

Fire and Industrial Signalling BROCHURE

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Fire & Industrial Signalling



SpectrAlarm

Combination audible & visual signals

The SpectrAlarm range combines the AlertAlarm audible devices with the Spectra beacons to create a series of products optimised for industrial signalling applications.

The alarm horn sounders and beacons can be connected separately to allow the audible and visual signal to warn on individual events. Alternatively a common power source can be used to simplify installation and reduce cabling.

With sound levels up to 126dB(A) and combined with a 15 Joule Xenon strobe beacon the AB121STR Spectralarm combination device provides clear audible and visual warning where the highest levels of ambient noise and light exist.



AB105STR/
AB105LDA/
AB105RTH



AB112STR/
AB112LDA/
AB112RTH



AB121STR/
AB121LDA/
AB121RTH

Range info
Material High impact UL94 V0 & 5VA FR ABS UV stable PC UL94 V0 FR
Ingress Protection IP65
Fixings Stainless steel.
Mounting Surface mount - via extenal mounting lugs or internal BESA compatible fixing positions.
Enclsoure colours Red (RAL3000) or grey (RAL7038)
Lens colours Amber, Blue, Clear, Green, Magenta, Red & Yellow
Cable Entries 2 x 20mm clearance entries
Features Automatic synchronisation on multi-sounder system. Continuously rated. Duplicate cable terminations (in & out for daisy-chain installations). Tropicalisation available on request. Available with custom tone configurations and frequencies.

AB105 Combination signal
Max. 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels 144.0mm x 273.9mm x 133.5mm 5.67" x 10.78" x 5.25"
Ref: 2-31-160 AB105STR Alarm sounder & Xenon strobe 12Vdc, 24Vdc, 48Vdc 24Vac, 115Vac & 230Vac Xenon strobe 5 Joule. Effective intensity 250cd. 1Hz flash rate automatically synchronised. DC units: Optionally 1.5Hz & double strike
Ref: 2-31-170 AB105RTH Alarm Sounder & rotating beacon 12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 25W. Effective intensity 125cd.
Ref: 2-31-170 AB105LDA Alarm sounder & L.E.D beacon 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 16 high power L.E.D.s. Effective intensity 19cd.

AB112 Combination signal
Max. 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 169.0mm x 312.8mm x 156.5mm 6.65" x 12.31" x 6.16"
Ref: 2-31-210 AB112STR Alarm sounder & Xenon strobe 12Vdc, 24Vdc, 48Vdc 24Vac, 115Vac & 230Vac Xenon strobe 5 Joule. Effective intensity 250cd. 1Hz flash rate automatically synchronised. DC units: Optionally 1.5Hz & double strike
Ref: 2-31-200 AB112RTH Alarm Sounder & rotating beacon 12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 25W. Effective intensity 125cd
Ref: 2-31-220 AB112LDA Alarm sounder & L.E.D beacon 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 16 high power L.E.D.s. Effective intensity 19cd.

AB121 Combination signal
Max. 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 210.0mm x 388.5mm x 191.5mm 8.26" x 15.29" x 7.65"
Ref: 2-31-260 AB121STR Alarm sounder & Xenon strobe 24Vdc, 48Vdc 115Vac, 230Vac Xenon strobe 15 Joule. Effective intensity 250cd. 1Hz flash rate automatically synchronised. DC units: Optionally 1.5Hz & double strike
Ref: 2-31-250 AB121RTH Alarm sounder & rotating beacon 12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 40W. Effective intensity 324cd.
Ref: 2-31-270 AB121LDA Alarm sounder & L.E.D beacon 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 32 high power L.E.D.s.



AlertAlight

General purpose audible and visual signals



L101X/L101H/
L101FLASHTEL



AL100X/AL100H/
AL100SONTELFLASH



AL105NX/
AL105NSONTELFASH



DL105X/DL105H/
DL112X/DL112H



AL112NX/
AL112NH



AL121X/AL121H

The AlertAlight range contains high performance industrial alarm horn sounders combine with Xenon strobe beacons or high output L.E.D. beacons. A choice of enclosure materials and form factors are available to suit any environment and application.

The range is CPR compliant (EN54-3 & EN54-23) for use in fire systems within the EU and is also UL and cULs approved for general signalling duties. Globally approved, the AlertAlight range is the ideal solution for fire, security, process control and industrial signalling. For harsh conditions the DL105 and DL112 marine grade, aluminium enclosure alarm horn combinations provide a robust solution for on and offshore safe area applications.

Features

Automatic synchronisation on multi-sounder system.
Continuously rated.
Unit can be mounted using external lugs or internal BESA compatible fixing positions.
Duplicate cable terminations (in & out for daisy-chain installations).
Tropicalisation available on request.
Available with custom tone configurations and frequencies

Xenon Strobe Beacons

Ref: 2-13-010
L101X Xenon Beacon
12/24/48Vdc & 24/115/230Vac 50/60Hz.
Effective intensity 250cd
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses
Red RAL3000, Grey RAL7038, white enclosure
Max. 86.4mm x 86.4mm x 92.7mm
Max. 3.40" x 3.40" x 3.65"

Also available in telephone initiated
L101XFLASHTEL version Ref: 2-13-020.

L.E.D. Beacon

Ref: 2-14-010
L101H L.E.D. Beacon
10-30Vdc, 90-260Vdc 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd
Amber Blue, Green, Red and White L.E.D's
Red RAL3000, Grey RAL7038 or white housing.
Max. 86.4mm x 86.4mm x 92.7mm
Max. 3.40" x 3.40" x 3.65"

AL100 Combination signals

Max. 104dB(A) @ 1m - 95dB(A) @ 10ft/3m
32 alarm tones with 3 stages/channels
Red RAL3000, Grey RAL7038, white enclosure
Max. 86.6mm x 172.0mm x 84.6mm
Max. 3.41" x 6.77" x 3.33"

Ref: 2-31-090
AL100X Alarm sounder & Xenon strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd.
Ref: 2-31-100

AL100H Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 115Vac, 230Vac 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd

AL105N Combination Signals

Max. 112dB(A) @ 1m - 103dB(A) @ 10ft/3m
32 alarm tones with 3 stages/channels
Red RAL3000, Grey RAL7038, white enclosure
Max. 130.0mm x 216.2mm x 133.5mm
Max. 5.12" x 8.52" x 5.26"

Ref: 2-31-120
AL105NX Alarm sounder & Xenon strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd
Ref: 2-31-130

AL105NH Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc) & 115/230Vac 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd

Ref: 2-31-360
DL105X Alarm sounder & Xenon beacon
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd
Ref: 2-31-370

DL105H Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc) & 115/230Vac 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd

AL112N Combination signals

Max. 119dB(A) @ 1m - 110dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
Red RAL3000 or Grey RAL7038 enclosure
Max. 168.0mm x 255.0mm x 156.5mm
Max. 6.6" x 10.0" x 6.2"

Ref: 2-31-180
AL112NX Alarm Sounder & Xenon strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd

Ref: 2-31-190
AL112NH Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc) & 115Vac, 230Vac 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd.
Ref: 2-31-380

DL112X Alarm Sounder & Xenon strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd

Ref: 2-31-390
DL112H Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc) & 115Vac, 230Vac 50/60Hz.
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd

AL121 Combination signals

Max. 126dB(A) @ 1m - 117dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
Red RAL3000 or Grey RAL7038 enclosure
Max. 190.0mm x 275.9mm x 191.5mm
7.5" x 10.9" x 7.5"

Ref: 2-31-230
AL121X Alarm sounder & Xenon strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz.
Xenon strobe 5 Joule.
Effective intensity 250cd.
Ref: 2-31-240

AL121H Alarm sounder & L.E.D beacon
24Vdc (10-30Vdc) & 115Vac, 230Vac 50/60Hz
Array of 24 high superflux L.E.D.s.
Effective intensity 176cd.

