# SIGNALLING DEVICES

Easy Selection Guide











#### **Beacons – Selection**

The environment in which the beacon is to be installed will determine the product type and light intensity required.

#### **Environmental factors determining selection**

- Safe atmosphere or potentially explosive atmosphere (contact NHP for HAE product selection)
- The light output required for the beacon and distance the signal is required to travel
- The duration (duty cycle) the beacon has to operate, i.e. 4, 12, 24 hours / day
- The ambient level of existing light
- The IP rating of the beacon
- The electrical supply available

#### STEP 1: Select Beacon Type

Select one of four different types of visual warning beacons.

#### **XENON Beacons**

- Xenon beacons, or otherwise known as 'strobes,' operate by a discharge capacitor igniting xenon gas inside a tube creating a brilliant flash of light.
- The tube life of a Xenon beacon is approximately 5 million flashes, so if the application calls for a 24 hour duty cycle the beacon will only last approximately 2-3 months.
- The xenon beacon is the brightest and most effective visual signal.
- This type is best suited to critical safety applications that require the brightest flash available.

#### **LED Beacons**

- LED (light emitting diode) beacons are ideally suited for long life applications typically achieving up to 100,000 hours of service, or up to 10 years.
- · LEDs have a low power requirement.
- Light intensity of the LED beacon is not reduced by a coloured lens.
- Recommended for long term applications in remote or inaccessible areas.

#### **ROTATING Beacons**

- Rotating beacons are driven by an electric motor. Much like a light house, this beacon uses a parabolic reflector revolving around a continuously illuminated lamp on the vertical axis.
- · Rotating beacons should always be mounted in a vertical position.
- Rotating beacons have a relatively high current draw so they are not recommended for applications which involve continuous operation for long periods of time.
- · Ideal for warehouse and factories as the light beams bounce off structures.
- Shorter life compared to LED technology.

#### **FILAMENT Beacons**

- Filament beacons are a simple and well-proven technology.
- They generally give a much lower light output than Xenons as it takes longer for the lamps to fully illuminate.
- Ideal for low cost solutions in areas which are not affected by vibration.
- Suitable for applications involving prolonged continuous operation.

step





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## **STEP 2: Select Lens Colour**

Different lens colours are used to convey different messages to the observer.

- RED (R) Serious danger!
- AMBER (A) Warning, proceed with care.
- GREEN (G) OK, proceed as normal.
- BLUE (B) Specific process notice, such as toxic gas alarms.
- CLEAR (C) No specific meaning Ideal for night time use over long distance for maximum light output, or application specific.

The intensity of the light can be greatly reduced as it passes through the dome of the beacon. The extent of this reduction is dependent on the type of lamp used and the colour of the lens. The table below gives an indication of the percentage of light that will pass through the lens for different light sources and lens colours.

Colour	Filament	Halogen	Xenon
Clear	100%	100%	100%
Amber	70%	70%	70%
Red	30%	27%	23%
Green	12%	15%	25%
Blue	8%	10%	13%

#### Level of brightness

In general, if the viewing distance is doubled the light intensity observed is reduced to a quarter.



#### STEP 3: Select Voltage

Beacons are available in all common voltages for Australian and New Zealand supply voltages, such as 12 or 24 V DC, 110/230 V AC and 20-72 V AC.







## Different Types of Beacons

#### **XENON BEACON** KL 306

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	12/24 V DC	KL3061A
• 60 flashes per minute	blue	12/24 V DC	KL3061B
Vandal resistant locking	green	12/24 V DC	KL3061G
Polycarbonate housing	red	12/24 V DC	KL3061R
• 1.4 joule light output	amber	110 V AC	KL3063A
	red	110 V AC	KL3063R
	amber	230 V AC	KL3066A
	red	230 V AC	KL3066R
	green	230 V AC	KL3066G

60mr Ø85mm 27mm 2 x 4.5mm Slots

Note: Clear lens – available on indent.





