



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX ULD 14.0004X</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 7	Issue 6 (2023-10-17)
Date of Issue:	2023-10-18		Issue 5 (2022-03-28)
Applicant:	<b>European Safety Systems Limited</b> Impress House Mansell Road Acton London W3 7QH <b>United Kingdom</b>		Issue 4 (2019-11-25)
Equipment:	<b>Beacons, Sounders, sounder/ beacon combinations and Junction boxes, D2xS1 (sounder), D2xS2 (sounder), D2xL* (Loudspeaker), D2xC1 (sounder beacon), D2xB1 (beacon), D2xC2 (sounder beacon), D2xJ1 (junction box).</b>		Issue 3 (2018-06-11)
Optional accessory:			Issue 2 (2017-09-29)
Type of Protection:	<b>Increased Safety "ec" and Dust Ignition Protection by Enclosure "tc"</b>		Issue 1 (2015-05-11)
Marking:	Ex ec IIC T6...T1 Gc Ex tc IIIC T55°C...T110°C Dc <b>Please see Annex for additional temperature range information.</b>		Issue 0 (2015-03-03)

Approved for issue on behalf of the IECEx  
Certification Body:

**Lucy Frieders**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

2023-10-18

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Certificate issued by:

**UL Solutions (Demko)**  
**Borupvang 5A**  
**Ballerup DK-2750**  
**Denmark**





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Manufacturer: **European Safety Systems Limited**  
Impress House  
Mansell Road  
Acton  
London  
W3 7QH  
**United Kingdom**

Manufacturing locations: **European Safety Systems Limited**  
Impress House  
Mansell Road  
Acton  
London  
W3 7QH  
**United Kingdom**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[DK/ULD/ExTR14.0009/00](#)  
[DK/ULD/ExTR14.0009/03](#)  
[DK/ULD/ExTR14.0009/06](#)

[DK/ULD/ExTR14.0009/01](#)  
[DK/ULD/ExTR14.0009/04](#)  
[DK/ULD/ExTR14.0009/07](#)

[DK/ULD/ExTR14.0009/02](#)  
[DK/ULD/ExTR14.0009/05](#)

Quality Assessment Report:

[GB/SIR/QAR06.0020/11](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

D2xS1 (sounder) comprises an aluminum enclosure housing components to generate selectable tones. The enclosure is sealed with o-rings to prevent ingress of dust or water. Up to two M20 threaded entries may be provided for installation of appropriately certified cable entry devices by the end user.

D2xS2 (sounder) comprises an aluminium enclosure housing components to generate selectable tones. The enclosure is sealed with o-rings to prevent ingress of dust or water. Up to three M20 threaded entries may be provided for installation of appropriately certified cable entry devices by the end user.

D2xC1X05 (sounder beacon) is the same aluminum housing as the D2xS1, except on one end the beacon assembly is mounted. The lamp is protected by a lens and wire guard. The lens and retaining ring screws are sealed with o-rings to prevent ingress of dust or water. Additional electrical components associated with the operation of the 5 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xC1X10 (sounder beacon) is the same aluminum housing as the D2xS1, except on one end the beacon assembly is mounted. The lamp is protected by a lens and wire guard. The lens and retaining ring screws are sealed with o-rings to prevent ingress of dust or water. Additional electrical components associated with the operation of the 10 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xB1X05 (beacon) comprises an aluminum enclosure housing components to generate visual outputs. The enclosure is sealed with o-rings to prevent ingress of dust and water. Up to 7 M20, ½ NPT or ¾ NPT threaded entries may be provided for installation of appropriately certified cable entry devices by the end user. The lamp is protected by a lens and an optional wire guard. Additional electrical components associated with the operation of the 5 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xB1X10 (beacon) is the same aluminium housing enclosure as the D2xB1X05. The lamp is protected by a lens and an optional wire guard. Additional electrical components associated with the operation of the 10 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xB1LD2 (beacon) is the same aluminum housing enclosure as the D2xB1X05. The lamp is protected by a lens and an optional wire guard. Additional electrical components associated with the operation of the LED beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xB1LD3 (beacon) is the same aluminum housing enclosure as the D2xB1X05. The lamp is protected by a lens and an optional wire guard. Additional electrical components associated with the operation of the LED beacon, are installed within the housing and reflected by the nomenclature with "DC" followed by the voltage.

