Fire: Explosion proof Hazardous location and Industrial signals















(B2S warning signals

Beacons/Lights

Xenon Strobe	•	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13	•	•		4
Xenon Strobe	•	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13	•	•		4
LED Beacon	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13	•	•		10
LED Beacon	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13		•		12
Xenon Strobe	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13	•	•		10
Xenon Strobe	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13	•	•		10
Xenon Strobe	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13		•		12
Xenon Strobe	•	•		•	•	CI/II D2	CI Zone 2/22	4/4X/3R/13		•		12
LED Beacon			•		•	CI D1	CI Zone 0	IP65				14
	Xenon Strobe LED Beacon LED Beacon Xenon Strobe Xenon Strobe Xenon Strobe Xenon Strobe	Xenon Strobe • LED Beacon • LED Beacon • Xenon Strobe • Xenon Strobe • Xenon Strobe • Xenon Strobe •	Xenon Strobe•LED Beacon•LED Beacon•Xenon Strobe•Xenon Strobe•	Xenon Strobe••LED Beacon••LED Beacon••Xenon Strobe••Xenon Strobe••Xenon Strobe••Xenon Strobe••Xenon Strobe••Xenon Strobe••Xenon Strobe••Xenon Strobe••	Xenon Strobe • • • LED Beacon • • • LED Beacon • • • Xenon Strobe • • •	Xenon Strobe•••LED Beacon••••LED Beacon••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Xenon Strobe••••Yenon Strobe </td <td>Xenon Strobe••••CI/II D1LED Beacon••••CI/II D2LED Beacon••••CI/II D2Xenon Strobe•••••Xenon Strobe•••••CI/II D2Xenon Strobe•••••CI/II D2Xenon Strobe•••••CI/II D2Xenon Strobe•••••CI/II D2Xenon Strobe•••••CI/II D2Xenon Strobe••••••••••••••</td> <td>Xenon Strobe•••••Image: Classical structureLED Beacon•••••Cl/II D2Cl Zone 2/22LED Beacon•••••Cl/II D2Cl Zone 2/22Xenon Strobe••••Cl/II D2Cl Zone 2/22Xenon Strobe•••••Cl/II D2Cl Zone 2/22Xenon Strobe•••••Cl/II D2Cl Zone 2/22Xenon Strobe•••••Cl/II D2Cl Zone 2/22</td> <td>Xenon Strobe • • • CI/II D1 CI Zone 1/20 4/4X/3R/13 LED Beacon • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 LED Beacon • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 LED Beacon • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • CI/III D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 Xenon Strobe • • • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13</td> <td>Xenon Strobe • • • CI/II D1 CI Zone 1/20 4/4X/3R/13 • LED Beacon • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 • LED Beacon • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 • LED Beacon • • • • CI/II D2 CI Zone 2/22 4/4X/3R/13 • Xenon Strobe • • • • CI/II D2 CI Zone 2/22 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Alarm Horns

D1xS1R/F	Alarm Horn	•		•	•	CI/II D1	CI Zone 1/20	4/4X/3R/13		•	
D1xS2F	Alarm Horn	•		•	•	CI/II D1	CI Zone 1/20	4/4X/3R/13		•	
D1xS1	Alarm Horn	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13		•	
IS-mA1	Alarm Horn		•		•	CI D1	CI Zone 0	IP65		•	12

Speakers

D1xL1	Speaker			•	CI/II D1	CI Zone 1/20	4/4X/3R/13		•	8
D2xL2	Speaker			•	CI/II D1	CI Zone 1/20	4/4X/3R/13		•	
ML15	Speaker	•	•	•			4/4X/3R/13		•	
ML25	Speaker	•	•	•			4/4X/3R/13		•	17

Combination Alarm Horns & Beacons/Lights

D1xC1X05R/F	Horn & Xenon	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13		•	•	6
D1xC2X05R/F	Horn & Xenon	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13		•	•	
D1xC1X10R/F	Horn & Xenon	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13		•	•	
D1xC2X10R/F	Horn & Xenon	•		•		CI/II D1	CI Zone 1/20	4/4X/3R/13		•	•	
D2xC2LD2-H	Horn & LED	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13	•	•	•	
D2xC2LD2	Horn & LED	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13		•	•	12
D2xC2XH2	Horn & Xenon	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13	•	•	•	
D2xC2XH1	Horn & Xenon	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13	•	•	•	
D2xC1X10	Horn & Xenon	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13		•	•	12
D2xC1X05	Horn & Xenon	•		•	•	CI/II D2	CI Zone 1/22	4/4X/3R/13		•	•	12
IS-mC1	Horn & LED		•			CI D2	CI Zone 1/22	IP65				14

E2S is the world's leading independent warning signals manufacturer with over 25 years of engineering expertise. Our worldwide approved products combine the latest technology with leading industrial design and build quality to deliver signals you can depend on.