Features	Lens colour	Voltage	Cat. no.
• IP 67	amber	10-100 V DC/ 20-72 V AC	MOX80-02A
Low current draw	green	10-100 V DC/ 20-72 V AC	MOX80-02G
• Wide voltage range (50 Hz)	red	10-100 V DC/ 20-72 V AC	MOX80-02R
500 mm flying leads	amber	115-230 V AC	MOX80-04A
• Two point or surface mount fixing	green	115-230 V AC	MOX80-04G
Best suited viewing distance up to	red	115-230 V AC	MOX80-04R
20 metres, subject to ambient light			

- Two Joule output @ 60 f.p.m
- Strobe output only

Note: Clear lens – available on indent.











#### XENON BEACON MOX 195

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	15-28 V AC/DC	MOX195-02WHA
60 flashes per minute	red	15-28 V AC/DC	MOX195-02WHR
• Wide voltage range (50Hz)	amber	180-265 V AC	MOX195-05WHA
Optically enhanced flash	red	180-265 V AC	MOX195-05WHR

• 5 joule light output





#### XENON BEACON MOX 200/201

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	12/24 V DC	MOX201-18A
• 50/60 Hz supply	blue	12/24 V DC	MOX201-18B
Strobe output only	green	12/24 V DC	MOX201-18G
• 10 joule output @ 60 f.p.m	red	12/24 V DC	MOX201-18R
• 7.5 joule output 'double flash' @ 90 f.p.m	amber	230 V AC	MOX200-22A
<ul> <li>Best suited viewing distance up to</li> </ul>	blue	230 V AC	MOX200-22B
100 metres, subject to light conditions	green	230 V AC	MOX200-22G
	red	230 V AC	MOX200-22R

Accessories	Cat. no.
Wall mount bracket – right angle	MO50001
Steel guard – plastic coated	MO50010

Note: 115 V AC available in MOX200-21\_. Refer NHP Pricelist – Part B.









## Different Types of Beacons

#### LED BEACONS MOLED 80

Features	Light colour	Voltage	Cat. no.
• IP 67	amber	10-100 V DC	MOLED80-02A
Low current draw	blue	10-100 V DC	MOLED80-02B
• Wide voltage range (50 Hz)	green	10-100 V DC	MOLED80-02G
• 500 mm flying leads	red	10-100 V DC	MOLED80-02R
• Two point or surface mount fixing	amber	85-265 V AC	MOLED80-04A
Clear colour lens to give maximum	blue	85-265 V AC	MOLED80-04B
light output	green	85-265 V AC	MOLED80-04G
• Best suited viewing distance up to	red	85-265 V AC	MOLED80-04R
20 metres, subject to light condition	S		

• Dual operation – static or flash @ 60 f.p.m







#### LED BEACONS MOLED 125

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	24 V DC	MOLED125-02A
• 50/60 Hz supply	red	24 V DC	MOLED125-02R
Low current draw	green	24 V DC	MOLED125-02G
• 48 LEDs	amber	115 V AC	MOLED125-03A
• Three modes of operation: static, flashing at	red	115 V AC	MOLED125-03R
60 f.p.m. and flashing at 120 f.p.m	green	115 V AC	MOLED125-03G
One metre flying lead (AC only)	amber	230 V AC	MOLED125-04A
• Best suited viewing distance up to 50 metres,	red	230 V AC	MOLED125-04R
subject to light conditions	green	230 V AC	MOLED125-04G

Accessories	Cat. no.
Wall mount bracket – right angle	MO50007
Steel guard – plastic coated	MO50010

Notes: Blue LED option available on indent.









#### ROTATING BEACONS MOR 400/401

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	24 V DC	MOR401-14A
Wide base for surface mounting	blue	24 V DC	MOR401-14B
Beam rotation is 120 rpm	green	24 V DC	MOR401-14G
• 50 Hz supply	red	24 V DC	MOR401-14R
• Best suited viewing distance up to	amber	230 V AC	MOR400-05A
100 metres, subject to light	blue	230 V AC	MOR400-05B
conditions	green	230 V AC	MOR400-05G
	red	230 V AC	MOR400-05R

Accessories	Cat. no.
Wall mount bracket – right angle	M050004
Steel guard – plastic coated	M050010

Note: 12 V DC, 115 V AC available. Refer NHP Pricelist – Part B.



