Fire: Explosion proof
Hazardous location
and Industrial signals

E2S
warning signals
E2S is the world’s leading independent warning signals manufacturer with over 27 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

<table>
<thead>
<tr>
<th>Model#</th>
<th>Description</th>
<th>UL (Fire Listed)</th>
<th>ULc (Inherently Safe)</th>
<th>FM, NEC, FSS, CE, IECEx, VdS, GOST-R</th>
<th>LUS (US Listed)</th>
<th>LUSc (ULc Listed)</th>
<th>LUSv (VdS Listed)</th>
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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
Material: Aluminum
Ingress Protection: Type: 4X
Cable entries: 2 x 3/4"NPT
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: -20°C to 100°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

GNExCP7 Push Buttons
Class I/II Div 2, Class I Zone 1, Zone 21

GNExCP7-PT/PM/PB Hazardous Location Manual Push Buttons.
The GNExCP7-PT is a UL38 fire alarm push button in a robust, corrosion proof GRP (glass reinforced polyester) enclosure. The push button mechanism, manufactured from stainless steel, is protected from accidental activation by a latching lift flap. Once activated, the push button is reset using a special tool.

Available in single switch (SPDT) or double switch (DPDT) configurations the enclosure features a large wiring area provided with either DIN rail terminals or the innovative E2S termination PCB with multiple connectors for EOL and series resistors and diodes - all of which can be field installed or modified.

Globally approved by UL to NEC, CEC, ATEX and IECEx codes the GNExCP7 family of manual alarm call points can be installed in all Class I/II Div 2 hazardous location and Class I Zone 1 and Zone 21 applications anywhere in the world.

The GNExCP7-PM model offers a momentary switch action whilst the GNExCP7-PB requires a twist and push action to activate.

Range info
Material: GRP (Glass Reinforced Polyester)
Ingress Protection: IP66, Type 4/4x/3R/13
Cable entries: 3 x cable entries
Approvals: Class I, Div. 2, Group A, B, C and D
Class II, Div. 1, Group E, F and G
Class III, Div. 2
Class I Zone 1
Zone 21
Ta: -55° to 70°C (-67° to +158°F)

Pull Station
Ref: 1-24-170
GNExCP7-PT Push Button - Tool reset
Ref: 1-24-170
GNExCP7-PM Push Button - Momentary
Ref: 1-24-180
GNExCP7-PB Push Button - Momentary

Full specifications at e2s.com
**D1x Visual Signals**  Class I/II Div 1, Zone 1, Zone 21

The D1x family from E2S is the brightest UL1971/UL1638 signal available for Class I/II Div 1 or Zone 1/21 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 60 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°F 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.

**Range Info:**
- **Enclosure Material:** Corrosion proof, marine grade, copper free LM6 aluminum, chromated and powder coated.
- **Enclosure color:** Red (RAL3000)
- **Ingress Protection:** Type 4, 4X, 13, 3R, IP67
- **Fixings:** Stainless steel.
- **Mounting:** Integrated pendant and surface mount 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 II Div 2
- Class I Zone 1 AEx db IIC T6
- Zone 21 AEx tb IIIC
- Ex db IIC T6
- Ex tb IIC 130°C
- Ta -55°C to +80°C (-67° to +176°F)

**Xenon Strobes**
- Ref: 1-21-200
  D1xB2XH1
  10 Joule Xenon Strobe
  Voltage: 24Vdc (20-28Vdc)
  UL1971 86.37 candela
  Nominal Current: 1.16A
  Max. Current: 765mA @ 20Vdc
  In rush: 817mA - 5ms @ 24Vdc
  Automatically synchronized supervised public mode visual alarm.
  222.5mm x 150.0mm (8.76” x 5.91”)

- Ref: 1-21-210
  D1xB2XH2
  21 Joule Xenon Strobe
  Voltage: 24Vdc (20-28Vdc)
  UL1971 190.6 candela
  Nominal Current: 1.165A
  Max. Current: 1.36A @ 20Vdc
  In rush: 1.5A - 5ms @ 24Vdc
  Automatically synchronized supervised public mode visual alarm.
  222.5mm x 150.0mm (8.76” x 5.91”)

Full specifications at e2s.com
D1x Visual Signals  Class I/II Div 1, Class Zone 1, Zone 21

The globally approved D1xB2 family from E2S offer the most comprehensive range of solutions for UL1638 signaling in Class I/II Div 1 or Zone 1/2 explosion proof applications.

