

# Explosion proof LED Signal Beacon and Electronic Sounder Max.123dB

## QN Series

Explosion proof LED signal beacon & electronic sounder with convenient selection of steady, flashing, strobe, and simulated revolving operation



QNVS / QNVS-H

### PRODUCT SPECIFICATION

QNVS | QNVS-H  
QNHS | QNHS-H

**Materials** Housing-Al, Horn housing-PC,  
Lens-Tempered glass, Filter-PC

**Ambient operating temperature**  
-40°C ≤ Tamb ≤ +70°C (T5), -40°C ≤ Tamb ≤ +55°C (T6)

**Sound volume**  
QNVS/QNHS-Max.118dB at 1m,  
QNVS-H/QNHS-H-Max.123dB at 1m(Volume adjustable)

**Explosion protection rating**  
IECEX - Ex db IIC T6 Gb, IP66  
Ex db IIC T5 Gb, IP66  
ATEX - Ex db IIC T6 Gb, IP66  
Ex db IIC T5 Gb, IP66

NEPSI, CCC - Ex db IIC T6 Gb, IP66

KCs - Ex db IIC T6, IP66

**Certificates** ATEX, IECEX, NEPSI, CCC, KCs

**Housing standard color** Red

**Cable entry** 1/2" NPT

**Flashing rate(LF type)** 60-80 flashes/min.

**Strobe rate(LS type)** 70-80 flashes/min.

**Simulated revolving rate(LR type)** 120-140RPM

- Multiple lighting effects such as LED steady, flashing, strobe, and simulated revolving
- Features excellent shock and vibration resistance, maintenance significantly reduced with long-lasting LED light source
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- Features superior durability with aluminum housing
- Fully enclosed structure with protection rating of IP66

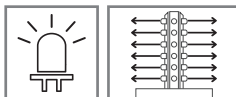
### Instruction for Light Function Switch

ON=1/OFF=0

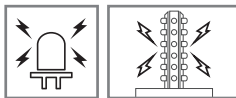
Can select 4 different kinds of light functions with switch configuration

No.	1	2	Operation
0	0	0	LED Steady
1	0	1	LED Flashing
2	1	0	LED Strobe
3	1	1	LED Simulated revolving flashing

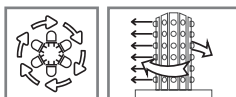
### Operation



- **LED Steady/Flashing**  
Repeat operation of LED light on/off



- **LED Strobe**  
Short LED steady/flashing. Creates a xenon flashing effect by providing maximum electric current



- **LED Simulated Revolving Flashing**  
LED flashes steadily around the cylindrical LED filaments which makes a simulated revolving effect

### Customization

- Explosion proof cable gland attached type available(Standard type does not come with explosion proof cable gland)
- 2 ways cable entries
- Customized cable entry (3/4" NPT, M20×1.5, M25×1.5) available

### QNVS/QNVS-H Explosion Proof LED Signal Beacon Light and Electronic Sounder, Max.123dB






Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
QNVS	DC12V -24V	Max. 1.4A	· WS-5 Warning sounds: Max.118dB · WP-5 Special warning sounds: Max.118dB · WM-5 Melodies: Max.118dB · WA-5 Alarms: Max.116dB · WV-5 Customizable voices: 110-115dB	IECEX	7.50Kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V -230V	Max. 390mA		ATEX	7.65Kg	
QNVS-H	DC12V -24V	Max. 3.4A	· WS-5 Warning sounds: Max.123dB · WP-5 Special warning sounds: Max.123dB · WM-5 Melodies: Max.123dB · WA-5 Alarms: Max.121dB · WV-5 Customizable voices: 115-120dB	KCs	7.50Kg	
	AC110V -230V	Max. 560mA		CCC	7.65Kg	

※ Max.built-in volume feature is based on WS, WP-Ch1 / WM-Ch5 / WA-Ch5.

※ In case of customized WV 5 tone type, there may be difference of volume depending on user's audio file type.