Telephone initiated signals

A100SONTELFASH Ref: 2-31-110.
A105NXSONTELFASH Ref: 2-31-140.



AlertAlarm

General purpose audible signals



The AlertAlarm range contains high performance industrial alarm horn sounders with a choice of enclosure materials and form factors to suit any environment and application.

The range is CPR compliant (EN54-3) for use in fire systems within the EU and is also UL approved for general signalling duties. Globally approved, with EAC, VdS and MED certification on specific products within the range, AlertAlarm is the ideal solution for fire, security, process control and industrial signalling. For harsh conditions the D105 and D112 marine grade, aluminium enclosure alarm horn sounders provide a robust solution for on and offshore safe area applications.

Range info
Material A100/A105N/A112/A121: High impact UL94 V0 & 5VA FR ABS Enclosure D105/D112: Marine grade aluminium A1 Si12 Cu enclosure
Ingress Protection IP66 D105/D112: IP66, Type 4/4X/3R
Fixings Stainless steel.
Mounting Surface mount - via external mounting lugs or internal BESA compatible fixing positions. Cable entries 2 or 3 x M20 or 20mm clearance entries.
Features Automatic synchronisation on multi-sounder systems. Continuously rated. Duplicate cable terminations (in & out for daisy-chain installations). Tropicalisation available on request. Available with custom tone configurations and frequencies. 'Programmable' version available: - 45 alarm tones - 4 remotely selectable stages - Any tone can be assigned to any stage - User configurable continuous frequency tone

Alarm Sounders/Horns
Ref: 2-21-040 A100 Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24/115Vac & 230Vac 50/60Hz Max output 104dB(A) @ 1m - 95dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels RAL3000 Red, RAL7038 Grey or White housing. 86.0mm x 86.0mm x 85mm 3.39" x 3.39" x 3.35" Also available in telephone initiated A100SONTEL version Ref: 2-21-050. Powered direct from telephone line (REN 1). Max output 104B(A) @ 1m - 91dB(A) @ 10ft/3m
Ref: 2-21-060 A105N Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 100Vdc (72-120Vdc) & 24/115/230Vac 50/60Hz Max output 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels Red RAL3000, Grey RAL7038 or white housing. 130.0mm x 130.0mm x 133.5mm (5.12" x 5.12" x 5.26") Also available in telephone initiated A105NSONTEL version Ref: 2-21-070. Powered direct from telephone line (REN 1). Max output 105B(A) @ 1m - 96dB(A) @ 10ft/3m

Alarm Sounder/Horn
Ref: 2-21-080 A112N Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 110Vdc (90-250Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max output 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 168.0mm x 168.0mm x 156.5mm 6.62" x 6.62" x 6.16" Ref: 2-21-090 A121 Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max output 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grey RAL7038 housing. 190.0mm x 190.0mm x 191.5mm 7.48" x 7.48" x 7.54"

Metal Bodied Rugged Sounders
Ref: 2-21-100 D105 Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max output 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels RAL3000 Red or RAL7038 Grey housing. 130.0mm x 180.0mm x 112.0mm 5.12" x 7.09" x 4.93" Ref: 2-21-110 D112 Alarm Sounder 24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max output 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grey RAL7038 housing. 130.0mm x 180.0mm x 112.0mm 5.12" x 7.09" x 4.93"



Sonora

Compact audible and visual signals



SONF1/SONF1-HO SON2

Sonora range offers compact audio visual signalling for fire, industrial, process control and machine safety applications.

The range features low current consumption combined with high performance. The SONF1 is available with two levels of sound level output and is CPR compliant (tested to EN54-3) for fire alarm use.

The SONF1 and SONF1-HO can be combined with either a Xenon strobe beacon or L.E.D beacon to create the SONFL1X or SONFL1H. Key audible products from the Sonora range are UL and cULs listed for general signalling and outdoor use in addition to VdS and EAC approval.

The SONF1 is EN54-3 tested and the SONFL1X and SONFL1X-H are EN54-3 & EN54-23 tested for CPR compliance (CPR 305/2011/EU).



SONFL1X/SONFL1X-H/
SONFL1H/SONFL1H-H

Range info
Material High impact UL94 V0 & 5VA FR ABS Enclosure
Ingress Protection IP66, UL version Type 13 & 3R
Fixings Stainless steel.
Mounting Surface mount - via extenral mounting lugs (where applicable) or internal BESA compatible fixing positions.
Cable entries 2 or 3 or 4 x 20mm clearance gland entries.
Enclosure colours Red RAL3000, Grey RAL7038 or white.



SON4/SON4L/SON4B



BEDHEAD

Alarm Sounders/Horns

Ref: 2-21-010
SONF1 Alarm Sounder
24Vdc (10-30Vdc) & 24Vac, 115Vac & 230Vac 50/60Hz
Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m
10 alarm tones with 2 stages/channels
86.0mm x 86.0mm x 54.2mm
3.39" x 3.39" x 2.13"

Ref: 2-21-020
SONF1-HO High Output Alarm Sounder
12Vdc, 24Vdc
Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m
10 alarm tones with 2 stages/channels
86.0mm x 86.0mm x 85mm
3.39" x 3.39" x 3.35"

Ref: 2-21-030
SON2 Alarm Sounder
24Vdc (10-30Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz
Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m
32 alarm tones with 3 stages/channels
86.0mm x 86.0mm x 85mm
3.39" x 3.39" x 3.35"

BEDHEAD alarm sounder

Ref: 2-21-230
BEDHEAD Alarm Sounder
24Vdc
Max. 90dB(A) @ 1m - 81dB(A) @ 10ft/3m
10 alarm tones with 3 stages/channels
White enclosure
85.5mm x 85.5mm x 11.0mm cover depth
3.37" x 3.37" x 0.43" cover depth

Combination Signals

SONFL1 Type Combination Signals
Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m
10 alarm tones with 2 stages/channels
86.6mm x 172.0mm x 84.0mm
3.41" x 6.77" x 3.31"