Working together with system integrators, engineers and end users in the fire sector we continuously innovate to develop the most comprehensive range of signaling products that are specifically designed for use in fire applications. Our product designs offer substantial benefits such as ease of interface, quick installation, flexible customization and reliable performance. This is why our clients around the world trust E2S to protect their people and promote safety in their processes.

The E2S global network of distributors and partners, sustained by our highly efficient operations and logistics, provide fast product delivery and excellent local customer support.

Find out more at e2s.com















D1x Visual Signals Class I/II Div 1, Zone 1, Zone 20



D1xB2XH1/XH2 - surface mounting



D1xB2XH1/XH2

The D1x family from E2S is the brightest UL1971/UL1638 signal available for Class I/II Div 1 or Zone 1/20 explosion proof applications.

The D1xB2XH2 model has a UL1971 light output of over 190 candelas with an operating current of only 1.16A and the D1xB2XH1 model achieves over 86 candelas whilst drawing only 635mA.

The lightweight, marine grade, enclosure has been designed to create the optimal fire signal. Its innovative construction includes both conduit or surface mounting capabilities - without the need for any additional accessories. For complete flexibility an optional stainless-steel bracket enables the light to be rotated and positioned in any orientation.

Suitable for Class I environments, including all gas groups A, B, C & D, as well as Class II. The extended operating temperature range of up to -67° to +176°F ensures the D1xB2 beacons can be employed in the most arduous of applications.

The unique E2S automatic flash synchronization feature removes the need for additional synchronization modules. When combined with the innovative in-rush limiting electronic circuit design and low operating current, more D1xB2 visual signals can be installed per circuit - simplifying system design and reducing cost.

2

Range Info:

Enclosure Material

Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.

Enclosure color Red (RAL3000)

Ingress Protection Type 4, 4X, 13, 3R, IP67

Fixings Stainless steel

Mounting

Integrated pendant and surfacemount capability. Optional ratchet adjustable stainless steel'U' bracket.

Cable entries

1 x 3/4" NPT rear conduit entry 2 x 3/4" NPT side conduit entries 2 x M20 ISO side conduit/gland entries Stopping plugs included (brass, nickel plated or stainless steel).

Approvals:

Class I Div 1 ABCD T6 Class II Div 1 EFG T6 Class III Div 1 Class I Zone 1 AEx db IIC T6 Zone 20 AEx tb IIIC Ex db IIC T6 Ex tb IIIC 130°C Ta -55°C to +80°C (-67° to + 176°F)





D1xB2XH1/XH2 - pendant mounting

Xenon Strobes

Ref: 1-21-201 D1xB2XH2 21 Joule Xenon Strobe Voltage: 24Vdc (20-28Vdc)

UL1971 190.6 candela Nominal Current: 1.165A Max. Current: 1.36A @ 20V dc In rush: 1.5A - 5ms @ 24V dc Automatically synchronized supervised

public mode visual alarm. 222.5mm x 150.0mm (8.76" x 5.91")

10 Joule Xenon Strobe Voltage: 24Vdc (20-28Vdc)

Ref: 1-21-200

D1xB2XH1

UL1971 86.37 candela Nominal Current: 630mA Max. Current: 765ma @ 20V dc In rush: 817mA - 5ms @ 24V dc

public mode visual alarm. 222.5mm x 150.0mm (8.76" x 5.91")



Automatically synchronized supervised



Full specifications at e2s.com

D1x Combination Signals Class I/II Div 1, Zone 1, Zone 20





The D1x combined signals - audible and visual warning from one device.

The Xenon strobe beacons are combined with alarm horn sounders either employing a traditional flare horn design, or the compact radial horn design which distributes sound omni-directionally and enables the beacon to be oriented optimally in any direction.

Strobe versions include 5 or 10 Joules with candela outputs of up to 1.000.000cd. Available in seven colors with a UV stable PC, field replaceable, filter. The flare version alarm horn sounders are available in sound pressure levels of up to 117 and 125dB(A).

