210) KC mark (Korea Certification mark)				
Buzzer Sound		Three-position adjustable switch for "High", "Low" and "OFF"					
Signal Light		NHL : φ60 Type Clear Globe					
"Clear" Switch		Pushbutton Switch					
"Test" Switch		Pushbutton Switch					
"Reset" Switch		Pushbutton Switch					
"Buzzer" Switch		Slide Switch					
Remarks		Conforms to the CE Requirements ×1 When using AC adapter is required to conform to the standard.					
		AC adapter output current : 1A max					

Model	NHL-3FB1U-RYG		NHL-3FB1N-RYG			
	Physical Layer	: 10BASE-T/100BASE-TX (Auto negotiation/Full Duplex/Half Duplex)				
Communication Mathed	Data Link Layer	: CSMA•CD				
Communication Method	Network Layer	: IP•ARP•ICMP				
(Ethernet)	Transport Layer	: TCP•UDP				
	Application Layer	: HTTP • SNMP • RSH • SMTP • NTP • POP • DNS Socket • DHCP • SLMP				
Accessories	Rubber Feet,Support Base,		Rubber Feet,Support Base,			
Accessories	Adhesive Seal, AC Adaptor		Adhesive Seal			
Optional Parts	Parts Wall Bracket Partition Mount Bracket					

#### [Functionality Specifications]

This product receives commands transmitted through the Ethernet, to control lighting,

flashing and buzzer sounds for the Signal Light, and to send E-mail notifications, etc.

	Continuous	: "ON" Lighting		
Lighting Detterr	Flashing Pattern 1	: 500ms "ON", 500ms OFF (Repetitive)		
Lighting Pattern	Flashing Pattern 2	: 80ms "ON", 170ms "OFF", 80ms "ON", 670ms "OFF"		
		(Repetitive)		
	Pattern 1	: Fast Intermittent		
Buzzer Pattern	Pattern 2	: Slow Intermittent		
Duzzer Fallem	Pattern 3	: Fast Burst		
	Pattern 4	: Continuous Tone		
"Clear" Switch	The bzzer and signal light	can be stopped. Clear operation can be set with the		
"Test" Switch	Pressing the button executes a test pattern to check all operations of this product.			
	Even if the "Clear" switch is pressed during the test, it won't stop.			
"Reset" Switch	A reset can be done by pressing this button.			
Neset Switch	The event log is erased when the button is pressed.			
Buzzer Switch	Adjusts the buzzer sound level to "High", "Low" and an "OFF" position.			
	The Signal Light lights and buzzer can be controlled by using Patlite's exclusive			
Socket Function	PNS command, or an interchangeable PHN command.			
	Select the protocol for TCP or UDP.			
	When the following event occurs, an E-mail message is transmitted to the registered			
	address:			
	TRAP Reception			
E-mail Sending	<ul> <li>"Clear" Switch pushed</li> </ul>			
	Monitoring Abnormality detected			
	Up to eight titles, text, and E-mail destinations can be registered.			
	Corresponds to "POP before SMTP" and "SMTP_AUTH" protocol.			
	Signal Light	Signal Light is done in lighting and flashing,		
	Buzzer Control Command	and it sounds buzzer.		
RSH Function	State Command	Get does the state of signal light and the buzzer.		
	Reset Command	The operation of Signal Light and Buzzer is returned to normal mode.		
	Test Command	Signal Light and the buzzer are tested.		

		The Ping command is generated from this product via			
	Ping Monitoring	the network.			
		Monitoring Nodes : Maximum of 24			
Monitoring Function		Monitoring cycle : 60s (Not adjustable)			
Monitoring Function		The "Socket Communication" monitors an application			
	Application Monitoring	through a socket.			
	, pphoadon monitoring	Monitoring Nodes : Maximum of 4			
		Monitoring cycle : 1~600s (Adjustable)			
Web Setup Tools		ware Update and product resets are controlled.			
SNMP Agent		esponds to received SNMP and event commands.			
SNMP Manager Function		nts correspond to received TRAP commands.			
Logging Function	The contents containing the date and time of the occurrence of events and event				
	name are displayed. The event list can be downloaded via the Web Setup Tool.				
PNS Manager Link Function	Network settings can be done from the "PNS Manager" application program.				
SLMP Function	Sends a SLMP-Command to retrieve the status of the device.				
Time Correction Function	The internal clock in this product can be corrected by connecting to an NTP server.				
Normal Mode	The Signal Light can be set for a condition to indicate a "Normal Mode".				
Function Setup	The "Normal Mode" is set after a start-up, reboot,				
	when a "Clear" command is received or by pressing the "Clear" switch.				
Configuration Up-load / Download Function	Configurations can be saved and uploaded at a later time by using the setup the configuration file from other equipment can also be up-loaded.				
	This product has two options for being returned to factory default settings.				
	One is to leave the network settings remaining				
Initialization Function	while other settings are returned to their factory default values.				
	The second is to set all settings, including the network settings,				
	to their factory default value.				
Firmware Update Function	The firmware can be updated through the Web Setup Tool.				
	(The current firmware version can be seen on the "Setup Table Entry Screen")				
XML data output function	Outputs the data in XML fo	rmat the state of the "sounds buzzer" and "Signal Light".			