Ref: 2-31-050
SONFL1X Xenon strobe
12Vdc, 24Vdc & 24Vac, 115Vac, 230Vac
5 Joule
Effective intensity 200cd
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Ref: 2-31-050
SONFL1H Xenon strobe
10-30Vdc, 115Vac, 230Vac
Array of 24 high superflux L.E.D.s.
Effective intensity 200cd.
Amber, Blue, Green, Red & White L.E.D's

SONFL1-HO Type Combination Signals
Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m
10 alarm tones with 2 stages/channels
86.6mm x 172.0mm x 84.0mm
3.41" x 6.77" x 3.31"

Ref: 2-31-070
SONFL1X-H High Output Horn & Xenon
12Vdc, 24Vdc
10 alarm tones with 2 stages/channels
Xenon strobe 5 Joule.
Effective intensity 200cd.
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Ref: 2-31-050
SONFL1H-H High Output Horn & L.E.D
12Vdc, 24Vdc
Array of 24 high superflux L.E.D.s.
Effective intensity 200cd.
Amber, Blue, Green, Red & White L.E.D's

Integrated Combination Signals

Ref: 2-31-040
SON4 Alarm Sounder & Xenon Beacon
24Vdc (18-30Vdc) & 24Vac, 115Vac, 230Vac
Max. 104dB(A) @ 1m - 95dB(A) @ 10ft/3m
32 alarm tones with 3 stages/channels
Xenon strobe 0.5 Joule.
Effective intensity 25cd.
Amber, Blue & Red lenses
86.0mm x 86.0mm x 102.0mm
3.39" x 3.39" 4.02"

Ref: 2-31-030
SON4L Alarm Sounder & L.E.D Beacon
12Vdc, 24Vdc, 48Vdc & 24Vac, 115Vac, 230Vac
Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m
10 alarm tones with 3 stages/channels
Array of 5 high intensity L.E.D.s.
Effective intensity 3cd.
Amber & Red lenses
86.0mm x 86.0mm x 76.9(dc),102.0mm(ac)
3.39" x 3.39" 3.03" (dc) 4.02" (ac)

Ref: 2-31-020
SON4B Alarm Sounder & Filament Lamp Beacon
24Vdc & 24Vac, 115Vac, 230Vac
Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m
10 alarm tones with 3 stages/channels
1.3W Filament bulb/lamp.
Effective intensity 6cd.
Amber, Blue & Red lenses
86.0mm x 86.0mm x 76.9(dc),102.0mm(ac)
3.39" x 3.39" 3.03" (dc) 4.02" (ac)



Sonora

Signal towers



STB2



STB3



STA2



STA3



STB4



STA4

The STA and STB stack signal towers are customisable audio-visual signals featuring a tower of 2, 3 or 4 AlertAlight L101X or L101H type beacons optionally combined with a SONF1 alarm sounder.

Each beacon position can contain either a Xenon or high output L.E.D. light source. The STA and STB assemblies feature a pre-wired junction box and cable loom simplifying installation and enabling the end user to determine beacon type and position during installation.

The STA and STB range are UL and cULs listed for general signalling and EAC certified.

Range info
Material High impact UL94 V0 & 5VA FR ABS Enclosure: Red RAL3000, Grey RAL7038 or white
Ingress Protection IP66, UL version Type 13 & 3R
Fixings Stainless steel.
Mounting Surface mount - via external mounting lugs (where applicable) or internal BESA compatible fixing positions.
Cable entries 2 or 3 or 4 x 20mm clearance gland entries.
Enclosure colours Red RAL3000, Grey RAL7038 or white.

Visual Signal Tower
Visual signal stack units with Xenon or L.E.D. Beacons. Pre-wired junction box and cable loom. 12Vdc, 24Vdc & 115Vac, 230Vac Xenon effective intensity 200cd. Xenon lenses: Amber, Blue, Clear, Green, Magenta, Red, Yellow L.E.D. effective intensity 120cd. L.E.D.: Amber Blue, Green, Red and White Ref: 2-11-010 STB2 Xenon &/or L.E.D x 2 86.4mm x 262.5mm x 83.7mm 3.4" x 10.34" x 3.3" Ref: 2-11-011 STB3 Xenon &/or L.E.D x 3 86.4mm x 351.5mm x 83.7mm 3.4" x 13.85" x 3.3" Ref: 2-11-012 STB4 Xenon &/or L.E.D x 4 86.4mm x 438.5mm x 83.7mm 3.4" x 17.28" x 3.3"

Audible & Visual Signal Tower
Visual and audible stack units with Xenon or L.E.D. Beacons. Pre-wired junction box and cable loom. 12Vdc, 24Vdc & 115Vac, 230Vac Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m 10 alarm tones with 3 stages/channels Xenon effective intensity 200cd. Xenon lenses: Amber, Blue, Clear, Green, Magenta, Red, Yellow L.E.D. effective intensity 120cd. L.E.D.: Amber Blue, Green, Red and white Ref: 2-31-010 STA2 Alarm Horn w. Xenon &/or L.E.D x 2 86.4mm x 350.5mm x 83.7mm 3.4" x 13.81" x 3.3" Ref: 2-31-011 STA3 Alarm Horn w. Xenon &/or L.E.D x 3 86.4mm x 439.5mm x 83.7mm 3.4" x 17.32" x 3.3" Ref: 2-31-012 STA4 Alarm Horn w. Xenon &/or L.E.D x 4 86.4mm x 527.8mm x 83.7mm 3.4" x 20.79" x 3.3"



M Visual & Audible Signals

Heavy industrial & marine



MB005/010/MBL1



MA112/ML15



MA121/ML25



MCA112-05/MCA112-L



MCB005-05



MB021

The 'M' series of products have been designed to withstand the harshest of environments. Constructed from lightweight, impact and fire resistant ABS, the range features stainless steel, ratchet adjustable mounting brackets and has been third party tested to IP66/67.

The alarm horn sounders have 45 alarm tone frequencies and 3 alarm stages/channels that can be remotely selected. Xenon strobe beacons and multi-function L.E.D. lights are available as standalone devices or combined with an alarm horn sounder. All models have large termination areas and dual M20 cable entries. The MB021 version features a 21J Xenon strobe beacon in a PPS enclosure suitable for extreme conditions.

The ML15 and ML25 PA loudspeakers (70V models) are UL & cUL approved for Fire Alarm & Emergency and Professional & Commercial use for the US and Canada.

Range info

Material
High impact UL94 V0 & 5VA FR ABS
Ingress Protection
IP66/67.
Fixings
Stainless steel.
Mounting
Ratchet adjustable stainless steel 'U' bracket.
Cable entries
2 x M20 supplied with 1 blanking plug.

MB021 Xenon Strobe

Material
Corrosion proof, light-weight PPS.
Ingress Protection
IP66/67.
Fixings
Stainless steel.
Mounting
Ratchet adjustable stainless steel 'U' bracket.
Cable entries
2 x M20 supplied with 1 blanking plug.