#### ROTATING BEACONS MOR 88

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	12 V DC	MOR88-34A
Rotation is 160 rpm	blue	12 V DC	MOR88-34B
• 50 Hz supply	green	12 V DC	MOR88-34G
One metre flexible cord	red	12 V DC	MOR88-34R
One metre flexible cord	red	12 V DC	MOR88-34R

• Magnetic base

Car lighter attachment

Best suited viewing distance up to
100 metres, subject to light conditions

Accessories	Cat. no.
Wall mount bracket – right angle	MO50001
Steel guard – plastic coated	MO50010

Note: 24 V DC available. Refer NHP Pricelist – Part B.

 170mm	
Rubber Seal	135mm
(	

Magnet









#### STATIC FILAMENT BEACON MOSF 125

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	230 V AC	MOSF125-83A
• 50/60 Hz supply	blue	230 V AC	MOSF125-83B
• 65 mm diameter base	green	230 V AC	MOSF125-83G
Continuous illuminated beacon	red	230 V AC	MOSF125-83R

- Best suited viewing distance up to 20 metres, subject to light conditions
- Static output only

Accessories	Cat. no.
Wall mount bracket – right angle	M050007
Steel guard – plastic coated	M050003

Note: 12 V AC/ DC, 24 V AC/ DC, 115 V AC available. Refer NHP Pricelist - Part B.



## FLASHING FILAMENT BEACONS MOFF 200/201

Features	Lens colour	Voltage	Cat. no.
• IP 65	amber	230 V AC	MOFF200-87A
• 50/60 Hz supply	blue	230 V AC	MOFF200-87B
• Flashing output at 60 f.p.m.	green	230 V AC	MOFF200-87G
115 mm diameter base	red	230 V AC	MOFF200-87R

• Best suited viewing distance up to 100 metres, subject to light conditions.

Accessories	Cat. no.
Wall mount bracket – right angle	M050001
Steel guard – plastic coated	M050010



Note: 12 V DC and 115 V AC available on indent. 24 V DC available. Refer NHP Pricelist – Part B.





(Indicative control tower) including three lights and one piezo buzzer module.

#### 70mm Control Tower™ Stack Light Modules

Designed for multi-status signal applications. Control tower lights can be assembled from components giving the user full flexibility of design.

#### 1. Select tower modules (max. five modules)

- IP 65
- Polycarbonate body
- Flash rate 120 f.p.m

Descriptions	Lens colour	Voltage	Cat. no.
continuous, incandescent	green	24 V AC/DC	855TB24DN3
continuous, incandescent	red	24 V AC/DC	855TB24DN4
continuous, incandescent	amber	24 V AC/DC	855TB24DN5
continuous, incandescent	blue	24 V AC/DC	855TB24DN6
continuous, incandescent	clear	24 V AC/DC	855TB24DN7
continuous, incandescent	yellow	24 V AC/DC	855TB24DN8
flashing *, incandescent	green	24 V AC/DC	855TB24FN3
flashing *, incandescent	red	24 V AC/DC	855TB24FN4
flashing *, incandescent	amber	24 V AC/DC	855TB24FN5
flashing *, incandescent	blue	24 V AC/DC	855TB24FN6
flashing *, incandescent	clear	24 V AC/DC	855TB24FN7
flashing *, incandescent	yellow	24 V AC/DC	855TB24FN8
92.107 dual tone piezo style sounder	N/A	24 V AC/DC	855TB24TA3
80-103db 15 tone transducer style sounder	N/A	24 V AC/DC	855TB24TA1

Note: Light or piezo buzzer are classed as one module.

240 V AC and LED modules also available on request, refer NHP Pricelist - Part R.

#### 2. Select base for your light module/s

Descriptions	Cat. no.
Black base with cap 10 cm aluminium pole	855TBPM10C
or	
Surface mount (no pole) ½ npt thread	855TBCBC

\* Other options available, refer NHP Pricelist – Part R.

#### Sounder – Selection

#### Factors determining sounder selection

- Ambient noise in the environment
- The duration of signal required
- The noise level required and distance of signal travel
- Supply voltage
- · Location indoors or outdoors; nature of terrain
- Is visual indication also required?