The D1x combined signals in 24Vdc operating voltage are approved for audible public mode and visual private mode fire alarm use.

A threaded flame path enable quick installation and simplifies maintenance inspection whilst the innovative internal arrangement maximises wiring space. The ratchet adjustable mounting bracket allows the device to be positioned for maximum effectiveness.

Approvals:

Class I Division 1 Group ABCD Class | Zone 1 ||C D1xC1X05: T5 Ta -40°C to +70°C T6 Ta -40°C to +55°C D1xC1X10, D1xC2X05, D1xC2X10: T5 Ta -40°C to +55°C T6 Ta -40°C to +50°C

Class II Division 1 Group FG Zone 20 IIIB D1xC1X05, D1xC2X05: T4 Ta -40°C to +55°C T4A Ta -40°C to +40°C

UL, cULs

UL, cULs

Range Info:

Enclosure Material

Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.

Flare Material ABS - UL94 VO 5VA FR

Enclosure & Flare color Red (RAL3000) or Grey (RAL7038)

Lens color filters

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

Ingress Protection

Type 4, 4X, 13, 3R, IP67 Fixings

Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

1 x 1/2" NPT 2 x M20 ISO (or adapted to 1/2" or 3/4" NPT) Stopping plugs included (brass, nickel plated or stainless steel).

Combination Signals with Xenon Strobes

Ref: 1-23-055

D1xC1X05R Radial Alarm Horn & 5 Joule Strobe 24Vdc & 115/230Vac 50/60HZ Max output: 115dB(A) @ 1 metre - 106dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd Peak intensity 500,000cd 122.0mm x 339.0mm (4.80" x 13.33")

Ref: 1-23-065 D1xC1X10R

Radial Alarm Horn & 10 Joule Strobe

24Vdc & 115/230Vac 50/60HZ Max output: 115dB(A) @ 1 metre - 106dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd 122.0mm x 339.0mm (4.80" x 13.33")

D1xC1X05F Flare Alarm Horn & 5 Joule Strobe 24Vdc & 115/230Vac 50/60HZ Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m

Ref: 1-23-050

64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd Peak intensity 500,000cd 181.0mm x 408.0mm (7.13" x 16.06") Ref: 1-23-060

D1xC1X10F

24Vdc & 115/230Vac 50/60HZ Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd 181.0mm x 408.0mm (7.13" x 16.06")

4

Flare Alarm Horn & 10 Joule Strobe

Ref: 1-23-070 D1xC2X05F

Flare Alarm Horn & 5 Joule Xenon 24Vdc & 115/230Vac 50/60HZ Max output: 125dB(A) @ 1 metre - 116dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd Peak intensity 500,000cd 220.0mm x 458.0mm (8.66" x 18.04") Ref: 1-23-080

D1xC2X10F Flare Alarm Horn & 10 Joule Xenon 24Vdc & 115/230Vac 50/60HZ

Max output: 125dB(A) @ 1 metre - 116dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd 220.0mm x 458.0mm (8.66" x 18.04")





Full specifications at e2s.com

D1x Horns & Loudspeakers Class I/II Div 1. Zone 1. Zone 20





The powerful D1x alarm horn sounders are available with traditional flare horn design or the compact radial horn design which distributes the warning signal omni-directionally.

All versions offer 64 different first stage/channel alarm sounds which can be selected via an internal switch. Each tone can be remotely triggered e.g. via an external relay, to change to a second, third or fourth stage/channel alarm sound.

The D1xS1 alarm horn variants, in 24Vdc operating voltage, are approved for public mode fire alarm use.

The D1x PA loudspeaker driver and flare horn is available in 15 or 25W versions. Input options include 8 or 16 ohm low impedance and 70V line transformer.

The 70V line transformer units feature multiple tappings for each version of the loudspeaker. Field replaceable flare - driver employs standard 1 3/8" -18 male thread coupling.

Range Info:

Enclosure Material

Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.

Flare Material ABS - UL94 VO 5VA FR

Enclosure & Flare color Red (RAL3000) or Grey (RAL7038)

Ingress Protection Type 4, 4X, 13, 3R, IP67

Fixings

Stainless steel.

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

1 x 1/2" NPT 2 x M20 ISO (or adapted to 1/2" or 3/4" NPT) Stopping plugs included (brass, nickel plated or stainless steel).