Xenon Strobe Beacons

Ref: 2-13-070
MB005 Xenon Strobe Beacon
12/24/48Vdc & 115/230Vac 50/60Hz.
5 Joule Xenon beacon.
Effective intensity 250cd
Amber, Blue, Clear, Green, Red & Yellow lenses
170.6mm x 233.0mm (6.72" x 9.17")
Ref: 2-13-080
MB010 Xenon Strobe Beacon
12/24/48Vdc & 115/230Vac 50/60Hz.
10 Joule Xenon beacon.
Effective intensity 500cd
Amber, Blue, Clear, Green, Red & Yellow lenses
170.6mm x 233.0mm (6.72" x 9.17")

L.E.D. Beacon

Ref: 2-14-060
MBL1 Multi-function L.E.D Beacon
24/115/230Vac 50/60Hz.
Array of 32 high output L.E.D.s.
Effective intensity 11cd
Amber, Blue, Green, Red & Yellow lenses
170.6mm x 233.0mm (6.72" x 9.17")

Dual Xenon Strobe Beacon

Ref: 2-13-090
MCB005-05 Dual Xenon Strobe Beacon
12/24/48Vdc & 115/230Vac 50/60Hz.
5 Joule Xenon beacons.
Effective intensity 250cd x 2
Amber, Blue, Clear, Green, Red & Yellow lenses
170.6mm x 344.9mm (6.72" x 13.58")

Alarm Sounders/Horns

Ref: 2-21-190
MA112 Alarm Horn Sounder
24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz
Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
181.0mm x 273.1mm (7.13" x 10.75")
Ref: 2-21-200
MA121 Alarm Horn Sounder
24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz
Max 126dB(A) @ 1m - 117dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
220.0mm x 323.5mm (8.66" x 12.74")

Combination Signals with Xenon or L.E.D Beacon

Ref: 2-31-400
MCA112-05 Alarm Horn & Xenon Strobe
24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz
Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m
5 Joule Xenon beacon.
Effective intensity 250cd
Amber, Blue, Clear, Green, Red & Yellow lenses
181.0mm x 385.1mm (7.13" x 15.17")
Ref: 2-31-410
MCA112-L1 Alarm Horn & L.E.D
24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz
Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m
Array of 32 high output L.E.D.s.
Effective intensity 11cd.
Amber, Blue, Clear (white L.E.D.s) Green, Red & Yellow lenses
181.0mm x 385.1mm (7.13" x 15.17")

PA Loudspeakers

Ref: 2-24-010
ML15 PA Horn Loudspeaker
70V or 100V or 8 or 16 Ohm low impedance
Rated SPL 118dB +/-3dB @ 15W @ 1m
181.0mm x 273.1mm (7.13" x 10.75")
Ref: 2-24-020
ML25 PA Horn Loudspeaker
70V or 100V or 8 or 16 Ohm low impedance
Rated SPL 121dB +/-3dB @ 25W @ 1m
220.0mm x 323.5mm (8.66" x 12.74")
Ref: 2-13-110
MB021 Xenon Strobe
MB021 Xenon Strobe Beacon 21 Joule
24/48Vdc & 115/230Vac 50/60Hz.
21 Joule Xenon beacon.
Effective intensity 1,050cd
Amber, Blue, Clear, Green, Red & Yellow lenses
170.6mm x 233.0mm (6.72" x 9.17")



Appello X user recordable

Combination alarm horn sounders



AL105NAXX/AL105NAXH

DL105AXX/DL105AXH

AL121AXX/AL121AXH

The Appello range is the next generation user recordable annunciators capable of storing up to 2 minutes of content.

The Appello X range records, stores and plays back recorded content with unsurpassed clarity and stores sounds directly to non-volatile memory. The recordable devices enables any type of content such as voice, music or custom tones and messages to be recorded via built in microphone or line-in audio input. Additionally, factory programming for supplied content is also available.

The combination versions of the Appello X range provide additional visual signalling to enforce the warning provided by the alarm horn. A variety of enclosure types and sizes are available to suit any application. The range is UL & cULs approved for general signalling and is also EAC certified.

Range info

Material

AL105 devices: UL94V0 & 5VA FR ABS
DL105 devices: Marine grade aluminium A1 Si12 Cu

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel.

Mounting

Surface mount - via extenal mounting lugs or internal BESA compatible fixing positions.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Direct content storage on non-volatile memory.
CD quality reproduction.
Message length: 4 x 30 seconds
Easy message creation with built in microphone or line-in audio input.
Volume controls for user content and alarm tones.
Available with custom tone configurations and frequencies.
Factory programming of user supplied content also available.
UL approved for general signalling use.

Combination Signal with Xenon Beacon

Ref: 2-32-010

AL105NAXX Appello X Recordable Sounder & Xenon Beacon

12Vdc, 24Vdc & 115Vac, 230Vac 50/60Hz.

Max output alarm tone: 110dB(A) @ 1m

- 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A)

@ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

5 Joule Xenon beacon.

Effective intensity 200cd

Amber, Blue, Clear, Green, Red & Yellow lenses

RAL3000 Red, RAL7038 Grey or White housing.

DC: 130.0mm x 130.0mm x 216.2mm AC:

130.0mm x 133.5mm x 275.4mm

DC: 5.12" x 5.12" x 8.52"

AC: 5.12" x 5.2" x 10.85"

Combination Signal with L.E.D. Beacon

Ref: 2-32-020

AL105NAXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc & 90-260Vac 50/60Hz

Max output alarm tone: 110dB(A) @ 1m

- 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A)

@ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

Array of 24 high output L.E.D.s.

Effective intensity 120cd

Amber, Blue, White, Green and Red L.E.D's

RAL3000 Red, RAL7038 Grey or White housing.

DC: 130.0mm x 130.0mm x 216.2mm

AC: 130.0mm x 133.5mm x 275.4mm

DC: 5.12" x 5.12" x 8.52"

AC: 5.12" x 5.2" x 10.85"

Combination Signal with Xenon Beacon

Ref: 2-32-030

DL105AXX Appello X Recordable Sounder & Xenon Beacon

10-30Vdc

Max output alarm tone: 110dB(A) @ 1m

- 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A)

@ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

5 Joule Xenon beacon.

Effective intensity 200cd

Amber, Blue, Clear, Green, Magenta, Red

& Yellow lenses

RAL3000 Red or RAL7038 Grey housing.

130.0mm x 267.4mm x 125.0mm

5.12" x 4.93" x 10.54"

Combination Signal with L.E.D. Beacon

Ref: 2-32-040

DL105AXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc

Max output alarm tone: 110dB(A) @ 1m

- 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A)

@ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

Array of 24 high output L.E.D.s.

Effective intensity 120cd

Amber, Blue, White, Green and Red L.E.D's

RAL3000 Red or RAL7038 Grey housing.