The D1xB2X05, X10, X15 and X21 Xenon strobe beacons offer a range of light outputs options including 5 Joule, 10 Joule, 15 Joule Xenon plus multifunction LED - all with industry leading candela ratings.

UL approved to NEC, CEC, IECEx and ATEX codes the D1xB2 family of visual signals can be installed in all Class I/II explosion proof and Class I Zone 1 and Zone 21 flameproof applications anywhere in the world. Safety integrity level compliance of SIL1 is standard on all D1xB2 beacons and SIL2 is available as an option on the Xenon strobe versions.

The lightweight, marine grade, enclosure has been designed to create the optimal visual 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.

The extended operating temperature range of up to -67° to +176°F (-55°C to +80°C) ensures the D1xB2 beacons can be employed in the most arduous of applications.

The unique E2S automatic flash synchronization feature combined with the innovative in-rush limiting electronic circuit design and low operating current eliminate system design constraints and reduce cost.

Range Info:

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<tr>
<th>Enclosure Material</th>
<th>Corrosion proof, marine grade, copper free LM6 aluminum, chromated and powder coated.</th>
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<td>Fixings</td>
<td>Stainless steel.</td>
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<tr>
<td>Mounting</td>
<td>Integrated pendant and surface mount capable. Optional ratchet adjustable stainless steel ‘U’ bracket.</td>
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<td>Cable entries</td>
<td>1 x 3/4’ NPT rear conduit entry  2 x 3/4’ NPT side conduit entries  2 x M20 ISO side conduit/gland entries. Shimming plugs included (brass, nickel plated or stainless steel).</td>
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<td>Approvals</td>
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Xenon Strobes

Ref: 1-21-205
D1xB2X21
21 Joule Xenon Strobe
Voltage: 24Vdc (20-28Vdc), 115Vac, 110-120Vac, 230Vac, 220-400Vac.
Effective candela to IES: 2,100.66cd
Peak candela (calc): 2,100,000cd
Nominal Current: 1.13A
In rush: 1.5A - 5ms @ 24Vdc
Three flash rates: 1Hz, 1.5Hz & 2 x flash
Automatically synchronized
Dimensions: 252.34mm x 150.0mm (9.93” x 5.91”)

Ref: 1-21-204
D1xB2X15
15 Joule Xenon Strobe
Voltage: 24Vdc (20-28Vdc), 115Vac, 110-120Vac, 230Vac, 220-400Vac.
Effective candela to IES: 2,100.66cd
Peak candela (calc): 1,500,000cd
Nominal Current: 1.13A
In rush: 1.5A - 5ms @ 24Vdc
Three flash rates: 1Hz, 1.5Hz & 2 x flash
Automatically synchronized
Dimensions: 252.34mm x 150.0mm (9.93” x 5.91”)

Ref: 1-21-203
D1xB2X10
10 Joule Xenon Strobe
Voltage: 24Vdc (20-28Vdc), 115Vac, 110-120Vac, 230Vac, 220-400Vac.
Effective candela to IES: 1,250.66cd
Peak candela (calc): 1,000,000cd
Nominal Current: 1.13A
In rush: 1.5A - 5ms @ 24Vdc
Three flash rates: 1Hz, 1.5Hz & 2 x flash
Automatically synchronized
Dimensions: 252.34mm x 150.0mm (9.93” x 5.91”)