## QNHS/QNHS-H Explosion Proof LED Signal Beacon Light and Electronic Sounder, Max.123dB

Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
QNHS	DC12V	Max.	· WS-5 Warning sounds: Max.118dB		7.50Kg	<div><div>● R-Red</div><div>● A-Amber</div><div>● G-Green</div><div>● B-Blue</div></div>
	-24V	1.4A	· WP-5 Special warning sounds: Max.118dB			
	AC110V	Max.	· WM-5 Melodies: Max.118dB		7.65Kg	
		-230V	390mA			
QNHS-H	DC12V	Max.	· WV-5 Customizable voices: 110-115dB		7.50Kg	
			· WS-5 Warning sounds: Max.123dB			
	-24V	3.4A	· WP-5 Special warning sounds: Max.123dB			
			· WM-5 Melodies: Max.123dB			
	AC110V	Max.	· WA-5 Alarms: Max.121dB		7.65Kg	
			-230V			560mA

※ Max.built-in volume feature is based on WS, WP-Ch1 / WM-Ch5 / WA-Ch5.

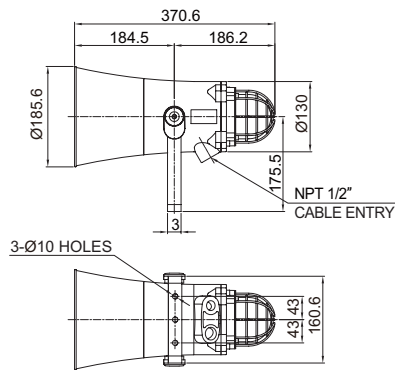
※ In case of customized WV 5 tone type, there may be difference of volume depending on user's audio file type.



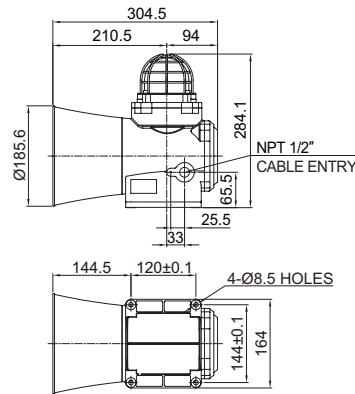
QNHS / QNHS-H

### Technical Diagram Units: mm

#### ·QNVS / QNVS-H

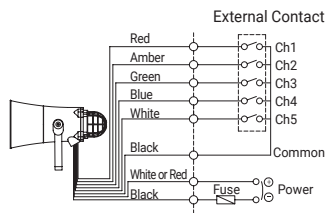


#### ·QNHS / QNHS-H

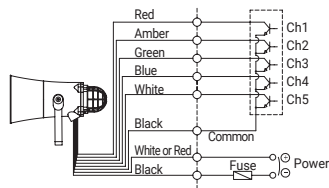


### Wiring Instructions

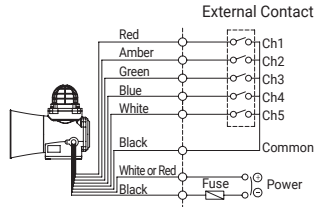
#### ·QNVS / QNVS-H DC/AC



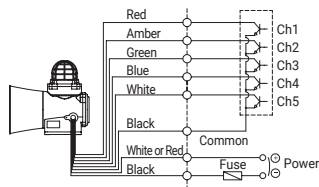
#### External transistor-NPN



#### ·QNHS / QNHS-H DC/AC



#### External transistor-NPN



### Ordering Specification

QNVS	WA	12/24	R	LC	IECEx
[Model number]	[Sound]	[Voltage]	[Color]	[Sound selection]	[Certificates]
QNVS	WS-Warning sounds	12/24	● R-Red	None-Built-in switch	IECEx
QNVS-H	WP-Special warning sounds	-DC12V-24V	● A-Amber	LC-External contact	ATEX
QNHS	WM-Melodies	110/230	● G-Green		KCs
QNHS-H	WA-Alarms	-AC110V-230V	● B-Blue		CCC(NPSI)
	WV-Customizable voices				



QN / QN-H

### PRODUCT SPECIFICATION

QN | QN-H

**Materials** Housing-Al, Horn housing-PC

**Ambient operating temperature**

-40°C ≤ Tamb ≤ +70°C (T5), -40°C ≤ Tamb ≤ +55°C (T6)