D2xC2X05 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. Additional electrical components associated with the operation of the 5 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

**See Annex for additional information and see Equipment (continued) section of this CoC.**

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- End user shall adhere to the manufacturer's installation and instruction when performing housekeeping to avoid the potential for hazardous electrostatic charges during cleaning, by using a damp cloth.
- Not to be mounted with the horn facing upwards. Refer to Manufacturer's Instructions.
- The equipment shall only be used in end use with appropriately certified cable entry devices and blanking plugs.

Specific Conditions of Use for D2xB1LD\*\*\*\* and D2xC2LD\*\*\*\*, D2xB1XH1DC024, D2xB1XH2DC024, D2xC2XH1DC024 and D2xC2XH2DC024:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.



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## Equipment (continued):

D2xC2X10 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. Additional electrical components associated with the operation of the 10 Joule beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xC2LD2 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. Additional electrical components associated with the operation of the LED beacon, are installed within the housing and reflected by the nomenclature with "AC or DC" followed by the voltage.

D2xC2LD3 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. Additional electrical components associated with the operation of the LED beacon, are installed within the housing and reflected by the nomenclature with "DC" followed by the voltage.

D2xJ1T (Junction Box) is the same aluminum housing as the D2xB1X05 with the junction box lid replacing the lens assembly lid. The enclosure is provided with a 12 Way Terminal Block. The D2xJ1T is approved as an accessory to the D2x product range.

D2xJ1D (Junction Box) is the same aluminum housing as the D2xB1X05 with the junction box lid replacing the lens assembly lid. The enclosure is provided with a DIN rail for installation for up to 12 AKZ 2.5 terminal blocks, and 4 AKE 2.5 Terminal blocks. The D2xJ1D is approved as an accessory to the D2x product range.

D2xB1XH1DC024 (beacon) is the same aluminum housing enclosure as the D2xB1X05. The lamp is protected by a lens and an optional wire guard. The electronics are similar to that of D2xB1X05DC024, with the addition of a low voltage sub board to control flash rate timing.

D2xB1XH2DC024 (beacon) is the same aluminum housing enclosure as the D2xB1X05. The lamp is protected by a lens and an optional wire guard. The electronics are similar to that of D2xB1X10DC024, with the addition of a low voltage sub board to control flash rate timing.

D2xC2XH1DC024 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. The model utilizes the D2xB1XH1DC024 beacon coupled with D2xS1DC024.

D2xC2XH2DC024 (sounder beacon) is the same aluminum housing as the D2xB1X05, coupled with the D2xS1 aluminum enclosure. Two brass connectors with locknuts secure the two housings together with a neoprene foam seal providing the ingress protection. The model utilizes the D2xB1XH2DC024 beacon coupled with D2xS1DC024.

D2xL\* (Loudspeaker) comprises an aluminium enclosure housing components to generate selectable tones. Up to three M20 threaded entries may be provided for installation of appropriately certified cable entry devices by the end user. D2xL1 incorporates a 15W driver, D2xL2 incorporates a 25W driver.

**Please see Annex for additional information.**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Correction of the Nomenclature voltage detail to include AC or DC0 as applicable.

Correction of the Conditions of Certification to match installation instructions.,

Issue 2: Addition of D2xB1 beacons, D2xC2 sounder beacon combinations and D2xJ1 Junction boxes.

Issue 3: Adds new models and sub board assembly.

Issue 4: Adds two new models (new LED driver boards), D2XB1LD3-DC024 and D2XC2LD3-DC024 and updates some of the existing models.

Issue 5: Change of protection concept for all models from "nA" to "ec".