Ref: 1-21-202
D1xB2X05
5 Joule Xenon Strobe
Voltage: 24Vdc (20-28Vdc), 115Vac, 110-120Vac, 230Vac, 220-400Vac.
Effective candela to IES: 645.21cd
Peak candela (calc): 490,000cd
Nominal Current: 605mA
In rush: 990mA - 5ms @ 24Vdc
Three flash rates: 1Hz, 1.5Hz & 2 x flash
Automatically synchronized
Dimensions: 252.34mm x 150.0mm (9.93” x 5.91”)

LED Beacon

Ref: 1-21-206
D1xB2LD2
High Output LED Beacon
Voltage: 24Vdc (20-28Vdc), 115Vac, 110-120Vac, 230Vac, 220-240Vac.
Effective candela to IES: 338cd
Peak candela (calc): 1,500,000cd
Nominal Current: 230mA
In rush: 1.22A - 2ms @ 24Vdc
Five flash rates: 1Hz, 1.5Hz, 2 Hz, double and triple flash
High and low power Steady modes
Three remotely selectable flash modes
Automatically synchronized
Dimensions: 252.34mm x 150.0mm (9.93” x 5.91”)

Full specifications at e2s.com
The D1x combination 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 omnidirectionally 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 maximizes wiring space. The ratchet adjustable mounting bracket allows the device to be positioned for maximum effectiveness.

Approvals:
Class I Div. 1 Group ABCD
Class II Zone 1
Class II Zone 20

D1xC1X05:
T5 Ta -40°C to +70°C
T6 Ta -40°C to +50°C
T4 Ta -40°C to +50°C

D1xC1X10:
T5 Ta -40°C to +50°C
T6 Ta -40°C to +50°C

UL, cULs

Class I Division 1 Group FSG
Zone 20 NB
D1xC1X05, D1xC2X05:
T4 Ta -40°C to +50°C
T4A Ta -40°C to +40°C

UL, cULs

D1xC1X10R
D1xC1X10R
D1xC2X05F
D1xC2X05F
D1xC2X10F
D1xC2X10F

Combination Signals with Xenon Strobes

Ref: 1-23-050
D1xC1X05F
Radial Alarm Horn & 5 Joule Strobe
24Vdc & 115/230Vac 50/60Hz
Max output: 115dB(A) @ 1 metre
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: 1-23-060
D1xC1X10F
Radial Alarm Horn & 10 Joule Strobe
24Vdc & 115/230Vac 50/60Hz
Max output: 117dB(A) @ 1 metre
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”)

Ref: 1-23-070
D1xC2X05F
Flare Alarm Horn & 5 Joule Xenon
24Vdc & 115/230Vac 50/60Hz
Max output: 125dB(A) @ 1 metre
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: 127dB(A) @ 1 metre
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”)

Enclosure Material
Combustion proof, marine grade, copper free LM6 aluminum, chromated and powder coated.

Flare Material
ABS - UL94 V0 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)

Shopping plugs included (brass, nickel plated or stainless steel).

Full specifications at e2s.com
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.
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 (18.18cd) and the D2xB1XH2 (70.29cd) 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/channels, 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 D2x 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.

**D2x Visual & Audible Signals - Public Mode Fire**

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

---

**LED & Xenon Beacons/Lights**

**UL1971 & UL1638**

Ref: 1-31-060

D2xB1LD2-H LED Beacon/Light

24Vdc - 16-33Vdc

99.5mA @ 24Vdc

1.81A for 9ms in-rush

Effective candela: 38.38cd - UL1971

Flash modes: 60fpm / 80fpm / 120fpm

Automatically synchronized supervised public mode visual alarm.

---

Ref: 1-31-070

D2xB1XH1 Xenon Strobe Beacon/Light

24Vdc - 16-33Vdc

276mA @ 24Vdc

800mA for 5.42ms in-rush

Effective candela: 18.18cd - UL1971

Energy: 5 Joules

Automatically synchronized supervised public mode audible alarm.

---

Ref: 1-31-080

D2xB1XH2 Xenon Strobe Beacon/Light

24Vdc - 16-33Vdc

615mA @ 24Vdc

828mA for 4.4ms in-rush

Effective candela: 70.29cd - UL1971

Energy: 10 Joules

130.3mm x 130.3mm (5.13” x 5.13”)

Automatically synchronized supervised public mode visual alarm.