#### [ Caution Before Handling ]

- This product receives severe quality control and inspection requirements prior to shipment, but if some failure or defect is found, please contact the place of purchase, or your PATLITE Sales Representative (indicated on the last page) to solve the issue.
- Please understand that our company does not take any responsibility for damage and other disadvantages this product (software included) has caused due to product defect, failure or any error in the use of this product by the customer or third party.
- When a repair request is made, our company does not take any responsibility for the incidental expenses related to such things as the removal and re-attachment of this product to machinery, or for the repair of such machinery, even if during the term of a guarantee.

#### 4-1 Precautions for Safety

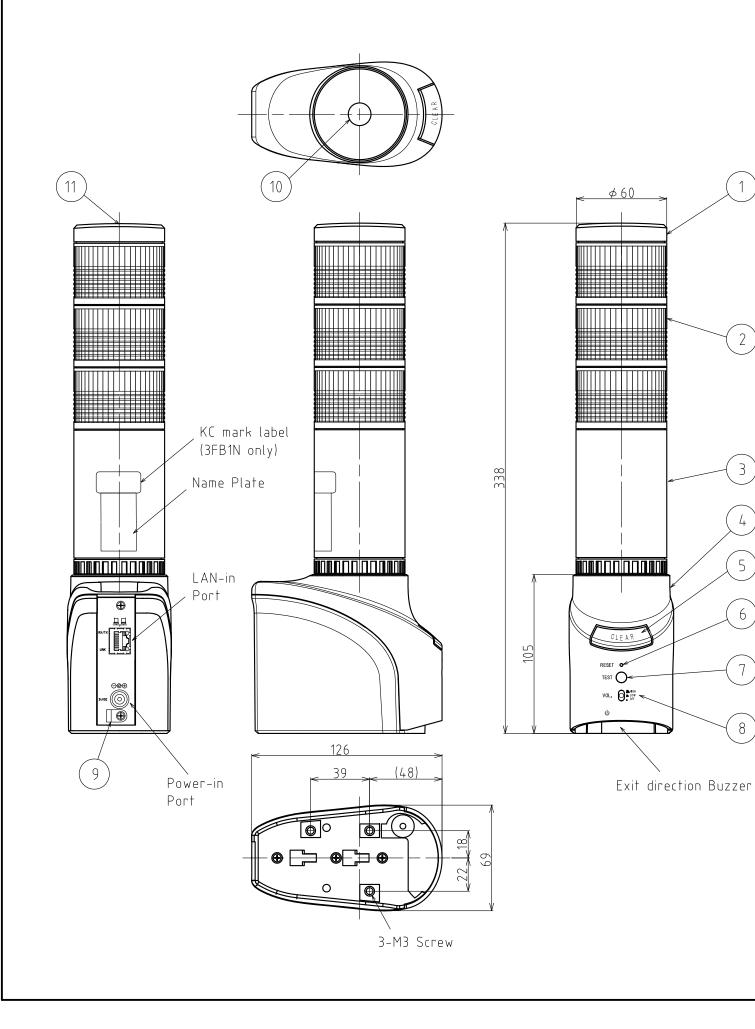
- If foreign substances, such as water, medicine; or metals, such as copper, low carbon steel wire, fall into this product, please do not use it.
   Failure to comply may result in electric shock or damage to this machine.
- The power supply ratings for this product is AC 100-240V (Primary AC Adaptor Input) or DC24V (AC Adaptor Secondary Output for DC jack connection).
   Do not connect to a voltage source exceeding the rated voltage tolerance.
   Failure to comply will result in internal circuitry damage. In addition, circuitry damage may lead to a fire.
- Prior to maintenance or repair, be sure to turn off the power. Failure to comply may result in damage or electric shock.
- This product is not designed for applications which demands high safety requirements, such as medical application equipment or systems used in connection directly, or indirectly, with human life.

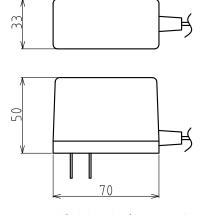
If this product is used for applications in which equipment of higher reliability than the general application emands, such as a computer system, etc., please use suitable safety design countermeasures against system failure, etc.