Issue 6: Addition of model D2xL\* Loudspeakers. Addition of model D2xS2 sounders. Update to IEC 60079-31, 3<sup>rd</sup> Edition.

Issue 7: Replacement of scheduled drawings to address typographical correction of D2xL\* label, D2xL\* instructions and D2xS2 instructions. No technical changes made.

## **Annex:**

[Annex to IECEx ULD 14.0004X Issue 7.pdf](#)



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## TYPE DESIGNATION

Nomenclature

### **Sounder:**

Example – D2xS1DC024A1R

Model	Model Voltage (refer to electrical tables below)	Suffix
D2xS1 (low power)	AC115	Up to 4 alpha numeric characters, not associated with equipment certification
	AC230	
	DC024	
	DC048	
D2xS2F and D2xS2H (medium and high power, F and H denote the size of the horn which is a mechanical part outside of the type of protection)	AC230	-A – Normal type. Up to 4 alpha numeric characters, not associated with equipment certification
	DC024	-A – Normal type. -S – SIL type. Up to 4 alpha numeric characters, not associated with equipment certification

### **Combined sounder beacon:**

Example – D2xC1X05DC024AR/C

Model	Beacon energy (Joules)	Model Voltage (refer to electrical tables below)	Suffix
D2xC1X (low power)	05, 10	AC115	Up to 4 alpha numeric characters, not associated with equipment certification
		AC230	
		DC024	
		DC048	
D2xC2X (medium and high power)	05, 10	DC024	
		DC048	
		AC115	
		AC230	
D2xC2LD2 (LED beacon)	-	DC024	
		DC048	
		AC115	
		AC230	
D2xC2LD3 (LED beacon)	-	DC024	
D2xC2XH1 (xenon beacon)	-	DC024	
D2xC2XH2 (xenon beacon)	-	DC024	



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## Beacon:

Example – D2xB1X05DC024

Model	Beacon energy (Joules)	Model Voltage (refer to electrical tables below)	Suffix
D2xB1X	05, 10	DC024	Up to 4 alpha numeric characters, not associated with equipment certification
		DC048	
		AC115	
		AC230	
D2xB1LD2 (LED beacon)	-	DC024	
	-	AC115	
	-	AC230	
D2xB1LD3 (LED beacon)	-	DC024	
D2xB1XH1 (xenon beacon)	-	DC024	
D2xB1XH2 (xenon beacon)	-	DC024	

## Junction Box:

Example – D2xJ1T

Model	Model Voltage (refer to electrical tables below)
D2xJ1T	54Vdc/230Vac 50/60Hz Max, 10A Max
D2xJ1D	

## Loudspeaker:

Example – D2xL1FV100

Model	
D2xL1FV725	15W, 25V to 70V loudspeaker, small horn
D2xL2FV725	25W, loudspeaker, large horn
D2xL2HV725	25W, loudspeaker, extra large horn
D2xL1FV100	15W, 100V loudspeaker, small horn
D2xL2FV100	25W, 100V loudspeaker, large horn
D2xL2HV100	25W, 100V loudspeaker, extra large horn
D2xL1FR008	15W, 8 ohm resistance loudspeaker, small horn
D2xL1FR016	15W, 16 ohm resistance loudspeaker, small horn
D2xL2FR008	25W, 8 ohm resistance loudspeaker, large horn
D2xL2FR016	25W, 16 ohm resistance loudspeaker, large horn
D2xL2HR008	25W, 8 ohm resistance loudspeaker, extra large horn
D2xL2HR016	25W, 16 ohm resistance loudspeaker, extra large horn



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## Electrical Ratings:

Model	Electrical Ratings			
	DC	AC	Hz	Max. Amps, mA, (W)
D2xS1DC024	10-30	-	-	313 mA
D2xS1DC048	38-58	-	-	218 mA
D2xS1AC115	-	103.5-126.5	60	91 mA
D2xS1AC230	-	207-253	50	72 mA
D2xS2FDC024-A D2xS2HDC024-A	11.5-54	-	-	12Vdc – P2: 289 mA, P3: 356 mA 24Vdc – P2: 324 mA, P3: 740 mA 48Vdc – P2: 195 mA, P3: 391 mA
D2xS2FDC024-S D2xS2HDC024-S	20-28	-	-	24Vdc – P2: 324 mA, P3: 740 mA
D2xS2FAC230-A D2xS2HAC230-A	-	100-240	50/60	115Vac – P2: 193 mA, P3: 479mA 230Vac – P2: 103 mA, P3: 221mA
D2xC1X05DC024	20-28	-	-	521 mA
D2xC1X05DC048	42-58	-	-	328 mA
D2xC1X05AC115	-	115-125	60	183 mA
D2xC1X05AC230	-	215-250	50	77 mA
D2xC1X10DC024	20-28	-	-	876 mA
D2xC1X10DC048	42-58	-	-	475 mA
D2xC1X10AC115	-	115-125	60	343 mA
D2xC1X10AC230	-	215-250	50	115 mA
D2xB1X05DC024	20-28	-	-	296 mA
D2xB1X05DC048	48	-	-	145 mA
D2xB1X05AC115	-	115-120	50/60	80 mA
D2xB1X05AC230	-	220-230	50/60	30 mA
D2xB1X10DC024	20-28	-	-	609 mA
D2xB1X10DC048	48	-	-	260 mA
D2xB1X10AC115	-	115-120	50/60	185 mA
D2xB1X10AC230	-	220-230	50/60	107 mA
D2xB1LD2DC024	18-54	-	-	346 mA
D2xB1LD2AC115	-	115-120	50/60	102.4 mA
D2xB1LD2AC230	-	220-230	50/60	75 mA
D2xB1LD3DC024	16-33	-	-	528 mA
D2xC2X05DC024	20-28	-	-	296+313 mA
D2xC2X05DC048	48	-	-	145+218 mA
D2xC2X05AC115	-	115-120	50/60	80+91 mA
D2xC2X05AC230	-	220-230	50/60	30+72 mA
D2xC2X10DC024	20-28	-	-	609+313 mA
D2xC2X10DC048	48	-	-	260+218 mA
D2xC2X10AC115	-	115-120	50/60	185+91 mA
D2xC2X10AC230	-	220-230	50/60	107+72 mA
D2xC2LD2DC024	24	-	-	346+313 mA
D2xC2LD2DC048	48	-	-	115+218 mA
D2xC2LD2AC115	-	115-120	50/60	102.4+91 mA
D2xC2LD2AC230	-	220-230	50/60	75+72 mA
D2xC2LD3DC024	16-33	-	-	528+250 mA
D2xJ1T	54 Max	230 Max	50/60	10A
D2xJ1D	54 Max	230 Max	50/60	10A
D2xB1XH1DC024	20-28	-	-	296 mA





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Model	Electrical Ratings			
	DC	AC	Hz	Max. Amps, mA, (W)
D2xB1XH2DC024	20-28	-	-	609 mA
D2xC2XH1DC024	20-28	-	-	449 mA
D2xC2XH2DC024	20-28	-	-	785 mA
D2xL1FV725	-	25 / 70	signal	15 W
D2xL2FV725	-	25 / 70	signal	25 W
D2xL2HV725	-	25 / 70	signal	25 W
D2xL1FV100	-	100	signal	15 W
D2xL2FV100	-	100	signal	25 W
D2xL2HV100	-	100	signal	25 W
D2xL1FR008	-	10.95V Max	signal	15 W
D2xL1FR016	-	15.49V Max	signal	15 W
D2xL2FR008	-	10.95V Max	signal	25 W
D2xL2FR016	-	15.49V Max	signal	25 W
D2xL2HR008	-	10.95V Max	signal	25 W
D2xL2HR016	-	15.49V Max	signal	25 W