#### What happens to sound over distance?

In selecting a sounder for a particular application, the table below can be used as a guide as to the sound level expected at a certain distance away. Local conditions such as wind speed and direction or objects masking the sound path will change the end result. In difficult conditions, the distances a sound can be heard may be significantly less.

#### Decibel Level at Distance from Source

	1	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140
	2	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134
	3	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130
	5	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126
_	10	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
e (m	20	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	14
once	30	50	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
m so	50	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106
froi	100	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
ance	200	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94
Dista	400	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
	500	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
	1000		=	=	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
	2000					=	=	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	3000								=	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
	5000										=	=	38	40	42	44	46	48	50	52	54	56	58	60	62	64	68
			100	dB	9	4 dB	6	88 di	В			82 o	dΒ														
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#### Decibel level (dB) at source



step

## STEP 1: Select Sounder Type

There are four different types of audible signals available.

#### **ELECTRONIC SOUNDERS**

- Most versatile device available.
- Low current consumption and relatively high output.
- Single or multi-tone acoustic sounds. Fast and slow warble, fast and slow pip and continuous note are available. Pre-recorded messages are also a possibility with the Nexus Voice.
- Volume control available.
- Visual and audible signals can be incorporated in one device.
- Designed for easy installation.

#### **MOTOR DRIVEN SIRENS**

- High frequency device.
- Suitable for disaster warnings.

#### BELLS

- Cost effective traditional signalling device.
- Medium dB output, delivering a clear loud ring .

#### BUZZERS

- Robust construction.
- Low cost.



#### STEP 2: Select Voltage

Electronic sounders are available in all common voltages for Australian and New Zealand supply voltages, such as 24 V DC and 110/230 V AC. In addition the NEXUS range has a wide voltage band of 9-60 V DC and is also available in low voltage 24-48 V AC for crane applications.

## **Electronic Sounders**



### SONOS

Features	dB@ 1m	Voltage	Cat. no.
• IP 65	93-106	9-60 V DC	KL2494
M20 cable knock-outs in base	93-106	110/230 V AC	KL2492

- 32 tones to choose from (including Australian alert and evacuation tones)
- Volume adjustment (20 dB turn down)
- Frequency range 400-2580 Hz
- KL2494 has provision for 2nd stage alarm that can be controlled separately.











## SONOS WITH LED BEACON

Features	Lens colour	dB@ 1m	Voltage	Cat. no.
• IP 65	amber	93-106	17-60 V DC	KL2496A
• M20 cable knock-outs in base	red	93-106	17-60 V DC	KL2496R
• 32 tones to choose from (including				

- Australian alert and evacuation tones)
- Current draw and dB output are tone dependent
- Volume adjustment (20 dB turn down)
- Frequency range 400-2580 Hz
- Sounder and beacon can be controlled separately.









4 Ø 4.2 Fixing holes



#### **Electronic Sounders**



## **NEXUS SOUNDER**

Features

Features	dB@ 1m	Voltage	Cat. no.
• IP 66 rated	105	10-60V DC	KL980542
<ul> <li>Volume adjustment (20dB turn down)</li> <li>64 tones to choose from (including Australian alert and evacuation tones) – <i>see page 18</i></li> <li>Three stage alarms (DC only) can be controlled</li> </ul>	105	110-230 V AC	KL980548
	110	10-60V DC	KL980554
	110	24-48V AC	KL980605
separately	110	110-230 V AC	KL980557
Provision for five cable entries	120	10-60V DC	KL980545
	120	110-230 V AC	KL980551





### **NEXUS VOICE SOUNDER**

Features	dB@ 1m	Voltage	Cat. no.
Nexus Voice – download your own message from	110	24V DC	KL980726
a PC using a USB cable (installation CD and guide	110	110-230 V AC	KL980784
comes with sounder)			

• Space for seven messages available in DC model, four available in AC



Note: Refer to page 18 for list of available nexus tones.





