



[1] **UNITED KINGDOM CONFORMITY ASSESSMENT**  
**TYPE EXAMINATION CERTIFICATE**

[2] **Product or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended by UKSI 2019:696)**

[3] Type Examination Certificate No.: **UL21UKEX2131X Rev. 2**

[4] Product: **D2xS1\* (Sounder), D2xS2\* (Sounder), D2xL1 (Loudspeaker), D2xL2 (Loudspeaker), D2xC1\* (Sounder Beacon), D2xB1\* (Beacon), D2xC2\* (Sounder Beacon), D2xJ1\* (Junction box), and D2xH1-E (Heat Detector)**

[5] Manufacturer: **European Safety Systems Limited**

[6] Address: **Impress House, Mansell Road, Acton, London W3 7QH United Kingdom**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential report **DK/ULD/ExTR14.0009/08**.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


**EN IEC 60079-0:2018      EN 60079-1:2014      EN IEC 60079-7:2015/A1:2018**  
**EN 60079-31:2014      IEC 60079-31, Edition 3.0 (2022-01)**

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the Schedule to this certificate.

[11] This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 3 G    Ex ec IIC T6...T1 Gc** (D2xS1\*, D2xS2\*, D2xL1, D2xL2, D2xC1\*, D2xB1\*, D2xC2\* and D2xJ1\*)

 **II 3 G    Ex db ec IIC T6 Gc** (D2xH1-E only)

 **II 3 D    Ex tc IIIC T55...T110°C Dc**

**Certification Officer**  
**Andrew Moffat**

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2022-04-05

**Re-issued:** 2024-05-31

UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK  
 Phone : +44 (0)1256 312100

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[15] Description of Product

D2xS1 (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 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 aluminium 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 aluminium 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 aluminium 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 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 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 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 LED beacon, are installed within the housing and reflected by the nomenclature with "DC" followed by the voltage.

D2xC2X05 (sounder beacon) is the same aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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.

D2xC2X10 (sounder beacon) is the same aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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 aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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 aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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 aluminium 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 aluminium 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 aluminium 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 aluminium 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.

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D2xC2XH1DC024 (sounder beacon) is the same aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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 aluminium housing as the D2xB1X05, coupled with the D2xS1 aluminium 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.

D2xH1-E (Heat detector) utilises D2xJ1 junction box and is fitted with heat detector probe, installed in one of the threaded entries and may be fitted with optional indicator LED module (except for Ex ec models).

### 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	
D2xC2LD2 (LED beacon)	-	AC230	
		DC024	
		DC048	
D2xC2LD3 (LED beacon)	-	AC115	
D2xC2LD3 (LED beacon)	-	AC230	
D2xC2LD3 (LED beacon)	-	DC024	
D2xC2XH1 (xenon beacon)	-	DC024	
D2xC2XH2 (xenon beacon)	-	DC024	

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**Junction Box:**

Example – D2xJ1T

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

**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	

**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

**Heat Detector:**

Model	Model
D2xH1-	E = Ex db ec / Ex tc heat detector

The optical radiation output of the product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended by UKSI 2019:696) is not covered in this certificate.

The optical radiation output of the LED indicator included in this product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended by UKSI 2019:696) is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

**Temperature range:**

Equipment Group	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D2xS1	Ex ec IIC	T4 (<135°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T90°C	-40°C ≤ Tamb ≤ +50°C
D2xSF2DC024-A D2xSH2DC024-A	Ex ec IIC	T3	-55°C ≤ Tamb ≤ +75°C
	Ex ec IIC	T4	-55°C ≤ Tamb ≤ +55°C
D2xS2FDC024-S D2xS2HDC024-S	Ex tc IIIC	T95°C	-55°C ≤ Tamb ≤ +75°C
	Ex ec IIC	T4	-55°C ≤ Tamb ≤ +75°C