130.0mm x 267.4mm x 125.0mm

5.12" x 4.93" x 10.54"

Combination Signal with Xenon Beacon

Ref: 2-32-050

AL121AXX Appello X Recordable Sounder & Xenon Beacon

24Vdc & 115Vac, 230Vac 50/60Hz.

Max output alarm tone: 126dB(A) @ 1m

- 117dB(A) @ 10ft/3m

Max output user recorded content: 111dB(A)

@ 1m - 102dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

5 Joule Xenon beacon.

Effective intensity 200cd

Amber, Blue, Clear, Green, Red & Yellow lenses

RAL3000 Red or RAL7038 Grey housing.

190.0mm x 275.9mm x 191.5mm

7.5" x 10.9mm x 7.54"

Combination Signal with L.E.D. Beacon

Ref: 2-32-060

AL121AXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc & 90-260Vac 50/60Hz

Max output alarm tone: 126dB(A) @ 1m

- 117dB(A) @ 10ft/3m

Max output user recorded content: 111dB(A)

@ 1m - 102dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels

Array of 24 high output L.E.D.s.

Effective intensity 120cd

Amber, Blue, White, Green and Red lenses

RAL3000 Red or RAL7038 Grey housing.

190.0mm x 275.9mm x 191.5mm

7.5" x 10.9mm x 7.54"



Appello X user recordable

Alarm horn sounders



A105NAX



D105AX



A121



MV121

The Appello range is the next generation user recordable annunciators capable of storing up to 2 minutes of content.

The Appello X range records, stores and plays back recorded content with unsurpassed clarity and stores sounds directly to non-volatile memory. The recordable devices enables any type of content such as voice, music or custom tones and messages to be recorded via built in microphone or line-in audio input. Additionally, factory programming for customer supplied content is also available. The range is UL & cULs approved for general signalling and is also EAC certified.

Range info

Material

A105, A121 & MV121 devices: UL94V0 & 5VA FR ABS
D105AX: Marine grade aluminium A1 Si12 Cu

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel.

Mounting

A105NAX/A121AX: Surface mount - via external mounting lugs or internal BESA compatible fixing positions.
MV121: Ratchet adjustable stainless steel 'U' bracket.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Direct content storage on non-volatile memory. CD quality reproduction.
Message length: 4 x 30 seconds
Easy message creation with built in microphone or line-in audio input.
Volume controls for user content and alarm tones.
Available with custom tone configurations and frequencies.
Factory programming of user supplied content also available.
UL approved for general signalling use.

Alarm Horn Sounder

Ref: 2-22-010

A105NAX Appello X Recordable Horn

24Vdc (10-30Vdc) & 90-260Vac 50/60Hz
RAL3000 Red, RAL7038 Grey or White housing.
Max output alarm tone: 110dB(A) @ 1m
- 101dB(A) @ 10ft/3m
Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
DC: 130.0mm x 130.0mm x 133.5mm
AC: 130.0mm x 132.0mm x 188.0mm
DC: 5.12" x 5.12" x 5.26"
AC: 5.12" x 5.2" x 7.4"

Ref: 2-22-030

D105AX Appello X Recordable Horn

24Vdc (10-30Vdc)
RAL3000 Red or RAL7038 Grey housing.
Max output alarm tone: 110dB(A) @ 1m
- 101dB(A) @ 10ft/3m
Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
130.0mm x 180.0mm x 115.0mm
5.12" x 7.09" x 4.93"

Alarm Horn Sounder

Ref: 2-22-020

A121AX Appello X Recordable Horn

24Vdc (14-30Vdc) & 90-260Vac 50/60Hz
RAL3000 Red or RAL7038 Grey housing.
Max output alarm tone: 126dB(A) @ 1m
- 117dB(A) @ 10ft/3m
Max output user recorded content: 111dB(A) @ 1m - 102dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
190.0mm x 190.0mm x 191.5mm
7.48" x 7.48" x 7.54"

Ref: 2-22-040

MV121 Appello X Recordable Horn

24Vdc (10-30Vdc) & 90-260Vac 50/60Hz
RAL7038 Grey housing.
Max output alarm tone: 126dB(A) @ 1m
- 117dB(A) @ 10ft/3m
Max output user recorded content: 111dB(A) @ 1m - 102dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
220.0mm x 323.5mm (8.66" x 12.74")



Hootronic

Electro-mechanical alternative with visual signal



The Hootronic range utilises the latest in amplifier and digital to analogue conversion technology to create alternatives to traditional mechanical industrial signals such as sirens, buzzers, claxons & bells, with improved reliability at significantly lower current consumption and without a reduction in performance.

The products are zero maintenance (continuously rated) and accurately reproduce the following sounds: 470Hz industrial hooter, 1.7KHz high frequency sounder, 1.0KHz medium frequency siren, 450Hz buzzer and a mechanical bell. Each of these sounds have two additional, remotely selectable, alarm stages. The remote switch-off function generates genuine ‘tail off’ to sound when the alarm is terminated.

The combination versions of the Hootronic range provide additional visual signalling to enforce the warning provided by the alarm horn. A variety of enclosure types and sizes are available to suit any application.

Range info
Material Enclosure High impact UL94 V0 & 5VA FR ABS
Ingress Protection IP66 HMA121: IP66/67.
Fixings Stainless steel.
Mounting HA105*/HA121*: Surface mount - via external mounting lugs or internal BESA compatible fixing positions. HMCA121: Ratchet adjustable 'U' bracket.
Cable entries 2 x M20 cable entries.
Features Automatic synchronisation on multi-sounder system. Continuously rated. Duplicate cable terminations (in & out for daisy-chain installations). Tropicalisation available on request.

Combination Signal with Rotating Beacon
Ref: 2-33-030 HAB105RTH Hootronic & Rotating Beacon 24Vdc (10-30Vdc) & 115/230Vac 50/60Hz Max output 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 5 electro-mechanical replacement sounds with 3 stages/channels Halogen Bulb G6,35/GY6,35. Effective intensity 125cd Amber, Blue, Clear, Green, Red & Yellow lenses RAL3000 Red or RAL7038 Grey housing. 130.0mm x 130.0mm x 273.9mm 5.12" x 5.12" x 10.78"
Ref: 2-33-040 HAB1215RTH Hootronic & Rotating Beacon 12/24Vdc & 115/230Vac 50/60Hz. Max output 121dB(A) @ 1m - 112dB(A) @ 10ft/3m 5 electro-mechanical replacement sounds with 3 stages/channels Halogen Bulb G6,35/GY6,35. Effective intensity 325cd Amber, Blue, Clear, Green, Red & Yellow lenses RAL3000 Red or RAL7038 Grey housing. 190.0mm x 388.5mm x 191.5 7.48" x 15.29" x 7.54"