Approvals:

Class I Division 1 Group ABCD Class I Zone 1 IIC T6 Ta -40°C to +70°C Class II Division 1 Group FG Zone 20 IIIB T6 Ta -40°C to +70°C D1x2F D1x2F

Alarm Sounders/Horns

Ref: 1-22-140

D1xS1F Flare Alarm Horn Sounders

24Vdc (10-30vdc) & 115/230Vac 50/60HZ Max output: 117dB(A) @ 1m - 108dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 181.0mm x 285.0mm (7.13" x 11.20")

Ref: 1-22-160

D1xS2F Flare Alarm Horn Sounders 24Vdc (10-30vdc) & 115/230Vac 50/60HZ Max output: 125dB(A) @ 1m - 116dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 220.0mm x 334.mm (8.66" x 13.14")

UL, cULs





Omnidirectional Alarm Horns

Ref: 1-22-150

Max output: 115dB(A) @ 1m

- 106dB(A) @ 10ft/3m

D1xS1R Radial Horn Alarm Sounders 24Vdc (10-30vdc) & 115/230Vac 50/60HZ

64 alarm tones with 4 stages/channels 122.0mm x 215.0mm (4.80" x 8.48")

PA Loudspeakers

Ref: 1-22-180 **D1xL2F PA Loudspeakers 25W** Re-entrant flare horn 70V line transformer 8 or 16 Ohm low impedance Rated SPL 119dB +/-3dB @ 25W @ 1m 220.0mm x 334.mm (8.66" x 13.14")

Ref: 1-22-170 **D1xL1F PA Loudspeakers 15W** Re-entrant flare horn 70V line transformer 8 or 16 Ohm low impedance Rated SPL 113dB +/-3dB @ 15W @ 1m 181.0mm x 285.0mm (7.13" x 11.20")





D2x Visual & Audible Signals - Public Mode Fire

UL1971, UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.





D2xB2LD2-H

D2xB1XH1 / D2xB1XH2



The D2x range provides high-performance signaling for hazardous and industrial locations in a compact enclosure. Globally certified by UL to: NEC Class I/II Div 2 and NEC & CEC Class I Zone 2/22 plus IECEx & ATEX Zone 2/22.

Designed for applications requiring compliant signals to UL464 and UL1638 for public mode fire alarm installations and to UL1971 as emergency-signaling devices for the hearing impaired

The D2xB1LD2-H is a synchronized, supervised, hazardous location LED beacon signal with a 38.38cd output. Automatically synchronized without the need for additional modules. Industry leading low in-rush and minimal current consumption coupled with a LED life time of over 60,000 hours - the D2xB1LD2-H is the next generation of hazardous location fire signals.

The D2xB1XH1 (19.70cd) and the D2xB1XH2 (77.72cd) satisfy applications requiring Xenon strobes. These high output visual signals also automatically synchronize without the need for additional modules, reducing overall system cost and installation time. Designed to minimize inrush and maximize the number of devices per circuit.

For complete audio-visual warning the D2xC2 type combination unit provides the ultimate in fire signaling. With a sound output up to 116dB(A), 64 alarm tone frequencies and 4 remotely selectable stages/chanels, the alarm horn can provide safe signaling for multiple scenarios from one device. The integrated LED or Xenon beacon can be linked internally to the alarm horn minimizing cabling and installation time.

The entire assembly is automatically synchronized with other D2xC2 units on the same circuit without the need for synchronization modules. The D2xS1 alarm horn is also available for applications requiring only audible signaling.

The marine grade aluminum enclosure with an ingress protection of IP66/Type 4, 4X is suitable for the harshest of environments. The range is approved for use in both gas and dust atmospheres.

Range info

Material LM6 & A1-Si12 Marine Grade Aluminum

Ingress Protection

IP66, Type 4, 4X, 13

Fixings Stainless steel

Mounting

Beacon: Surface or 3/4" conduit pendant Horn/Combination: Surface mount

Cable entries

Beacon: 2 x 1/2"NPT. 1 x 3/4"NPT and 2 x M20 ISO

Horn/Combination: 2 x M20 ISO

Enclosure color RAL3000 Red.