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Equipment Group	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D2xS2HAC230-A	Ex ec IIC	T5	-55°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T93°C	-55°C ≤ Tamb ≤ +75°C
D2xC1X05	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T90°C	-40°C ≤ Tamb ≤ +50°C
D2xC1X10	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex ec IIC	T1 (<450°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T110°C	-40°C ≤ Tamb ≤ +50°C
D2xB1LD2	Ex ec IIC	T4 (<135°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xB1LD3	Ex ec IIC	T4 (<135°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X05DC024	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T80°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X05DC048 D2xB1X05AC115 D2xB1X05AC230	Ex ec IIC	T3 (<200°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X10DC024	Ex ec IIC	T1 (<450°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T105°C	-40°C ≤ Tamb ≤ +50°C
D2xB1X10DC048 D2xB1X10AC115 D2xB1X10AC230	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X05DC024	Ex ec IIC	T3 (<200°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X05DC048 D2xC2X05AC115 D2xC2X05AC230	Ex ec IIC	T3 (<200°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X10DC024	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T85°C	-40°C ≤ Tamb ≤ +50°C
D2xC2X10DC048 D2xC2X10AC115 D2xC2X10AC230	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T95°C	-40°C ≤ Tamb ≤ +50°C
D2xC2LD2	Ex ec IIC	T4 (<135°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2LD3	Ex ec IIC	T4 (<135°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xJ1T	Ex ec IIC	T6 (<85°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T55°C	-40°C ≤ Tamb ≤ +50°C
D2xJ1D	Ex ec IIC	T6 (<85°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T55°C	-40°C ≤ Tamb ≤ +50°C
D2xB1XH1	Ex ec IIC	T2 (<300°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T80°C	-40°C ≤ Tamb ≤ +50°C
D2xB1XH2	Ex ec IIC	T1 (<450°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T105°C	-40°C ≤ Tamb ≤ +50°C
D2xC2XH1	Ex ec IIC	T3 (<200°C)	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIIC	T75°C	-40°C ≤ Tamb ≤ +50°C
D2xC2XH2	Ex ec IIC	T2 (<300°C)	-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
	Ex ec IIC	T4	-55°C ≤ Tamb ≤ +75°C
	Ex tc IIC	T109°C	-55°C ≤ Tamb ≤ +75°C
D2xL2	Ex ec IIC	T3	-55°C ≤ Tamb ≤ +75°C
	Ex tc IIC	T119°C	-55°C ≤ Tamb ≤ +75°C
D2xH1-E	Ex db ec IIC	T6	-40°C ≤ Tamb ≤ +50°C
	Ex tc IIC	T55°C	-40°C ≤ Tamb ≤ +50°C

#### Electrical data

Model	Electrical Ratings			
	DC	AC	Hz	Max. Amps, mA, (W)
D2xS1DC024	10-30	-	-	313
D2xS1DC048	38-58	-	-	218
D2xS1AC115	-	103.5-126.5	60	91
D2xS1AC230	-	207-253	50	72
D2xS2FDC024-A D2xS2HDC024-A	11.5-54	-	-	12Vdc – 221mA 24Vdc – 185mA 48Vdc – 115mA
D2xS2FDC024-S	20-28	-	-	24Vdc – 185mA

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Model	Electrical Ratings			
	DC	AC	Hz	Max. Amps, mA, (W)
D2xS2HDC024-S				
D2xS2FAC230-A	-	100-240	50/60	115Vac – 73mA
D2xS2HAC230-A				230Vac – 48mA
D2xC1X05DC024	20-28	-	-	521
D2xC1X05DC048	42-58	-	-	328
D2xC1X05AC115	-	115-125	60	183
D2xC1X05AC230	-	215-250	50	77
D2xC1X10DC024	20-28	-	-	876
D2xC1X10DC048	42-58	-	-	475
D2xC1X10AC115	-	115-125	60	343
D2xC1X10AC230	-	215-250	50	115
D2xB1X05DC024	20-28	-	-	296
D2xB1X05DC048	48	-	-	145
D2xB1X05AC115	-	115-120	50/60	80
D2xB1X05AC230	-	220-230	50/60	30
D2xB1X10DC024	20-28	-	-	609
D2xB1X10DC048	48	-	-	260
D2xB1X10AC115	-	115-120	50/60	185
D2xB1X10AC230	-	220-230	50/60	107
D2xB1LD2DC024	18-54	-	-	346
D2xB1LD2AC115	-	115-120	50/60	102.4
D2xB1LD2AC230	-	220-230	50/60	75
D2xB1LD3DC024	16-33	-	-	528
D2xC2X05DC024	20-28	-	-	296+313
D2xC2X05DC048	48	-	-	145+218
D2xC2X05AC115	-	115-120	50/60	80+91
D2xC2X05AC230	-	220-230	50/60	30+72
D2xC2X10DC024	20-28	-	-	609+313
D2xC2X10DC048	48	-	-	260+218
D2xC2X10AC115	-	115-120	50/60	185+91
D2xC2X10AC230	-	220-230	50/60	107+72
D2xC2LD2DC024	24	-	-	346+313
D2xC2LD2DC048	48	-	-	115+218
D2xC2LD2AC115	-	115-120	50/60	102.4+91
D2xC2LD2AC230	-	220-230	50/60	75+72
D2xC2LD3DC024	16-33	-	-	528+250
D2xJ1T	54 Max	230 Max	50/60	10A Max
D2xJ1D	54 Max	230 Max	50/60	10A Max
D2xB1XH1DC024	20-28	-	-	296
D2xB1XH2DC024	20-28	-	-	609
D2xC2XH1DC024	20-28	-	-	449
D2xC2XH2DC024	20-28	-	-	785
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