#### 4-2 Installation

- Do not modify or disassemble this machine. Some portions contain high voltage, which is dangerous. In addition, modifications or disassembly may result in product failure.
- Avoid the intrusion of foreign substances, such as water or chemicals; or metals, such as metal filings, from entering this machine. Failure to comply may result in product failure or electric shock.
- Do not locate near high temperature sources, open flames or humid places.
   Moreover, do not use this machine in a place which can be exposed to corrosi ve or combustible gas.
- Do not allow this product to fall or receive strong shocks. Failure to comply may result in damage, failure, or electric shock.
- When using in a place where dust can accumulate, periodically remove the dust from the power plug. Dust accumulating on the plug may result in a fire, if it is allowed to accumulate too much dust.
- Do not touch the power receptacle with wet hands. It may result in electric shock
- Do not tug hard at the cable. Failure to comply may result in an open-circuit, short-circuit, and cause damage to the connector.
- Use only po wer supply ratings between AC 100-240V (Primary AC Adaptor Input) or DC24V (AC Adaptor Secondary Output for DC jack connection).
   If the voltage is different from the used power supply, it may result in fire or cause electric shock.

- Do not damage the power cable. Also, do not use a damaged cable. It may result in fire or electric shock.
- Please avoid the use multiple outlet plugs or cables. It may result in fire or electric shock
- This machine is for INDOOR use only. Do not use it outdoors.
- Avoid installation of this machine in the following locations:
  - \* Where its exposed to direct sunlight
  - \* Where high temperatures, such as near fire, or in a humid place
  - \* Where drastic temperature and humidity changes
  - \* Environment having poor ventilation
  - \* Where vibrations exceeding the specification occurs
  - \* Where corrosive gas is present
  - \* Where its exposed to a salty air environment
  - \* Where it is exposed to a strong magnetic field
  - \* Where its exposed to dust, iron powder, etc.
  - \* Where its exposed to high concentrations of chemicals or oil mist
- 4-3 Maintenance
- Do not wipe this product with volatile chemicals, or chemically treated dust cloth containing benzene, thinner etc.
- Wipe this product with a soft dry cloth.
- When it is difficult to remove dirt by wiping with a dry cloth, dampen the cloth with water, then firmly wipe it.





<pre> Chart 1&gt; </pre>			84		Support plate(A Mounting Dimens	ort plate	
		Accessories		ries	Labels		
Model				adapter	KC mar	`k	
NHL-3FB1U-R				○ (attached)	× (not atta		
NHL-3FB1N-R`	YG	○ (attached)		imes (not attached	○ (attache	d)	
Center screw			1	ML	GCFEW		
Cover seal		_	1		Sheet		
Power cable clamp		_	1		in 66		
Volume switch		_			BS		
Test switch	_		1	A	BS		
Reset switch		_	1				
Clear switch		_			BS	ļ	
Main body		_			BS		
Tower body		_	1 Stack		BS ofloctor: ARS		
LED units Head cover			Stack 1		eflector: ABS BS		
nead cover 部品名		 記目コード	数量		<u></u> 法 & 処理	記事	
Part Name		Part No.	<u> </u>		Size & Finish	≣⊡ <del>⊅</del> Remarks	
			<u> u-y-</u> ]		外観図 er Dimensior 株式会社 パト PATLITE Corpor	面 n Drawing ・ライト ration	
					NHL-3FB1U-W18	F-9_9	

< Chart 1>	e Diagram)		at Stole	7	pport plate(A unting Dimension	ort plate <u>ccessories</u> ) ice Diagram)
Model		Accessories Support plate AC adapt			KC mar	
NHL-3FB1U-R				)	× (not atta	iched)
NHL-3FB1N-R	YG O (attached)	imes (not attached) $ imes$ (attached)			(t	
11Center screw10Cover seal9Power cable clamp		1	F	14 Scr 20 She Nylon (	et	
8 Volume switch		1		ABS	00	
7 Test switch	_	1		ABS		
6 Reset switch	_	1		-		
5 Clear switch	_	1	ABS			
4 Main body 3 Tower body		1	ABS ABS			
3 Tower body 2 LED units	_	Stack	ا مەر	ABS AS/ Reflec	tor: ARS	
1 Head cover		1		ABS		
番号部品名		数量	材料 &		& 処理	記事
No. Part Name	Part No.	Qty.			e & Finish	Remarks
		<u>~ ' </u>		Outer 株 PA	外観図i Dimension st会社 パト TLITE Corpor HL-3FB1U-W18	面 Drawing ライト ration