Approvals

Class I Div 2 Groups A, B, C, D Class II Div 2 Groups E, F & G Class III Div 1 & 2

Class I Zone 2 AEx nA IIC Gc Class I Zone 22 AEx tc IIC Dc

Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc

NEC, CEC, ATEX, IECEX

D2xS1

Alarm Sounders/Horns UL464

Ref: 1-32-025 D2xS1 Alarm Horn Sounder 24Vdc - 10-30Vdc 313mA @ 24Vdc 1.81A for 9ms in-rush

Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 181.0mm x 273.1mm (7.13" x 10.75")

Automatically synchronized supervised public mode audible alarm.

24Vdc - 16-33Vdc 276mA @ 24Vdc (60fpm) 800mA for 5.42ms in-rush Effective candela: 19.70cd - UL1971 Energy: 5 Joules

Ref: 1-31-080

UL1638 & UL1971

Ref: 1-31-060

24Vdc - 16-33Vdc

Ref: 1-31-070

1.88A for 2ms in-rush

D2xB1XH2 Xenon Strobe Beacon/Light 24Vdc - 16-33Vdc 615mA @ 24Vdc (60fpm) 828mA for 4.4ms in-rush Effective candela: 77.72cd - UL1971 Energy: 10 Joules Flash modes: 60fpm / 80fpm / 120fpm Remotely activated 2nd stage/channel mode

130.3mm x 130.3mm (5.13" x 5.13") Automatically synchronized supervised public mode visual alarm.



D2xC2XH1/XH2

D2xC2LD2-H

LED & Xenon Beacons/Lights

D2xB1LD2-H LED Beacon/Light

99.5mA @ 24Vdc (60fpm)

Effective candela: 38.38cd - UL1971 Flash modes: 60fpm / 80fpm / 120fpm Remotely activated 2nd stage/channel mode

D2xB1XH1 Xenon Strobe Beacon/Light

Combination Signals UL464. UL1638 & UL1971

Ref: 1-34-040 D2xC2LD2-H Alarm Horn & LED Beacon 24Vdc - 16-33Vdc 412.5mA @ 24Vdc (60fpm) 2.1A for 10ms in-rush Effective candela: 38.38cd - UL1971 Flash modes: 60fpm / 80fpm/ 120fpm Remotely activated 2nd stage/channel mode Ref: 1-34-050 D2xC2XH1 Alarm Horn & Xenon Beacon 24Vdc - 20-28Vdc 405mA @ 24Vdc (60fpm) 2.2A for 9ms in-rush Effective candela: 19.70cd - UL1971 Energy: 5 Joules Ref: 1-34-050 D2xC2XH2 Alarm Horn & Xenon Beacon 24Vdc - 20-28Vdc

759mA @ 24Vdc (60fpm) 2.3A for 9ms in-rush Effective candela: 77.72cd - UL1971 Energy: 10 Joules

Horn: Max 107dB(A) @ 10ft/3m 181.0mm x 403.4mm (7.13" x 15.88") Automatically synchronized supervised public mode audible and visual alarm.

(4)









Full specifications at **e2s.com**

D2x Visual & Audible Signals - Private Mode Fire

UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.



The D2x range provides high-performance signaling for hazardous and industrial locations in a compact enclosure. The alarm horn sounders and combination signals are globally certified by UL to: NEC Class I/II Div 2 and NEC & CEC Class I Zone 2/22, IECEx & ATEX Zone 2/22.

Designed for applications requiring compliant signals to UL464 and UL1638 for private mode fire alarm installations.

The D2xB1X05 & X10 are supervised, hazardous location, Xenon strobe beacon signals. 24Vdc versions are UL & cUL approved for visual private mode fire alarm use (UL1638).

The D2xC1X05 & X10 are supervised, hazardous location, combination alarm horn and Xenon beacon signals. 24Vdc versions are UL & cUL approved for audible public mode (UL464) and visual private mode fire alarm use (UL1638).

The D2xS1 is a supervised, hazardous location, alarm horn sounder featuring 64 alarm tones and 4 remotely activated stages/channels. The 24Vdc version is UL & cUL approved for audible (UL464) public mode fire alarm use. The audible output is automatically synchronized without the need for additional modules.

The marine grade aluminum enclosure with an ingress protection of IP66/Type 4, 4X is suitable for the harshest of environments. The range is approved for use in both gas & dust atmospheres.