**Electrical Ratings Heat Detector:**

Model	Voltage	Current	Power
D2xH1-E	32Vac, 50/60Hz	5.0A	1.25 W, max
	32Vdc	1A	
	24Vdc	2A	

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### Routine tests

- The xenon lamp assembly shall be routinely dielectrically strength tested. Tests shall be performed as described in EN 60079-7 clause 6.1 for a minimum of 1 second.
- All models shall be routinely dielectrically strength tested. The tests shall be performed as described in EN/IEC 60079-7, clause 6.1, at 1200Vac for a minimum of 1 second.
- Heat Detector probe integrity of welds are to be verified by one of the inspection methods in accordance with Clause 16.3 of IEC 60079-1, 7th Edition.
- All D2xH1-E shall be routinely dielectrically strength tested between live/neutral and earth/enclosure. The tests shall be performed as described in IEC 60079-7, clause 6.1, at 500V rms for at least 1 minute (or 600V rms for at least 100 ms).

[16]

### Test Report No. (associated with this certificate issue)

The test report no. is provided under item no. [ 8 ] on page 1 of this Type Examination Certificate.

[17]

### Specific conditions of use:

- 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 EN 60664-1.

Specific to D2xH1-E:

- End of line monitoring diode or an end of line monitoring resistor can be connected across the +ve and –ve terminals. These must maintain creepage and clearance distances to bare conductive parts at different potentials, of at least 1.8mm.

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### Conditions of certification:

None

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### Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

### Additional information

The D2xC1 sounder beacon, D2xB1 Beacon, D2xC2 sounder beacon, D2xJ1 Junction Box and D2xS1 sounder has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.



The trademark  warning signals will be used as the company identifier on the marking label.

The manufacturer shall inform the certificate issuer concerning all modifications to the technical documentation as described in Section [20] Drawings and Documents of this document.