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**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.

---

**LED & Xenon Beacons/Lights**

**UL1971, UL1638 & UL464**

Ref: 1-34-040

D2xC2LD2-H Alarm Horn & LED Beacon

24Vdc - 16-33Vdc

412.5mA @ 24Vdc

2.1A for 10ms in-rush

Effective candela: 38.38cd - UL1971

Flash modes: 60fpm / 80fpm / 120fpm

Automatically synchronized supervised public mode audible alarm.

---

Ref: 1-34-050

D2xC2XH1 Alarm Horn & Xenon Beacon

24Vdc - 20-28Vdc

405mA @ 24Vdc

2.2A for 9ms in-rush

Effective candela: 18.18cd - UL1971

Energy: 5 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.

---

Ref: 1-34-050

D2xC2XH2 Alarm Horn & Xenon Beacon

24Vdc - 20-28Vdc

759mA @ 24Vdc

2.3A for 9ms in-rush

Effective candela: 70.29cd - 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.

---

**Combination Signals**

**UL464, UL1638 & UL1971**

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**D2x Visual & Audible Signals - Public Mode Fire**

**Ref: 1-31-060**

D2xB1LD2-H LED Beacon/Light

24Vdc - 16-33Vdc

99.5mA @ 24Vdc

1.81A for 9ms in-rush

Effective candela: 38.38cd - UL1971

Flash modes: 60fpm / 80fpm / 120fpm

Automatically synchronized supervised public mode visual alarm.

---

D2xB1XH1 Xenon Strobe Beacon/Light

24Vdc - 16-33Vdc

276mA @ 24Vdc

800mA for 5.42ms in-rush

Effective candela: 18.18cd - UL1971

Energy: 5 Joules

Automatically synchronized supervised public mode audible alarm.

---

D2xB1XH2 Xenon Strobe Beacon/Light

24Vdc - 16-33Vdc

615mA @ 24Vdc

828mA for 4.4ms in-rush

Effective candela: 70.29cd - UL1971

Energy: 10 Joules

130.3mm x 130.3mm (5.13” x 5.13”)

Automatically synchronized supervised public mode visual alarm.

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**D2x Non-Sparking Signals**

**D2xS1D2xB2LD2-H**

**D2xC2XH1/XH2**

**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.

**Ref: 1-31-080**

D2xB1XH2 Xenon Strobe Beacon/Light

24Vdc - 16-33Vdc

615mA @ 24Vdc

828mA for 4.4ms in-rush

Effective candela: 70.29cd - UL1971

Energy: 10 Joules

130.3mm x 130.3mm (5.13” x 5.13”)

Automatically synchronized supervised public mode visual alarm.

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**Combination Signals**

**UL464, UL1638 & UL1971**

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**D2xC2LD2-H Alarm Horn & LED Beacon**

24Vdc - 16-33Vdc

412.5mA @ 24Vdc

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

2.2A for 9ms in-rush

Effective candela: 18.18cd - UL1971

Energy: 5 Joules

Ref: 1-34-050

**D2xC2XH2 Alarm Horn & Xenon Beacon**

24Vdc - 20-28Vdc

759mA @ 24Vdc

2.3A for 9ms in-rush

Effective candela: 70.29cd - 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.

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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 & A3 Si 12 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 IC Gc
Class I Zone 22 AEx na IC Gc
Zone 2 II 3G Ex n IC Gc
Zone 22 II 3G Ex n IC Gc
NEC, CEC, IECEx, IECEx

Alarm Sounders/Horns UL464
Ref: 1-32-025
D2xS1 Alarm Horn Sounder
12/24/48Vdc & 115/230Vac 50/60Hz.
Max 116dBA @ 1m - 107dBA @ 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 270mA @ 24Vdc
115/230Vac 50/60Hz
5 Joule Xenon beacon,
Effective intensity 250cd
Flash rate: 60/120/180 bpm, Steady,
Double Strike & Triple Strike
130.3mm x 130.3mm (5.13” x 5.13”)