### Temperature range and class for each Model Series:

Model	Type of protection	Temperature Class	Associated Ambient Temperature range
D2XS1	Ex ec IIC	T4	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T90°C	-40°C ≤ Tamb ≤ +50°C
D2xSF2DC024-A D2xSH2DC024-A D2xS2FDC024-S D2xS2HDC024-S	Ex ec IIC	T3	-55°C ≤ Tamb ≤ +75°C
	Ex ec IIC	T4	-55°C ≤ Tamb ≤ +55°C
	Ex tc IIIC	T95°C	-55°C ≤ Tamb ≤ +75°C
D2xS2FAC230-A D2xS2HAC230-A	Ex ec IIC	T4	-55°C ≤ Tamb ≤ +75°C
	Ex ec IIC	T5	-55°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T93°C	-55°C ≤ Tamb ≤ +75°C
D2XC1X05	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T90°C	-40°C ≤ Tamb ≤ +50°C
D2XC1X10	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex ec IIC	T1	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T110°C	-40°C ≤ Tamb ≤ +50°C
D2xB1LD2	Ex ec IIC	T4	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xB1LD3	Ex ec IIC	T4	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X05DC024	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T80°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X05DC048 D2xB1X05AC115 D2xB1X05AC230	Ex ec IIC	T3	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C



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Model	Type of protection	Temperature Class	Associated Ambient Temperature range
D2xB1X10DC024	Ex ec IIC	T1	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T105°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X10DC048 D2xB1X10AC115 D2xB1X10AC230	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X05DC024	Ex ec IIC	T3	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X05DC048 D2xC2X05AC115 D2xC2X05AC230	Ex ec IIC	T3	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X10DC024	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T85°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X10DC048 D2xC2X10AC115 D2xC2X10AC230	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2LD2	Ex ec IIC	T4	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2LD3	Ex ec IIC	T4	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xJ1T	Ex ec IIC	T6	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T55°C	-40°C ≤ Tamb ≤ +50°C
D2xJ1D	Ex ec IIC	T6	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T55°C	-40°C ≤ Tamb ≤ +50°C
D2xB1XH1DC024	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T80°C	-40°C ≤ Tamb ≤ +50°C
D2xB1XH2DC024	Ex ec IIC	T1	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T105°C	-40°C ≤ Tamb ≤ +50°C
D2xC2XH1DC024	Ex ec IIC	T3	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2XH2DC024	Ex ec IIC	T2	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T85°C	-40°C ≤ Tamb ≤ +50°C
D2xL1	Ex ec IIC	T3	-55°C ≤ Tamb ≤ +75°C
		T4	-55°C ≤ Tamb ≤ +50°C
D2xL2	Ex tc IIC	T109°C	-55°C ≤ Tamb ≤ +75°C
	Ex ec IIC	T3	-55°C ≤ Tamb ≤ +75°C
Ex tc IIC		T119°C	-55°C ≤ Tamb ≤ +75°C



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## MARKING

Marking has to be readable and indelible; it has to include the following indications:

Note: Label 1 & 2 are both applied to the appropriate equipment incorporating relevant protection concept information, warning and cautionary markings.