Combination Signal with Xenon Strobe
Ref: 2-33-010 HAL121X Hootronic & Xenon Strobe 12/24/115Vac, 230Vac 50/60Hz. Max output 121dB(A) @ 1m - 112dB(A) @ 10ft/3m 5 electro-mechanical replacement sounds with 3 stages/channels 5 Joule Xenon beacon. Effective intensity 250cd RAL3000 Red or RAL7038 Grey housing. 190.0mm x 275.9mm x 191.5mm 7.48" x 10.9" x 7.5"
Combination Signal with L.E.D. Beacon
Ref: 2-33-020 HAL121H Hootronic & L.E.D Beacon 12/24Vdc & 115/230Vac 50/60Hz. Max output 121dB(A) @ 1m - 112dB(A) @ 10ft/3m 5 electro-mechanical replacement sounds with 3 stages/channels Array of 24 high intensity L.E.D.s. Effective intensity 176cd Amber Blue, Green, Red and White lenses RAL3000 Red or RAL7038 Grey housing. 190.0mm x 275.9mm x 190.05mm 7.48" x 10.9" x 7.48"

Electronic Siren, Buzzer, Claxon & Bell with Xenon Strobe
Ref: 2-33-050 HMCA112-05 & Xenon Strobe 12/24Vdc & 115/230Vac 50/60Hz. Max output 124dB(A) @ 1m - 115dB(A) @ 10ft/3m 5 electro-mechanical replacement sounds with 3 stages/channels 5 Joule Xenon beacon. Effective intensity 250cd Amber, Blue, Clear, Green, Red & Yellow lenses Grey RAL7038 housing. 181.0mm x 385.1mm (7.13" x 15.17")



Hootronic & GPH

Electro-mechanical alternative



HA105N



HA121



HMA121



GPH1/2/3/4

The Hootronic range utilises the latest in amplifier and digital to analogue conversion technology to create alternatives to traditional mechanical industrial signals such as sirens, buzzers, claxons and bells, with improved reliability at significantly lower current consumption and without a reduction in performance.

The products are zero maintenance (continuously rated) and accurately reproduce the following sounds: 470Hz industrial hooter, 1.7KHz high frequency sounder, 1.0KHz medium frequency siren, 450Hz buzzer and a mechanical bell. Each of these sounds have two additional, remotely selectable, alarm stages. The remote switch-off function generates genuine ‘tail off’ to sound when the alarm is terminated.

The GPH range is a UL approved general purpose signal in a lightweight, robust PC enclosure.

The three alarm tones include a simulated electro-mechanical buzzer sound, traditionally only available from heavy, unreliable mechanical devices, plus two further warning tones. Suitable for 4” back box mounting the range includes surface mount and flush mount versions.

Range info

Material

HA105N, HA121 & HMA121:
High impact UL94 V0 & 5VA FR ABS
GPH Buzzers: High impact UL94 V0 (f1) PC

Ingress Protection

HA105N, HA121, HMA121: IP66.
HMA121: IP66/67.
GPH: IP66 Type 4/4X/13

Fixings

Stainless steel.

Mounting

HA105N/HA121: Surface mount - via external mounting lugs or internal BESA compatible fixing positions.
HMA121: Ratchet adjustable 'U' bracket.
GPH buzzers: surface mount.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Automatic synchronisation on multi-sounder system.
Continuously rated.
Duplicate cable terminations (in & out for daisy-chain installations).
Tropicalisation available on request.

Alarm Sounder/Horn

Ref: 2-23-010

HA105N Hootronic

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz
Max output 112dB(A) @ 1m
- 103dB(A) @ 10ft/3m
5 electro-mechanical replacement sounds with 3 stages/channels
130.0mm x 130.0mm x 133.5mm
5.12" x 5.12" x 5.26"

Ref: 2-23-020

HA121 Hootronic

10-30Vdc & 24/230Vac 50/60Hz
Max output 121dB(A) @ 1m
- 112dB(A) @ 10ft/3m
5 electro-mechanical replacement sounds with 3 stages/channels
210.0mm x 190.0mm x 191.5mm
8.27" x 7.48" x 7.54"

Ref: 2-23-030

HMA121 Hootronic

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz
Max output 124dB(A) @ 1m
- 115dB(A) @ 10ft/3m
5 electro-mechanical replacement sounds with 3 stages/channels
220.0mm x 323.5mm (8.66" x 12.74")

GPH Buzzers

Ref: 2-21-120

GPH1 & GPH2 Alarm Horn - Buzzer

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz
Max output 105dB(A) @ 1m
- 96dB(A) @ 10ft/3m
3 buzzer/sounder tones
152.0mm 152.0mm x 29.8mm
with optional backbox 65.5mm
5.98" x 5.98" x 1.17"
with optional backbox 2.58"

Ref: 2-21-130

GPH3 & GPH4 Alarm Horn - Buzzer

10-30Vdc & 40-260Vac 50/60Hz
Max output 110dB(A) @ 1m
-101dB(A) @ 10ft/3m
3 buzzer/sounder tones
152.0mm 152.0mm x 29.8mm
with optional backbox 65.5mm
5.98" x 5.98" x 1.17"
with optional backbox 2.58"



Spectra

Audible and combination signalling horns & buzzers



The Spectra horns, buzzers and combination devices are ideal for industrial environments requiring signalling for process control and machine safety.

The H100 and H110 devices feature a very high output electronic signal capable of generating a traditional 'buzzer' warning tone traditionally associated with electro-mechanical signals as well as a further two alarm tone frequencies. Also available combined with visual signals.

Range info	
Material	High impact ABS (UL94V0 & 5VA)
Ingress Protection	IP65
Fixings	Stainless steel.
Mounting	Surface mount.
Enclosure colour	Grey RAL7038 housing.
Cable Entries	1 x 5-7mm push through grommet

Ref: 2-21-170	H100B Signalling Horn 12-30Vdc/Vac, 40-260Vdc/Vac 50/60Hz Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Grey RAL7038. 94.2mm x 71.5mm (3.71" x 2.82")
Ref: 2-21-160	H100T Signalling Horn with Trumpet 12-30Vdc/Vac, 40-260Vdc/Vac 50/60Hz Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones 94.2mm x 177.5mm (3.71" x 6.99")
Ref: 2-21-180	H110T Signalling Horn with Trumpet 12-30Vdc/Vac, 40-260Vdc/Vac 50/60Hz Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels 135.0mm x 336.7mm (5.32" x 13.27")

Alarm horn sounders	
Ref: 2-31-320	H100TF Trumpet Horn & Filament Lamp Flashing Beacon 12Vdc, 24Vdc & 115Vac, 230Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Filament lamp BA9s, 5W. Flash frequency 1Hz. Effective intensity 2cd. Amber, Blue, Clear, Green, Red & Yellow lenses 94.2mm x 241.2mm (3.41" x 9.5")
Ref: 2-31-330	H110TR Trumpet Horn & Rotating Beacon 12Vdc, 24Vdc & 115Vac, 230Vac Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Halogen Lamp G6,35/GY6,35, 20/25W. Effective intensity 125cd. Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 135.0mm x 462.9mm (5.32" x 18.24")