D2xB1X10 Xenon Strobe
20-28Vdc 560mA @ 24Vdc
115/230Vac 50/60Hz
10 Joule Xenon beacon,
Effective intensity 500cd
Flash rate: 60/120/180 bpm, Steady,
Double Strike & Triple Strike
130.0mm x 130.0mm (5.13” x 5.13”)

D2xC1X05 Alarm Horn & Xenon Beacon
24Vdc 518mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 10ft/3m
64 alarm tones with 4 stages/channels
5 Joule Xenon beacon,
Effective intensity 250cd
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses
130.3mm x 267.5mm (5.12” x 10.54”)

D2xC1X10 Alarm Horn & Xenon Beacon
24Vdc 823mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 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”)

LED Beacons UL1638
Ref: 1-34-045
D2xC2LD2 Alarm Horn & LED Beacon
24Vdc 412.5mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 10ft/3m
64 alarm tones with 4 stages/channels
Effective candela: 73.4 cd
Flash rate: 60/120/180 bpm, Steady,
Double Strike & Triple Strike
Remotely activated 2nd & 3rd stage/channels
86.0mm x 310.3mm (3.39” x 12.22”)

Combination Signals with LED UL464 & UL1638
Ref: 1-34-040
D2xC2LD2 Alarm Horn & LED Beacon
24Vdc 412.5mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 10ft/3m
64 alarm tones with 4 stages/channels
Effective candela: 73.4 cd
Flash rate: 60/120/180 bpm, Steady,
Double Strike & Triple Strike
Remotely activated 2nd & 3rd stage/channels
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses
130.3mm x 310.3mm (5.12” x 12.22”)

Combination Signals with Xenon UL464 & UL1638
Ref: 1-34-030
D2xC1X05 Alarm Horn Sounder & Xenon Strobe Beacon
20-28Vdc 518mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 10ft/3m
64 alarm tones with 4 stages/channels
5 Joule Xenon beacon,
Effective intensity 250cd
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses
130.3mm x 267.5mm (5.12” x 10.54”)

D2xC1X10 Alarm Horn Sounder & Xenon Strobe Beacon
20-28Vdc 823mA @ 24Vdc
115/230Vac 50/60Hz
Max 116dBA @ 1m - 107dBA @ 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”)

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.

D2x Visual & Audible Signals - Private Mode Fire
UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.

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.

D2x Visual & Audible Signals - Private Mode Fire
UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.
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 & V-0 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 3G Ex ia IIC T4 Ga-Jo: Zone D, 1 & 2
- IS Class I, Div 1, Groups A, B, C, D T4
- IS Class I, Zone 0, AEx ia IIC T4 ExAM
- IIEx ia I Ma (Mining)

**LED Warning Signal**
- Ref: 1-11-010
- IS-mB1 IS-minialite L.E.D Beacon
- 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
- Alarm Sounder/Horn
- Diameter: 4.97" Length: 3.85"

**Combination Signal**
- Ref: 1-13-010
- IS-mC1 IS-minialert
- 16-28Vdc via Zener barrier or galvanic isolator
- 100dB(A) @ 1m - 91dB(A) @ 10ft/3m
- 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
- Alarm Sounder/Horn
- Diameter: 4.97" Length: 4.57"
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**

<table>
<thead>
<tr>
<th>Material</th>
<th>High impact UL94 V0 &amp; 5VA FR ABS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingress Protection</td>
<td>Type: 4/4X/3R/13, IP66/67</td>
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<tr>
<td>Fixings</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Ratchet adjustable stainless steel ‘U’ bracket</td>
</tr>
<tr>
<td>Cable entries</td>
<td>2 x 1/2&quot;NPT with 2 blanking plug M20 and 3/4&quot;NPT optional</td>
</tr>
</tbody>
</table>

**PA Loudspeakers**

- **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: 2-24-010

- **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: 2-24-020

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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