#### **Electronic Sounders**



## NEXUS SOUNDER WITH XENON BEACON

Fe	atures
•	IP 66 rated
•	down)

- Strobe can be controlled separately
- 64 tones to choose from (including Australian alert and evacuation tones) *see page 18*
- Three stage alarms (DC only) can be controlled seperately
- Provision for five cable entries
- 5 joule xenon strobe

Lens colour	dB@ 1m	Voltage	Cat. no.
red	105	10-60V DC	KL980543
amber	105	10-60V DC	KL980544
red	105	110/230V AC	KL980549
amber	105	110/230V AC	KL980550
red	110	10-60V DC	age         Cat. no.           V DC         KL980543           V DC         KL980544           0V AC         KL980549           0V AC         KL980550           V DC         KL980555           V DC         KL980556           V DC         KL980556           V DC         KL980558           0V AC         KL980552           V DC         KL980546           V DC         KL980547           0V AC         KL980552           0V AC         KL980552           0V AC         KL980552
amber	110	10-60V DC	KL980556
red	110	dB@ 1m         Voltage         Cat           105         10-60V DC         KL98           105         10-60V DC         KL98           105         10-60V DC         KL98           105         110/230V AC         KL98           105         110/230V AC         KL98           110         10-60V DC         KL98           110         110/230V AC         KL98           110         110/230V AC         KL98           120         10-60V DC         KL98           120         10-60V DC         KL98           120         110/230V AC         KL98           120         110/230V AC         KL98           120         110/230V AC         KL98           120         110/230V AC         KL98	KL980558
amber	110	Voltage         Cat. no           10-60V DC         KL98054           10-60V DC         KL98054           10-60V DC         KL98054           110/230V AC         KL98054           110/230V AC         KL98054           10-60V DC         KL98054           110/230V AC         KL98055           10-60V DC         KL98055           110/230V AC         KL98055           110/230V AC         KL98055           110/230V AC         KL98055           110-60V DC         KL98055           110-60V DC         KL98055           110-60V DC         KL98055           110/230V AC         KL98055           110/230V AC         KL98055           110/230V AC         KL98055           110/230V AC         KL98055	KL980559
red	120	10-60V DC	KL980546
amber	120	10-60V DC	KL980547
red	120	110/230V AC	KL980552
amber	120	110/230V AC	KL980553



Nexus 105 dB Sounder Beacon Dimensions



Nexus 110 dB Sounder Beacon Dimensions



Nexus 120 dB Sounder Beacon Dimensions



## **Motor Driven Sirens**



#### **MONO 72**

Features	dB@ 1m	Voltage	Cat. no.
• IP 65	120	110 V AC/ DC	KL2105
Clear sound output	120	230 V AC/ DC	KL2108
1800 Hz frequency			

• Continuous sound rating

• Suits mining and quarry applications







#### SO4

Features	dB@ 1m	Voltage	Cat. no.
• IP 55	125	230V AC/DC	KLS04240
Outdoor warning over small to medium areas			

- Vertical cast aluminium mounting
- Continuous sound rating
- 900 Hz frequency









#### SUPER M

Features	dB@ 1m	Voltage	Cat. no.
Vertical mounting	127	110V AC/DC	KLXSM110
Continuous sound rating	127	230 V AC/DC	KLXSM240
<ul> <li>1600 Hz frequency</li> </ul>			

• 1 metre pre-wired cable

• Suitable for areas with high background noise





## Mechanical Bell

#### **SOLENOID SERIES**

- IP 44 construction with steel gong and powder coated aluminium body
- High quality solenoid driven striker producing loud and clear ring
- Four point fixing on flat surfaces, supplied with gasket and 150 mm fly leads
- Suitable for use in education, commercial and transport applications

Description	Colour	dB@ 1m	Voltage	Cat. no.
Mechanical bell 6" (150 mm) - 100dB IP 44 24 V DC supply	grey	100	24 V DC	W6-024VDC
Mechanical bell 6" (150 mm) - 100dB IP 44 115 V AC supply	grey	100	115 V AC	W6-115VAC
Mechanical bell 6" (150 mm) - 100dB IP 44 230 V AC supply	grey	100	230 V AC	W6-230VAC