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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
D2xC1 Sounder / Beacon General Arrangement drawing.	D189-00-501-SC	E	2015-01-28
D2xS1 Sounder General Arrangement drawing.	D189-00-001-SC	E	2015-01-27
Bare Board Layout D2xS1 Sounder Supply DC.	D189-20-001-SC	B	2014-10-07
Bare Board Layout D2xS1 Sounder Supply AC.	D189-21-051-SC	B	2014-10-07
PCB Bare Board Layout D2xS1 Sounder Control.	D189-22-001-SC	B	2014-10-07
PCB Bare Board Layout D2xC1 Beacon AC.	D189-21-551-SC	B	2014-10-07
PCB Bare Board Layout D2xC1 Beacon DC.	D189-20-501-SC	B	2014-10-07
D2x5J & D2x10J 24V and 48V DC Beacon Circuit Diagram.	D189-25-501-CD-SC	B	2013-07-22
D2x5J & D2x10J 115V and 230V AC Beacon Circuit Diagram.	D189-36-551-CD-SC	C	2014-07-17
D2x 24V/48V DC and 115/230 AC Sounder Control Circuit Diagram.	D189-26-001-CD-SC	B	2014-07-17
D2x 24V & 48V DC Sounder Supply Circuit Diagram.	D189-26-061-CD-SC	C	2014-07-17
D2x 115V & 230V AC Sounder Supply Circuit Diagram.	D189-36-051-CD-SC	B	2014-07-17
D2xS1 24V DC/115V AC/230V AC Sounder Control (BOM)	D189-26-001-CL-SC	D	2014-01-14
D2xS1 48V DC Sounder Control (BOM)	D189-27-001-CL-SC	D	2014-01-14
D2xS1 24V DC Supply Board (BOM)	D189-26-061-CL-SC	E	2014-10-13
D2xS1 48V DC Supply Board (BOM)	D189-27-061-CL-SC	E	2014-10-13
D2xS1 115V AC Supply - Sounder (BOM)	D189-36-051-CL-SC	D	2014-10-13
D2xS1 230V AC Supply - Sounder (BOM)	D189-37-051-CL-SC	D	2014-10-13
D2x5J 24Vdc Beacon PCBA (BOM)	D189-26-501-CL-SC	E	2014-11-19
D2x10J 24Vdc Beacon PCBA (BOM)	D189-26-601-CL-SC	E	2014-11-19
D2x5J 48Vdc Beacon PCBA (BOM)	D189-27-501-CL-SC	E	2014-11-19
D2x10J 48Vdc Beacon PCBA (BOM)	D189-27-601-CL-SC	E	2014-11-19
D2x5J 115V AC Beacon (BOM)	D189-36-551-CL-SC	E	2014-11-19
D2x10J 115V AC Beacon (BOM)	D189-36-651-CL-SC	E	2014-11-19
D2x5J 230V AC Beacon (BOM)	D189-37-551-CL-SC	E	2014-11-19
D2x10J 230V AC Beacon (BOM)	D189-37-651-CL-SC	E	2014-11-19
Prismatic Flash Dome	D24106	A	2009-07-03
BExBG Beacon Glass Dome Guard	D2489	B	2002-01-04
Pressure unit 8 & 16 Ohm	D189-80-001-SC	B	2015-01-27
D2x Beacon board to housing clearance	D189-95-001-SC	A	2014-10-08
E2x Flash tube module Assembly Instructions	D4205	A	2003-10-16
D2x Beacon Scheduled Drawing	D211-00-001-SC	F	2019-10-22
D2x Beacon Scheduled Drawing (B1XH1DC024, B1XH2DC024, B1LD2DC024 and B1LD3DC024 only)	D211-00-251-SC	C	2019-10-21
D2x Combine Sounder/Beacon Scheduled Drawing	D211-00-601-SC	D	2019-10-28
D2x Combine Sounder/Beacon Scheduled Drawing (C2XH1DC024, C2XH2DC024, C2LD2DC024 and C2LD3DC024 only)	D211-00-651-SC	C	2019-10-28
D2x Junction Box Scheduled Drawing	D211-00-501-SC	B	2017-04-18
PCB Bare Board Layout E2x / D2x Beacon DC	D209-20-201-SC	C	2019-11-01
PCB Bare Board Layout E2x / D2x Beacon AC	D209-21-201-SC	C	2019-11-01
E2xB05 & E2xB10 5J & 10J Xenon DC Beacon circuit Diagram	D209-25-201-CD-SC	A	2016-09-13
E2xB05 & E2xB10 5J & 10J Xenon DC Beacon (BOM)	D209-25-201-CL-SC	C	2019-10-31