Combination signal & filament lamp	
Ref: 2-31-280	H100BX Signal Horn & Xenon Strobe 24Vdc & 24Vac, 115Vac, 230Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Xenon strobe 1 Joule. Effective intensity 50cd. Amber, Blue, Clear, Green, Red & Yellow lenses 94.2mm x 135.2mm (3.41" x 5.33")
Ref: 2-31-300	H100TX Trumpet Horn & Xenon Strobe 24Vdc & 24Vac, 115Vac, 230Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Xenon strobe 1 Joule Effective intensity 50cd. Amber, Blue, Clear, Green, Red & Yellow lenses 94.2mm x 241.2mm (3.41" x 9.5")
Ref: 2-31-340	H110TX Trumpet Horn & Xenon Strobe 12Vdc, 24Vdc, 48Vdc & 12Vac, 24Vac, 48Vdc, 115Vac, 230Vac Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Xenon strobe 5 Joule. Effective intensity 250cd. Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 135.0mm x 462.9mm (5.32" x 18.24")

Combination signals & L.E.D. beacon	
Ref: 2-31-290	H100BL Signal Horn & L.E.D Beacon 12-30Vdc, 90-260Vdc/Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Array of 9 high powered L.E.D.s. Effective intensity 5.5cd. Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses 94.2mm x 135.2mm (3.41" x 5.33")
Ref: 2-31-310	H100TL Trumpet Horn & L.E.D Beacon 12-30Vdc, 90-260Vdc/Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Array of 9 high powered L.E.D.s. Effective intensity 5.5cd. Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses 94.2mm x 241.2mm (3.41" x 9.5")
Ref: 2-31-350	H110TL Trumpet Horn & L.E.D Beacon 10-30Vdc, 48Vdc, 90-260Vac Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Array of 16 high powered L.E.D.s. Effective intensity 19cd. Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses 135.0mm x 462.9mm (5.32" x 18.24")



Spectra

Visual signals



B300STR/B300LDA/B300SLF/
B300FLF/B300SLH/B300FLH



B400STR/B400LDA/B400SLF/
B400FLF/B400SLH/B400FLH



B300RTH



B400RTH

The Spectra visual signalling range includes Xenon, L.E.D., Halogen, incandescent and filament lamp light sources.

The B400 and the compact B300 series, provide reliable and robust visual signalling solutions. The UV stable, impact resistant polycarbonate enclosures, seal.e.d to IP65, are ideal for a host of applications such as process control and machine safety warning, status indication, and general alert.

Range info
Material High impact UL94 V0 (f1) PC
Ingress Protection IP65
Fixings Stainless steel.
Mounting The surface mount base can also be supplied with a right angle bracket or with a pole mounted assembly.
Cable entries 1 x 5-7mm push through grommet B300: 1 x M20 cable entry B400: 2 x M20 cable entry
Enclosure colour Black
Features Range of functions and technologies. Suitable for indoor and outdoor use. Beacons can be linked together to create a sequence of signals.

B300 beacons
Amber, Blue, Clear, Green, Red & Yellow lenses Diameter 100.0mm x 150.0mm high Diameter 3.94" x 5.91" high
Ref: 2-12-010 B300RTH Rotating Beacon [Halogen Bulb] 12Vdc, 24Vdc, & 115Vac, 230Vac 50/60Hz. Halogen Lamp G6,35/GY6,35. 20/25W Effective intensity 125cd. Diameter 100.0mm x 150.0mm high Diameter 3.94" x 5.91" high
Ref: 2-13-030 B300STR Xenon Strobe Beacon 12Vdc, 24Vdc, 48Vdc & 12 Vac, 24Vac, 48Vac, 115Vac, 230Vac 50/60Hz. 5 Joule Xenons Beacon. Effective intensity 250cd Flash rate 1Hz (60fpm). DC units optionally 1.5Hz & double strike.
Ref: 2-14-020 B300LDA L.E.D Beacon [Multi-Function Array] 10-50Vdc & 90-230Vac 50/60Hz Array of 16 high output L.E.D.s. Effective intensity 19cd. Functions: 4 rotating configurations. 4 flashing configurations. Steady mode for status applications.
Ref: 2-15-010 B300SLF Status Beacon [Filament Lamp] 12/24/48Vdc & 115/230Vac 50/60Hz Filament lamp E14, 25W Permanent beacon. Effective intensity 15cd.
Ref: 2-15-030 B300FLF Blinking Beacon [Filament Lamp] 12/24/48Vdc & 115/230Vac 50/60Hz Filament lamp E14, 25W Flash frequency user selectable during installation: 0.5Hz, 1Hz & 2Hz. Effective intensity 15cd.
Ref: 2-15-020 B300SLH Status Beacon [Halogen Lamp] 12/24/48Vdc & 115/230Vac 50/60Hz Halogen Lamp G6,35/GY6,35. 20/25W Permanent beacon. Effective intensity 21cd.

B400 beacons
Amber, Blue, Clear, Green, Red & Yellow lenses Diameter 140.0mm x 220.0mm high Diameter 5.52" x 8.67" high
Ref: 2-12-020 B400RTH Rotating Beacon [Halogen Bulb] 12Vdc, 24Vdc, & 115Vac, 230Vac 50/60Hz. Halogen Lamp G6,35/GY6,35. 35/40W.. Effective intensity 325cd. Diameter 140.0mm x 220.0mm high. Diameter 5.52" x 8.67" high.
Ref: 2-13-040 B400STR Xenon Strobe Beacon 24Vdc, 48Vdc & 24Vac, 48Vac, 115Vac, 230Vac 50/60Hz. 15 Joule Xenons Beacon. Effective intensity 750cd. 1Hz flash rate automatically synchronised.
Ref: 2-14-030 B400LDA L.E.D Beacon [Multi-Function Array] 10-50Vdc & 115Vac, 230Vac 50/60Hz Array of 32 high output L.E.D.s. Effective intensity 30cd. Functions: 4 rotating configurations. 4 flashing configurations. Steady mode for status applications.
Ref: 2-15-050 B400SLF Status Beacon [Filament Lamp] 12Vdc, 24Vdc & 115Vac, 230Vac 50/60Hz Filament lamp E14, 40W Permanent beacon. Effective intensity 27cd.
Ref: 2-15-080 B400FLH Blinking Beacon [Halogen Lamp] 12Vdc, 24Vdc & 115Vac, 230Vac 50/60Hz Halogen lamp G6,35/GY6,35. 35/40W. Flash frequency user selectable during installation: 0.5Hz, 1Hz & 2Hz. Effective intensity 34cd.
Accessories A range of right angle mounting brackets and pole mounting assemblies are available for the Spectra beacon range and also spare lamps and bulbs.