## Allen-Bradley



## Buzzers

MOFLA



#### **BULLETIN 855P**

Features	dB @ 1m	Voltage	Cat. no.
• IP 65	100	12-24 V AC/ DC	855PB30ME22
• For close proximity warning (3300 Hz)	100	240 V AC	855PB20ME22
<ul> <li>-25° to +60 operational temperature</li> <li>45 mm diameter</li> <li>22.5 mm diameter panel mount</li> </ul>		045 (1.77)	0225 (0.25) (0.25)



#### AE20M

Features	dB @ 1m	Voltage	Cat. no.
• IP 55	90	12 V DC	AE20M-12
Continuous or pulsed tone (2900 Hz)	90	24V DC	AE20M-24
AE2OM-12 (pulsed tone only)	90	110 V AC	AE20M-115
• 50/60 Hz	90	240 V AC	AE20M-230

- 43 mm diameter
- 27 mm diameter panel mount





## ККТВ

Features	dB @ 1m	Voltage	Cat. no.
• IP 34	80	6–14 V DC	KL1049646
Base mount (Single Point Fixing)	80	10-28 V DC	KL1049650
• Low frequency 450 Hz sound rating			

- Continuous sound rating
- 40 mm diameter









#### Wide Area Sirens

NHP have the complete product and service combination available for your wide area siren requirements.

We are able to tailor a solution to your needs with pre-project evaluation and ongoing support to achieve individual requirements.

The ES range of sirens, from respected warning systems supplier Klaxon is able to address mass alert signalling for all environments



#### **Main Features**

- Audibility range between 106dB @ 30m for the smallest unit to 127dB @ 30m for the largest unit.
- 16 user selectable and configurable emergency signals.
- Storage for up to and selectable 400 pre-recorded voice messages.
- Battery operated from an integral battery pack to overcome AC power failure.
- User definable schedules for time/date signalling.
- Silent test facility to minimise nuisance signalling to test the siren.
- Full control and fault diagnosis of a single or multiple units via an RS485 interface of up to 1.5km distance from the siren.
- Supports a radio and modem for remote operation via bi-directional integrated RS232 interface.
- Supports a GPS clock for accurate time synchronisation for schedules via an integrated RS232 interface.

- Class D 375W amplifier used in the output with self healing short circuit, thermal and over current protection.
- Active alarm signal or PA output via a set of N/O and N/C relay contacts for control of and supplementary devices. (i.e. Strobe beacon).
- Four configurable relays with changeover contacts used to monitor the activities of the unit.
- Siren activity and fault report log.
- Minimum alarm signal operating time of at least 6 minutes after a 7 day AC power loss.
- Control cabinet constructed from coated steel as standard or stainless steel on request, (800 x 600 x 250mm), which provides an environmental rating of IP65 and the siren horns are manufactured of cast aluminium.
- Power supplied by an integral 48 V DC battery pack and an 88-132/176-264 V AC @ 47-63Hz power source.
- Operating temperature range of -20 to +60°C.