**Sound volume** QN-Max.118dB at 1m, QN-H-Max.123dB at 1m

**Explosion protection rating**

IECEX - Ex db IIC T6 Gb, IP66

Ex db IIC T5 Gb, IP66

ATEX - Ex II 2G Ex db IIC T6 Gb, IP66

Ex II 2G Ex db IIC T5 Gb, IP66

NEPSI, CCC - Ex db IIC T6 Gb, IP66

KCs - Ex db IIC T6, IP66

**Certificates** ATEX, IECEX, NEPSI, CCC, KCs

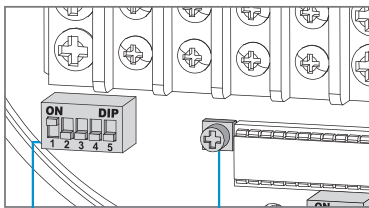
**Housing standard color** Red

**Cable entry** 1/2" NPT

- Explosion proof alarm horn sounder
- Various sound tones can be selected ; warning sound, alarm, melody
- Aluminum housing provides excellent durability
- Terminal for power wiring located inside of the housing

### Sound Selection Instructions and Wiring

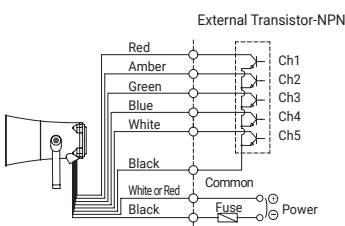
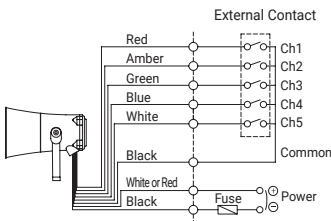
- Standard type: Select sound using the switch inside of the unit. When you turn on the dip switch for each channel, the designated sound will be played.



Ch1 | Ch2 | Ch3 | Ch4 | Ch5  
Volume

- Customization : External contact(LC)  
In case of select sound between external contact and transistors, sound line is threading as customization when product released(LC).

### QN / QN-H DC/AC



### QN Explosion Proof Electronic Sounder, Max.123dB

Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight
QN	DC12V-24V	Max. 1.15A	· WS-5 Warning sounds: Max.118dB · WP-5 Special warning sounds: Max.118dB · WM-5 Melodies: Max.118dB	IECEX ATEX KCs	5.15Kg
	AC110V-230V	Max. 300mA	· WA-5 Alarms: Max.116dB · WV-5 Customizable voices: 110-115dB		5.17Kg
QN-H	DC12V-24V	Max. 2.9A	· WS-5 Warning sounds: Max.123dB · WP-5 Special warning sounds: Max.123dB · WM-5 Melodies: Max.123dB	CCC NEPSI	5.15Kg
	AC110V-230V	Max. 470mA	· WA-5 Alarms: Max.121dB · WV-5 Customizable voices: 115-120dB		5.17Kg

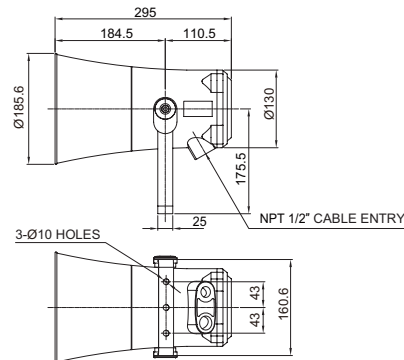
※ Max.built-in volume feature is based on WS, WP-Ch1 / WM-Ch5 / WA-Ch5.

※ In case of customized WV 5 tone type, there may be difference of volume depending on user's audio file type.

### Technical Diagram

Units: mm

QN / QN-H



### Customization

- Explosion proof cable gland attached type available (Standard type does not come with explosion proof cable gland)
- 2 ways cable entries
- Customized cable entry (3/4" NPT, M20 x 1.5, M25 x 1.5) available

### Ordering Specification

QN	WM	12/24	LC	IECEX
[Model number] QN QN-H	[Sound] WS-Warning sounds WP-Special warning sounds WM-Melodies WA-Alarms WV-Customizable voices	[Voltage] 12/24-DC12V-24V 110/230-AC110V-230V	[sound selection] None-Standard type LC Type-Uses external contact	[Certificates] IECEX ATEX KCs CCC(NEPSI)