Range info

Material LM6 & A1-Si12 Marine Grade Aluminum

Ingress Protection

IP66, Type 4, 4X, 13 Fixings

Stainless steel

Mounting

Beacon: Surface or 3/4" conduit pendant Horn/Combination: Surface mount

Cable entries

Beacon: 2 x 1/2"NPT. 1 x 3/4"NPT and 2 x M20 ISO

Horn/Combination: 2 x M20 ISO

Enclosure color RAL3000 Red

Approvals

Class I Div 2 Groups A, B, C, D Class II Div 2 Groups E, F & G Class III Div 1 & 2

Class I Zone 2 AEx nA IIC Gc Class I Zone 22 AEx tc IIC Dc

Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc

NEC, CEC, ATEX, IECEX



 $(\mathbf{\hat{P}})$ D2xC

Ref: 1-31-065

115/230Vac 50/60Hz

UL464 & UL1638

Alarm Sounders/Horns UL464

Ref: 1-32-025 D2xS1 Alarm Horn Sounder

12/24/48Vdc & 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 181.0mm x 273.1mm (7.13" x 10.75")

Xenon Strobe Beacons UL1638

Ref: 1-31-040 D2xB1X05 Xenon Strobe 20-28Vdc 275mA @ 24Vdc 115/230Vac 50/60Hz. 5 Joule Xenon beacon. Effective intensity 250cd Flash rates:60fpm - 1Hz 90fpm - 1.5Hz Double strike 130.3mm x 130.3mm (5.13" x 5.13")

Ref: 1-31-050

D2xB1X10 Xenon Strobe 20-28Vdc 560mA @ 24Vdc 115/230Vac 50/60Hz. 10 Joule Xenon beacon. Effective intensity 500cd Flash rates:60fpm - 1Hz 90fpm - 1.5Hz Double strike 130.3mm x 130.3mm (5.13" x 5.13")

Ref: 1-34-045 D2xC2LD2 Alarm Horn & LED Beacon 24Vdc 412.5mA @ 24Vdc 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels Effective candela: 73.4 cd UL1638 Modes: 60fpm/80fpm/120fpm, Steady,

& Yellow lenses 130.0mm x 310.3mm (5.12" x 12.22")

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D2xC2

LED Beacons UL1638

D2xB1LD2 LED Beacon 18-54Vdc 99.5mA @ 24Vdc

Effective candela: 73.4 cd UL1638 Modes: 60fpm/80fpm/120fpm, Steady, Double strike & Triple Strike Remotely activated 2nd & 3rd stage/channels 130.3mm x 130.3mm (5.13" x 5.13")

Combination Signals with LED

Double strike & Triple Strike Remotely activated 2nd & 3rd stage/channels Amber, Blue, Clear, Green, Magenta, Red

Combination Signals with Xenon UL464 & UL1638

Ref: 1-34-020

D2xC1X05 Alarm Horn Sounder & Xenon Strobe Beacon 20-28Vdc 518mA @ 24Vdc 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 5 Joule Xenon beacon. Effective intensity 250cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 130.0mm x 267.5mm (5.12" x 10.54") Ref: 1-34-030 D2xC1X10 Alarm Horn Sounder & Xenon Strobe Beacon

20-28Vdc 823mA @ 24Vdc 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon. Effective intensity 500cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 130.0mm x 267.5mm (5.12" x 10.54")









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IS-mini Range

Class I Div 1, Zone 0, 1 & 2 - Haz Loc.







IS-mB1

L.E.D Warning Signal

Ref: 1-11-010

IS-mB1 IS-minialite L.E.D Beacon 16-28Vdc via Zener barrier or galvanic isolator 16-28Vdc via Zener barrier or galvanic isolator

Array of 6 high intensity L.E.D.s. Effective intensity 23cd Double flash at 1Hz and 2Hz Red, Amber, Blue, Green & Clear lenses Diameter: 88.7mm Length: 85.0mm Diameter: 3.49" Length: 3.35"

Alarm Sounder/Horn

Ref: 1-12-010 IS-mA1 IS-minialarm

16-28vdc via Zener barrier or galvanic isolator 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 49 alarm tones with 3 stages/channels Diameter: 88.7mm Length: 99.0mm Diameter: 3.49" Length: 3.90"

IS-mA1

The compact IS mini-range offers a complete audible and visual signaling solution for Zone 0 applications.

The IS-mA1M minialarm is also suitable for group I mining use. The devices can be operated from a single Zener barrier or galvanic isolator. The sounders feature 49 alarm tones that can be selected by an internal switch, each one can be remotely changed to a second or third stage alarm sound. The beacon section can be set internally for a flash rate of either 1Hz or 2Hz. The combined unit sounder and beacon can be operated simultaneously from one barrier or from separate barriers if independent operation is required.