## NEXUS TONE DESCRIPTIONS AND FREQUENCIES

TONE	TONE TYPE	TONE DESCRIPTION/ APPLICATION	DIP SWITCH (\$1/\$2) 1 2 3 4 5 6	3 <sup>re</sup> STAGE TONE
1.		970Hz (BS5839-1:2002)	0.000.000	18
2.	www	800Hz/970Hz @ 2Hz (BS5839-1:2002)	0.000.001	1
3.	1111	800Hz = 970Hz @ 1Hz (BS5839-1:2002)	0.0-0-0-1-0	1
4.		970Hz 1s OFF/1s ON (Apolio Fire Systems Alert Tone, BS5839-1:2002)	0-0-0-0-1-1	1
5.	ww	970Hz, 0.5s/630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839- 1:2002)	0-0-0-1-0-0	1
6.		554Hz, 0.1s/ 440Hz, 0.4s (France - AFNOR NF S 32 001 )	0-0-0-1-0-1	1
7.	111	500 - 1200Hz, 3.5s/ 0.5s OFF (Netherlands - NEN 2575:2000)	0-0-0-1-1-0	1
8.		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	0-0-0-1-1-1	1
9.	777	500 – 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (Australia AS1670 Evacuation tone)	0-0-1-0-0-0	1
10.	m	550Hz/440Hz @ 0.5Hz	0-0-1-0-0-1	19
11.		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	0-0-1-0-1-0	1
12.		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201 High tone)	0-0-1-0-1-1	1
13.	~~~~	1200Hz - 500Hz @ 1Hz (DIN 33 404)	0-0-11-0-0	1
14.		400Hz	0-0-11-0-1	18
15.	<u>nonr</u>	550Hz, 0.7s/1000Hz, 0.33s	0-0-11-1-0	1
16.	m	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	0-0-1-1-1	1
17.	6	Simulated Bell	010000	1
18.		2400HZ	010001	1 10
20		BROWN 1 BE ONLY BE OFF	010010	10
20.		680Hz 0.154 ON0 154 OEE	010100	10
22	0000	510Hz 0.25s/610Hz 0.25s	010100	1
23	00000	800/1000Hz 0.5s each (1Hz)	010110	1
24	10000	250Hz - 1200Hz @ 12Hz	010111	1
25.		500Hz - 1200Hz @ 0.33Hz	04000	1
26.	1111	2400Hz - 2900Hz @ 9Hz	014004	1
27.	1111	2400Hz - 2900Hz @ 3Hz	011010	1
28.	1111	800Hz - 970Hz @ 100Hz	044-044	1
29.	1111	800Hz - 970Hz @ 9Hz	0-1-1-1-0-0	1
30.	111	800Hz – 970Hz @ 3Hz	044404	1
31.		800Hz, 0.25s ON/1s OFF	044440	1
32.	111	500Hz - 1200Hz, 3.75s/0.25s OFF (AS2220)	0-1-1-1-1	1
33.		340Hz	1-0-0-0-0	1
34.		1000Hz	10-0-0-0-1	18
35.	$\sim$	1400Hz - 1600Hz, 1s/1600Hz - 1400Hz, 0.5s (NF 48-265)	10-0-0-1-0	1
35.		550HZ 5.55 ON/135 OFF	100011	19
37.	10000	1000H2/2000HZ, 15 each	100100	1
30.		720HZ, 0.75 ON/0.35 OFF	100101	1
40.		2800Hz 1+ ONIOEE	LOOHU	1
41.		2800Hz 0 25s ON/OEE	101000	1
42.	mm	2400/2900 @ 2Hz	101001	1
43.		Chime, 554Hz/440Hz Single shot 'ding dong'	101010	1
44.		Chime, 554Hz/440Hz Repeating 'ding dong'	1-0-1-0-1-1	1
45.		Chime, 970Hz/800Hz Single shot 'ding dong'	1-0-1-1-0-0	1
46.		Chime, 970Hz/800Hz Repeating 'ding dong'	1-0-1-1-0-1	1
47.		Hooter, Repeating	1-0-1-1-0	1
48.	ww	Gentle alarm - Tone 2, rises slowly to full volume over 30s	HHHOI	1
49.	<u> </u>	Time-Out Alarm – As Tone 2, cuts off after 10 mins	140000	1
50.	10000	Time-Out Alarm – As Tone 2, cuts off after 2 mins	11-0-0-0-1	1
51.		750Hz 0.538 ON/0.518 OFF	11-0-0-1-0	1
52.		500Hz 0.335 0NU.335 0FF	140-041	1
54	~~	600Hz, 0.556 1000Hz, 0.76	10101	1
55		660Hz - 660Hz/ 0.9s	40404	1
56.		670Hz = 725Hz/ 0.9s	HOLU	1
57.		920Hz - 750Hz/ 0.9s	14000	1
58.	111	700Hz - 900Hz, 0.3s/0.6s OFF	HHOOI	1
59.	NNN	900Hz - 760Hz, 0.6s/0.3s OFF	141010	1
60.		750Hz	111-041	18
61.		Power Only - Use with Stage 3 control for manual/intermittent chime triggering	14-14-0-0	43
62.		Power Only - Use with Stage 3 control for manual/intermittent chime triggering	11111-0-1	43
63.		Power Only - Use with Stage 3 control for manual/intermittent horn triggering	1111110	47
64.		Reserved for future use	14-14-14	





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