D2xS1 Product label 1	D2xS1 Product label 2																														
<p><b>D2xS1DC024A1R</b> Alarm Horn</p> <p>Voltage: 10-30VDC Nominal Current: 250mA Max Current: 313mA @ 24VDC</p> <p> II 3G II 3D</p> <p>Ex ec IIC T4 Gc Ta -40°C to +50°C Ex tc IIIC T90°C Dc Ta -40°C to +50°C</p> <p>Canada Ex ec IIC T4A Gc X Ta -40°C to +50°C Ex tc IIIC T90°C Dc Ta -40°C to +50°C Class II Division 2 EFG T5 Ta -40°C to +50°C</p> <p>2 x cable entries M20 x 1.5mm. Use heat resistant cables and glands (rated 90°C)</p> <p>IP66 DEMKO 14ATEX4786493904X  Type 4 / 4X / 13 / 3R IECEX ULD14.0004X Year / Serial No. 14/01D1200001</p> <p>Impress House, Mansell Rd, London UK W3 7QH www.e2s.com</p>	<p><b>D2xS1 ALARM HORN</b></p> <p>USA / Canada</p> <table border="0"> <tr><td>Class I Division 2</td><td>ABCD</td><td>T3C</td><td>Ta -40°C to +70°C</td></tr> <tr><td>Class I Division 2</td><td>ABCD</td><td>T4</td><td>Ta -40°C to +65°C</td></tr> <tr><td>Class I Division 2</td><td>ABCD</td><td>T4A</td><td>Ta -40°C to +50°C</td></tr> <tr><td>Class II Division 2</td><td>FG</td><td>T5</td><td>Ta -40°C to +50°C</td></tr> <tr><td>Class II Division 2</td><td>FG</td><td>T6</td><td>Ta -40°C to +45°C</td></tr> <tr><td>Class III Division 1 &amp; 2</td><td></td><td></td><td>Ta -40°C to +50°C</td></tr> </table> <p>USA</p> <table border="0"> <tr><td>Class I Zone 2</td><td>AEx ec IIC T4 Gc</td><td>Ta -40°C to +50°C</td></tr> <tr><td>Zone 22</td><td>AEx tc IIIC T90°C Dc</td><td>Ta -40°C to +50°C</td></tr> </table> <p>WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH </p> <p>WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT</p> <p>AVERTISSEMENT - NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE</p> <p>AVERTISSEMENT - DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE</p> <p>Audible Signalling Appliance For Use In Hazardous Locations</p>	Class I Division 2	ABCD	T3C	Ta -40°C to +70°C	Class I Division 2	ABCD	T4	Ta -40°C to +65°C	Class I Division 2	ABCD	T4A	Ta -40°C to +50°C	Class II Division 2	FG	T5	Ta -40°C to +50°C	Class II Division 2	FG	T6	Ta -40°C to +45°C	Class III Division 1 & 2			Ta -40°C to +50°C	Class I Zone 2	AEx ec IIC T4 Gc	Ta -40°C to +50°C	Zone 22	AEx tc IIIC T90°C Dc	Ta -40°C to +50°C
Class I Division 2	ABCD	T3C	Ta -40°C to +70°C																												
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Zone 22	AEx tc IIIC T90°C Dc	Ta -40°C to +50°C																													

D2xS2 Product label 1	D2xS2 Product label 2
<p><b>D2xS2FDC024</b> Alarm Horn</p> <p>Nominal Voltage: 12/24/48Vdc Nominal Current: P2: 289/324/195mA Nominal Current: P3: 356/740/391mA Voltage: 11,5-54VDC</p> <p> II 3G II 3D</p> <p>ATEX / IECEX / UKEx</p> <p>Ex ec IIC T3 Gc Ta -55°C to +75°C Ex ec IIC T4 Gc Ta -55°C to +55°C Ex tc IIIC T95°C Dc Ta -55°C to +75°C</p> <p>2 x cable entries M20 x 1,5mm / Single 1/2" NPT Use heat resistant cables and glands (rated 90°C)</p> <p>IP66 DEMKO 14ATEX4786493904X  Type 4 / 4X / 13 / 3R IECEX ULD14,0004X  Year / Serial No. 23/01D2200001 UL21UKEX2131X</p> <p>Impress House, Mansell Rd, London UK W3 7QH www.e2s.com</p>	<p><b>D2xS2FDC024 ALARM HORN</b></p> <p>WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH</p> <p>WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT</p> <p>AVERTISSEMENT - NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE</p> <p>AVERTISSEMENT - DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE</p> <p>Audible Signalling Appliance For Use In Hazardous Locations</p>



# IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 14.0004X

Issue No.:7

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### D2xB1 Product label 1

**D2xB1X05DC024**

Voltage: **24VDC** Max Current: **296mA** Range: **20-28VDC** **MMYY**

Regulated

For detailed current & light output ratings, see instructions **D211-00-251-IS-SC**

Cable entries: 2-off M20 x 1.5mm, 2-off 1/2" NPT & 1-off 3/8" NPT;