Spectra

Panel mount visual range



B100STR/B100LDA/B100SLF/B100FL



B200STR/B200LDA/B200SLF/B200FLF



E2S22D



E2S28D

The Spectra range panel & surface mount beacons and buzzers come in a range of sizes and technologies. The B100 and B200 series is comprised of a Xenon strobe beacon, steady filament lamp, blinking filament lamp and a steady L.E.D array version.

The B200 offers a compact signal ideal for operator indication whilst the B100 panel mount base incorporates a pluggable terminal block ensuring rapid installation and maintenance. The E2S22D and E2S28D with industry standard 22 and 28mm panel cut outs provide solutions for general signalling for control panels and instrument clusters.

Range info
Material High impact UL94 V0 (f1) PC
Ingress Protection IP65
Fixings Stainless steel.
Mounting Panel mount
Terminals B200: 0.5 to 1.5mm². B100: 0.5 to 1.5mm² pluggable.
Features Bayonet fixing lens. Anti-tamper locking screw.
Accessories A range of right angle mounting brackets and pole mounting assemblies are available for the Spectra beacons as well as lamps and bulbs.

B200 beacons
Amber, Blue, Clear, Green, Red & Yellow lenses Diameter 60.0mm x 80.0mm beacon height. Diameter 2.36"" x 3.15" beacon height.
Ref: 2-13-060 B200STR Xenon Strobe Beacon 10-30Vdc & 115Vac, 230Vac 50/60Hz 1 Joule Xenons Beacon. Effective intensity 50cd Flash frequency 0.75 Hz.
Ref: 2-14-050 B200LDA L.E.D Permanent Beacon 10-30Vdc & 90-230Vac Array of 9 high powered L.E.D.s. Effective intensity 5.5cd Permanent beacon.
Ref: 2-15-120 B200FLF Blinking Beacon 12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Flash frequency 1Hz. Effective intensity 2cd.
Ref: 2-15-110 B200SLF Status Beacon [Filament Lamp] 12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Permanent beacon. Effective intensity 5cd.

B100 Panel mount beacons
Amber, Blue, Clear, Green, Red & Yellow lenses Diameter 60.0mm x 65.5mm beacon height. Diameter 2.36"" x 2.58" beacon height.
Ref: 2-13-050 B100STR Panel Mount Xenon Strobe 10-30Vdc & 115Vac, 230Vac 50/60Hz 1 Joule Xenons Beacon. Effective intensity 50cd Flash frequency 0.75 Hz.
Ref: 2-14-040 B100LDA Panel Mount L.E.D Beacon 10-30Vdc & 90-230Vac Array of 9 high powered L.E.D.s. Effective intensity 5.5cd Permanent beacon.
Ref: 2-15-100 B100FLF Panel Mount Blinking Beacon 12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Flash frequency 1Hz. Effective intensity 2cd.
Ref: 2-15-090 B100SLF Panel Mount Status Beacon [Filament Lamp] 12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Permanent beacon. Effective intensity 5cd.

E2S22D Panel buzzers & lights
Ingress Protection IP65.
Mounting Panel mount - 22mm
Terminals Screw terminals with wire guards with ability to daisy chain the lights into an array.
Voltage 24 or 48Vac/dc, 110-130vac/dc or 230Vac
Ref: 2-21-210 E2S22DBZ Buzzer: 80dB @ 10cm E2S22DFS Flashing Light: Flash rate: 2Hz E2S22DBF Combination: 80dB @ 10cm with steady red L.E.D.
E2S28D Panel buzzers
Mounting Panel mount - 28mm
Terminals 6.35mm/0.25" quick-connect blades for push-on or direct solder attachment.
Max. Output 95±5 dB(A) at 48 Vdc at 24 inches (61 cm)
Ref: 2-21-220 E2S28DMC948: Continuous tone 9-48 Vdc E2S28DMC201: Continuous tone 30-120 Vac E2S28DMC301: Cont. tone 130-220 Vac E2S28DMB530: Dual function beep/continuous tone 5-30Vdc



Spectra

Traffic light/access control visual signals and alarm horn sounders



B350TLA/B350TSB



B450TLA/B450TSB/B450TDB



B300SND



B400SND

The Spectra range includes traffic light / access control indicators utilising either filament lamp or L.E.D light sources. The B450 and the compact B350 lights can be complemented by the B400SND or B300SND alarm horn sounder to provide an additional audible signal.

The UV stable, impact resistant polycarbonate enclosures, seal.e.d to IP65, are ideal for a host of applications such as traffic management, loading bays, fork lift access as well as process control and machine safety warning, status indication, and general alert.

Range info
Material High impact UL94 V0 (f1) PC
Ingress Protection IP65
Fixings Stainless steel.
Mounting Surface mount (Wall mount bracket available)
Cable Entries 1 x 5-7mm push through grommet 1 x M20 cable entry
Enclosure colour Black
Features Bayonet fixing lens. Anti-tamper locking screw.

B350 traffic light indicators
Diameter 100.0mm x 139.7mm height. Diameter 3.94"" x 5.5" height.
Ref: 2-11-050 B350TLA L.E.D Traffic Light 10-30Vdc & 90-230Vac 50/60Hz Array of 15 high output L.E.D.s. Effective intensity 54cd. Permanent (steady) beacon. Amber, Blue, Green & Red L.E.D's.
Ref: 2-11-060 B350TSB Filament Lamp Traffic Light 12-250V Filament Lamp E14, 25W. Effective intensity 21cd. Permanent (steady) beacon. Amber, Blue, Green, Red & Yellow lenses.

B450 traffic light indicators
Diameter 140.0mm x 177.0mm height. Diameter 5.52"" x 6.97" height.
Ref: 2-11-020 B450TLA L.E.D Traffic Light 10-30Vdc & 90-230Vac 50/60Hz Array of 24 high output L.E.D.s. Effective intensity 54cd. Permanent (steady) beacon. Amber, Blue, Green & Red L.E.D's.
Ref: 2-11-030 B450TSB Filament Lamp Traffic Light 12-250V Filament Lamp E27, 25W. Effective intensity 32cd. Permanent (steady) beacon. Amber, Blue, Green, Red & Yellow lenses.
Ref: 2-11-040 B450TDB Dual Filament Lamp Traffic Light 12-250V Filament Lamp E14, 15W x 2. Effective intensity 24cd. Permanent (steady) beacon. Amber, Blue, Green, Red & Yellow lenses.

B300SND Signalling Horn
Ref: 2-21-140 B300SND Signalling Horn 12-30Vac/dc, 40-260Vac/dc Max. 98dB(A) @ 1m - 89dB(A) @ 10ft/3m 3 alarm tones. Diameter 100.0mm x 98.0mm height. Diameter 3.94" x 4.04" height.
B400SND Signalling Horn
Ref: 2-21-150 B400SND Signalling Horn 10-30Vac/dc, 40-260Vac/dc Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 alarm tones Remotely selectable second stage. Diameter 140.0mm x 119.5mm height. Diameter 5.52" x 4.71" height.



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