Range info Material & Color UL94V0 & 5VA FR ABS & PC, RAL 3000 Red

Ingress Protection

IP65

Fixings

Stainless steel

Mounting Surface mount.

Cable entries

2 x M20 clearance gland knockouts.

Approvals

II 1G Ex ia IIC T4 Ga - Zone 0, 1 & 2 IS Class I, Div 1, Groups A, B, C, D T4 IS Class I, Zone O, AEx ia IIC T4 IS-mA1M: I M1 Ex ia I Ma (Mining)

ATEX, IECEx, FM

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IS-mC1 IS-minialert

Ref: 1-13-010

Combination Signal

100dB(A) @ 1m - 91dB(A) @ 10ft/3m 49 alarm tones with 3 stages/channels Array of 6 high intensity L.E.D.s. Effective intensity 23cd Double flash at 1Hz and 2Hz Red, Amber, Blue, Green & Clear lenses Diameter: 88.7mm Length: 116.0mm Diameter: 3.49" Length: 4.57"

IS-mC1













D1x Pull Stations

Class I/II Div 1/2



D1xCP1-PS Explosion Proof Manual Pull Stations.

The D1xCP1-PS is a cast aluminum manual alarm pull station available in a dual action configuration. These explosion proof stations have a DPDT switch mounted in heavy duty cast aluminum housings, complete with screw terminals that accept #22 to 12AWG field wiring.

The solid design and rugged construction of the D1xCP1-PS station makes it ideal for use in harsh operating environments and hazardous locations. The device has a NEMA type 4X rating for operation in extreme weather conditions and plant wash down applications. It is also UL Marine listed for operation in highly corrosive environments.

The D1xCP1-PS dual action model features a "PUSH" bar that moves inward, allowing the "PULL" handle to be grasped and operated by a single hand.

Range info	(III)
Naterial	CERTIFIED
Numinum	
ngress Protection	
ype: 4X	
Cable entries	\sim
2 x 3/4"NPT	<fm></fm>
	APPROVED

Approvals

Class I, Div. 1, Group B, C and D Class II, Div. 1, Group E, F and G Class III, Div. 1 (FM) Ta: -40° to 150°F

Pull Station

Ref: 1-24-110 D1xCP1-PS Pull Station Double Pole, Double Throw (DPDT) 1 Amp @ 30 VDC 10 Amp @ 120 VAC UL Marine Listed 5/16"h x 3 1/4"w x 3 7/8"d)

M Audible Signals - Loudspeakers

Industrial Fire Signals



The 'M' series of products, constructed from lightweight, impact and fire resistant ABS, have been designed to withstand the harshest of environments.

The range features stainless steel, ratchet adjustable mounting brackets and have been third party tested to Type 4/4X/ 3R/13 and IP66/67. All models have dual cable entries and large termination areas containing in & out terminals.

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 Type: 4/4X/3R/13, IP66/67

Fixings Stainless steel.

Mounting Ratchet adjustable stainless steel 'U' bracket.

Cable entries 2 x 1/2"NPT with 1 blanking plug M20 and 3/4"NPT optional

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")







CE EAC

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Audible

The benefits of working with E2S

- E2S is the world's leading independent signalling manufacturer
- Our life saving signalling products help you create safer environments
- We have global reach and local technical support on every continent
- Working closely with you means we meet your specific needs
- Our products have proven performance across a range of applications
- We continually invest in the latest technology, innovation and research to create the best signalling products possible

E2S global network

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Afghanistan Algeria Australia Austria Azerbaijan Bahrain Belgium Brazil Canada Canary Islands Chile China Cyprus Czech Republic Denmark Egypt Estonia Ethiopia

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Finland France Germany Ghana Hungary India Indonesia Iran Iraq Ireland Israel Italy Japan Jordan Kazakhstan Kenya Korea Kuwait

Lebanon Libya Malaysia Malta Mauritania Mauritius Mexico Morocco Netherlands New Zealand Nigeria Norway Philippines Poland Qatar Russia Saudi Arabia Singapore Slovakia South Africa South Sudan Spain Sultanate of Oman Sweden Switzerland Syria Taiwan Taiwan Tanzania Thailand Tinidad and Tobago Tunisia Turkey U.A.E U.S.A United Kingdom Yemen

For full details please visit e2s.com



E2S Warning Signals

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