IP66 DEMKO 14 ATEX 4786493904X **CE**

Type 4 / 4X / 3R / 13 IECEX ULD 14.0004X

Year / Serial No. **17/1DH22XXXXXX**

Impress House, Mansell Rd, London UK W3 7QH

### D2xB1 Product label 3

**ATEX / IECEX**

**Ex** II 3G Ex ec IIC T2 Gc Ta -40°C to +50°C

II 3D Ex tc IIIC 80°C Dc Ta -40°C to +50°C

**e2S** warning signals

NEC / CEC Class / Div

Class I Division 2 ABCD T2D Ta -40°C to +50°C

Class I Division 2 ABCD T3 Ta -40°C to +45°C

Class II Division 2 FG T6 Ta -40°C to +50°C

Class III Div 1 & 2 Ta -40°C to +50°C

Use Heat Resistant Cables and Glands (rated 85°C)

### D2xC1X05 Product label 1

**D2xC1X05DC024A1R/C**

**ALARM HORN/STROBE**

**Ex** II 3G Voltage: 20-28VDC **e2S** warning signals

II 3D Nominal Current: 513mA **MMYY**

Max Current: 521mA @ 20VDC

Ex ec IIC T2 Gc Ta -40°C to +50°C

Ex tc IIIC T90°C Dc Ta -40°C to +50°C

Canada

Ex ec IIC T2B Gc X Ta -40°C to +50°C

Ex ec IIC T2C Gc X Ta -40°C to +45°C

Ex tc IIIC T120°C Dc Ta -40°C to +50°C

Class II Division 2 EFG T4A Ta -40°C to +50°C

2 x cable entries M20 x 1.5mm.

Use heat resistant cables and glands (rated 90°C)

IP66 DEMKO 14ATEX4786493904X **CE**

Type 4 / 4X / 13 / 3R IECEX ULD14.0004X

Year / Serial No. 14/01D5200001

Impress House, Mansell Rd, London UK W3 7QH www.e2s.com

### D2xC1X05 Product label 2

**D2xC1X05 ALARM HORN/STROBE**

USA / Canada

Class I Division 2 ABCD T2B Ta -40°C to +70°C

Class I Division 2 ABCD T2C Ta -40°C to +50°C

Class I Division 2 ABCD T2D Ta -40°C to +40°C

Class II Division 2 FG T5 Ta -40°C to +50°C

Class III Division 1 & 2 Ta -40°C to +50°C

USA

Class I Zone 2 AEx ec IIC T2 Gc Ta -40°C to +50°C

Zone 22 AEx tc IIIC T120°C Dc Ta -40°C to +50°C

WARNING - POTENTIAL ELECTROSTATIC CHARGING

HAZARD - CLEAN ONLY WITH A DAMP CLOTH

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE

ATMOSPHERE IS PRESENT

AVERTISSEMENT - NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE

AVERTISSEMENT - DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE

Audible & Visual Signalling Appliance For

Use In Hazardous Locations

Not To Be Used As A Visual Public Mode Alarm Notification Appliance

**UL** CERTIFIED E230764

### D2xC1X10 Product label 1

**D2xC1X10DC024R/C**

**ALARM HORN/STROBE**

**Ex** II 3G Voltage: 20-28VDC **e2S** warning signals

II 3D Nominal Current: 876mA **MMYY**

Max Current: 876mA @ 20VDC

Ex ec IIC T1 Gc Ta -40°C to +50°C

Ex ec IIC T2 Gc Ta -40°C to +40°C

Ex tc IIIC T110°C Dc Ta -40°C to +50°C

Canada

Ex ec IIC T1 Gc X Ta -40°C to +50°C

Ex ec IIC T2 Gc X Ta -40°C to +40°C

Ex tc IIIC T120°C Dc Ta -40°C to +50°C

Class II Division 2 EFG T4A Ta -40°C to +50°C

2 x cable entries M20 x 1.5mm.

