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 Ⅰ 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⟩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
**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
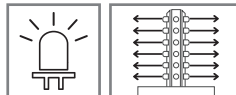- Fully enclosed structure with protection rating of IP66
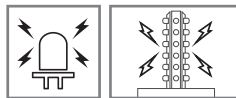
Instruction for Light Function Switch

ON=1/OFF=0

Can select 4 different kinds of light functions with switch configuration
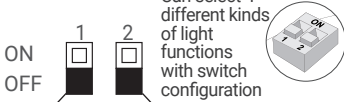
No.	1	2	Operation
0	0	0	LED Steady
1	0	1	LED Flashing
2	1	0	LED Strobe
3	1	1	LED Simulated revolving flashing

Customization

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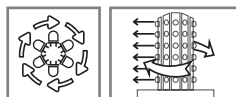· Customized cable entry (3/4" NPT, M20×1.5, M25×1.5) available

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

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 ATEX KCs CCC Ex NEPSI	7.50Kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V -230V	Max. 390mA			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		7.50Kg	
	AC110V -230V	Max. 560mA			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.

IP66	+70℃ -40℃	+55℃ -40℃	HORN	118dB	123dB	NPN	RoHS

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

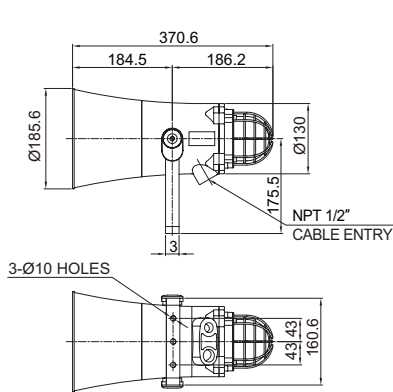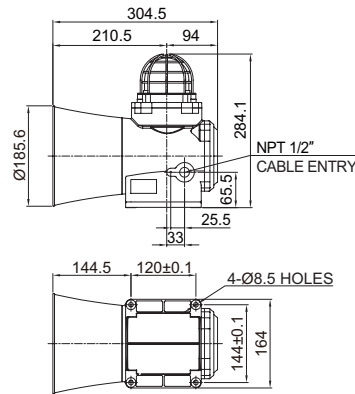| Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
QNHS	DC12V -24V	Max. 1.4A	· WS-5 Warning sounds: Max.118dB · WP-5 Special warning sounds: Max.118dB · WM-5 Melodies: Max.118dB · WA-5 Alarms: Max.116dB · WV-5 Customizable voices: 110-115dB	IECEx ATEX KCs CCC Ex NEPSI	7.50Kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	AC110V -230V	Max. 390mA			7.65Kg	
QNHS-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		7.50Kg	
	AC110V -230V	Max. 560mA			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
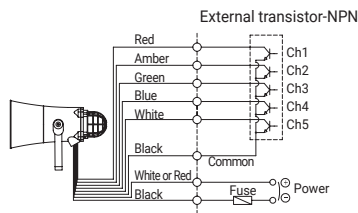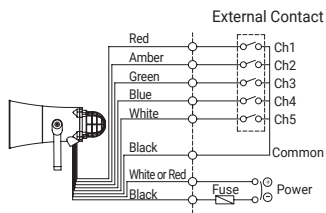
Technical Diagram Units: mm

·QNVS / QNVS-H

370.6
184.5 186.2
Ø185.6
Ø130
175.5
3
NPT 1/2" CABLE ENTRY

3-Ø10 HOLES
43 43 160.6

·QNHS / QNHS-H

304.5
210.5 94
Ø185.6
284.1
65.5
25.5
33
NPT 1/2" CABLE ENTRY

144.5 120±0.1
4-Ø8.5 HOLES
144±0.1 164

Wiring Instructions

·QNVS / QNVS-H DC/AC

External Contact
Red — Ch1
Amber — Ch2
Green — Ch3
Blue — Ch4
White — Ch5
Black — Common
White or Red
Black — Fuse — Power

External transistor-NPN
Red — Ch1
Amber — Ch2
Green — Ch3
Blue — Ch4
White — Ch5
Black — Common
White or Red
Black — Fuse — Power

·QNHS / QNHS-H DC/AC

External Contact
Red — Ch1
Amber — Ch2
Green — Ch3
Blue — Ch4
White — Ch5
Black — Common
White or Red
Black — Fuse — Power

External transistor-NPN
Red — Ch1
Amber — Ch2
Green — Ch3
Blue — Ch4
White — Ch5
Black — Common
White or Red
Black — Fuse — Power

Ordering Specification

QNVS	-	WA	-	12/24	-	R	-	LC	-	IECEx

[Model number]
QNVS
QNVS-H
QNHS
QNHS-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

[Color]
● R-Red
● A-Amber
● G-Green
● B-Blue

[Sound selection]
None-Built-in switch
LC-External contact

[Certificates]
IECEx
ATEX
KCs
CCC(NEPSI)

QN Series

| IP66	+70℃ -40℃	+55℃ -40℃	HORN	118dB	123dB	NPN	RoHS

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.
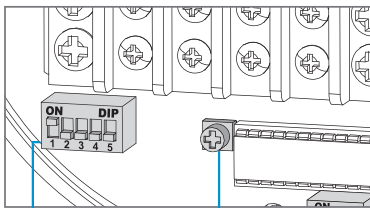
Volume
Ch1 | Ch2 | Ch3 | Ch4 | Ch5

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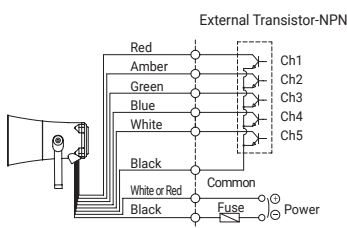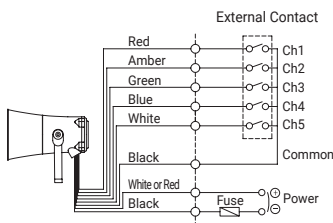
### QN Explosion Proof Electronic Sounder, Max.123dB

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 · WA-5 Alarms: Max.116dB · WV-5 Customizable voices: 110-115dB	IECEx ATEX KCs CCC NEPSI	5.15Kg
	AC110V-230V	Max. 300mA			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 · WA-5 Alarms: Max.121dB · WV-5 Customizable voices: 115-120dB		5.15Kg
	AC110V-230V	Max. 470mA			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

·QN / QN-H

Units: mm
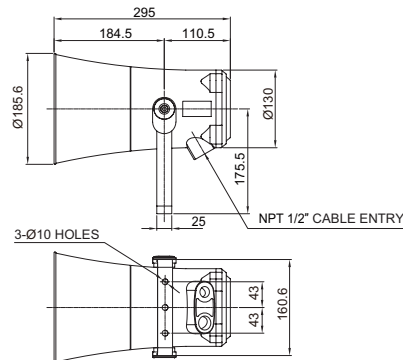
295
184.5 110.5
Ø185.6
Ø130
175.5
25
NPT 1/2" CABLE ENTRY
3-Ø10 HOLES
43 43
160.6

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

·QN / QN-H DC/AC

External Contact
Red - Ch1
Amber - Ch2
Green - Ch3
Blue - Ch4
White - Ch5
Black - Common
White or Red
Black - Fuse - Power

External Transistor-NPN

Red - Ch1
Amber - Ch2
Green - Ch3
Blue - Ch4
White - Ch5
Black - Common
White or Red
Black - Fuse - Power

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)