Use heat resistant cables and glands (rated 90°C)

IP66 DEMKO 14ATEX4786493904X **CE**

Type 4 / 4X / 13 / 3R IECEX ULD14.0004X

Year / Serial No. 14/01D6200001

Impress House, Mansell Rd, London UK W3 7QH www.e2s.com

### D2xC1X10 Product label 2

**D2xC1X10 ALARM HORN/STROBE**

USA / Canada

Class I Division 2 ABCD T1 Ta -40°C to +70°C

Class I Division 2 ABCD T2 Ta -40°C to +50°C

Class II Division 2 FG T4A Ta -40°C to +50°C

Class II Division 2 FG T5 Ta -40°C to +40°C

Class III Division 1 & 2 Ta -40°C to +50°C

USA

Class I Zone 2 AEx ec IIC T1 Gc Ta -40°C to +50°C

Class I Zone 2 AEx ec IIC T2 Gc Ta -40°C to +40°C

Zone 22 AEx tc IIIC T120°C Dc Ta -40°C to +50°C

WARNING - POTENTIAL ELECTROSTATIC CHARGING

HAZARD - CLEAN ONLY WITH A DAMP CLOTH

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE

ATMOSPHERE IS PRESENT

AVERTISSEMENT - NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE

AVERTISSEMENT - DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE

Audible & Visual Signalling Appliance For

Use In Hazardous Locations

Not To Be Used As A Visual Public Mode Alarm Notification Appliance

**UL** CERTIFIED E230764








# IECEX Certificate of Conformity



Annex to Certificate No.:

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D2xL Product label 1	D2xL Product label 2
<p>D2XL1FV725 70 / 25V Loudspeaker 15W</p> <p>Input: 70 / 25V Line Power: 15W Max I/P Voltage: 70.7 / 25VDC</p> <p> II 3G II 3D</p> <p>ATEX / IECEX / UKEx Ex ec IIC T3 Gc Ta -55°C to +75°C Ex ec IIC T4 Gc Ta -55°C to +50°C Ex tc IIIC T109°C Dc Ta -55°C to +75°C</p> <p>2 x cable entries M20 x 1.5mm / Single 1/2" NPT Use heat resistant cables and glands (rated 90°C)</p> <p>IP66</p> <p>Year / Serial No. 23/1D3500001</p> <p>Impress House, Mansell Rd, London UK W3 7QH www.e2s.com</p>    	<p>D2XL2FV725 70 / 25V Loudspeaker 15W</p> <p>WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT AVERTISSEMENT - NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE AVERTISSEMENT - DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE Audible Signalling Appliance For Use In Hazardous Locations</p>

D2x Warning label (all xenon units)	D2x Warning label (all LED units)
<p><b>WARNING:</b> DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT DO NOT OPEN WHEN ENERGISED POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH HIGH VOLTAGE SHOCK HAZARD. WAIT 5 MINUTES AFTER REMOVING POWER BEFORE OPENING THE ENCLOSURE DO NOT PAINT </p> <p><b>AVERTISSEMENT:</b> NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE NE PAS OUVRIR ENERGIE DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE HAUT TENSION, RISK DE CHOC. ATTENDEZ 5 MINUTES APRES AVOIR DEBRANCHE L'ALIMENTATION AVANT D'OUVRIR LA BOITIER NE PAS PEINTURER</p>	<p><b>WARNING:</b> DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT DO NOT OPEN WHEN ENERGISED POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH DO NOT PAINT </p> <p><b>AVERTISSEMENT:</b> NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE NE PAS OUVRIR ENERGIE DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE NE PAS PEINTURER</p>

## ROUTINE EXAMINATIONS AND TESTS

The xenon lamp assembly shall be routinely dielectrically strength tested. Tests shall be performed as described in IEC 60079-7, clause 6.1, at 1200Vac for a minimum of 1 second.

All models shall be routinely dielectrically strength tested. The tests shall be performed as described in IEC 60079-7, clause 6.1, at 1200Vac for a minimum of 1 second.