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E2xB05 & E2xB10 5J & 10J Xenon AC Beacon Circuit Diagram	D209-36-201-CD-SC	A	2016-09-13
E2xB05DC024 5J 24V DC (BOM)	D209-26-201-CL-SC	D	2019-10-31
E2xB05DC048 5J 48V DC (BOM)	D209-27-201-CL-SC	D	2019-10-31
E2xB05AC115 5J 115V AC (BOM)	D209-36-201-CL-SC	D	2019-10-31
E2xB05AC230 5J 230V AC (BOM)	D209-37-201-CL-SC	C	2019-10-31
E2xB10DC024 10J 24V DC (BOM)	D209-26-211-CL-SC	C	2019-10-31
E2xB10DC048 10J 48V DC (BOM)	D209-27-211-CL-SC	C	2019-10-31
E2xB10AC115 10J 115V AC (BOM)	D209-36-211-CL-SC	C	2019-10-31
E2xB10AC230 10J 230V AC (BOM)	D209-37-211-CL-SC	C	2019-10-31
E2x Flash Tube Module Assembly Instructions	D209-15-201-SC	A	2016-11-10
UL PCB Bare Board Layout D2x/E2x LED Tower PCB's	D209-20-401-SC	A	2016-05-09
UL PCB Bare Board Layout D2x/E2x LED Controller Module PCB	D209-20-405-SC	A	2016-05-09
UL PCB Bare Board Layout D2x 24VDC LED Controller Module PCB	D209-20-415-SC	A	2017-03-27
UL PCB Bare Board Layout D2x/E2x LED Power/Input PCB	D209-22-401-SC	B	2017-04-24
E2x LED Beacon Power Supply PCBA	D209-26-401-CD-SC	A	2016-05-18
E2x LED Beacon Controller module PCBA	D209-26-405-CD-SC	A	2016-05-18
D2x LED Beacon DC Controller Module PCBA	D209-26-415-CD-SC	A	2017-02-18
E2x LED DC Power PCBA (BOM)	D209-26-401-CL-SC	D	2019-10-31
D2x/E2x LED Controller Module PCBA (BOM)	D209-26-405-CL-SC	B	2017-03-20
D2x LED DC Controller Module PCBA (BOM)	D209-26-415-CL-SC	C	2017-06-12
E2x LED 115VAC Power PCBA (BOM)	D209-36-401-CL-SC	C	2019-10-31
E2x LED 230VAC Power PCBA (BOM)	D209-37-401-CL-SC	C	2019-10-31
D2xB1 LED PCBA Sub-Assy	D211-15-451-SC	C	2019-10-25
PCB Bare Board Layout D2xB1XH1, XH2 Xenon Beacon DC – UL1971	D211-20-251-SC	A	2017-05-31
UL PCB Bare Board Layout D1x/D2x 24VDC Xenon Controller – UL 1971	D211-20-261-SC	A	2017-05-31
D2x B1XH1, XH2 5J & 10J – UL 1971 24VDC Circuit Diagram	D211-26-251-CD-SC	C	2019-06-21
D2xB1XH2 Xenon 10J 24VDC – UL1971	D211-26-251-CL-SC	C	2019-09-04
D2xB1XH1 Xenon 5J 24VDC – UL1971	D211-26-255-CL-SC	C	2019-09-04
D1x – D2x Beacon Control Board – UL1971	D211-26-261-CL-SC	B	2017-06-15
D2xB1 LD3 PCBA assembly	D219-15-451-SC	B	2019-08-29
D2xB2LD3 Pulse LED Driver PCBA schematics	D219-26-451-CD-SC	B	2019-02-11
D2xB2LD3 Pulse LED Driver PCBA (BoM)	D219-26-451-CL-SC	B	2019-11-18
D2xB2LD3 Pulse LED Tower PCBA (BoM)	D219-28-461-CL-SC	A	2019-01-22
D2xS1 Alarm Horn instructions	D189-00-001-IS-SC-UK	A	2022-03-31
D2xC1X05 / D2xC1X10 Alarm Horn / Strobe instructions	D189-00-501-IS-SC-UK	A	2022-03-31
D2xC1 Sounder/Beacon Product Labels	D189-99-501-SC-UK	A	2022-03-31
D2xS1 UL Scheduled Sounder Product Labels	D189-99-001-SC-UK	A	2022-03-31
Instruction Manual D2xB1X05 & D2xB1X10 Xenon Beacons For use in Hazardous Locations	D211-00-201-IS-SC-UK	A	2022-03-31
Instruction Manual D2xB1LD2 LED Beacons For use in Hazardous Location	D211-00-401-IS-SC-UK	A	2022-03-31
Instruction Manual D2xJ1T & D2xJ1D Junction Box For use in Hazardous Locations	D211-00-501-IS-SC-UK	A	2022-03-31

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Instruction & Service Manual D2xC2 Alarm Horn and Strobe For use in Hazardous Locations	D211-00-601-IS-SC-UK	A	2022-03-31
Instruction & Service Manual D2xC2 Alarm Horn and LED for use in Hazardous Locations	D211-00-611-IS-SC-UK	A	2022-03-31
D2x Scheduled Product Labels	D211-99-001-SC-UK	A	2022-03-31
Instruction Manual D2xB1XH1 & D2xB1XH2 Xenon Beacons for Use in Hazardous Locations	D211-00-251-IS-SC-UK	A	2022-03-31
Instruction & Service Manual D2xC2XH1 & D2xC2XH2 UL1971 Alarm Horn and Xenon Beacon for Use in Hazardous Locations	D211-00-651-IS-SC-UK	A	2022-03-31
Instruction Manual D2xB1LD3 LED Beacons For use in Hazardous Location	D211-00-471-IS-SC-UK	A	2022-03-31
Instruction Manual D2xC2LD3 LED Beacons For use in Hazardous Location	D211-00-671-IS-SC-UK	A	2022-03-31
D2xL1 & D2xL2 Loudspeaker range GA	D252-00-201-SC	A	06/02/2022
D2xL1 & D2xL2 Loudspeaker range Instructions	D252-00-201-IS-SC-ATEX	A	2023-10-12
D1xL1 & D1xL2 line in & low impedance loudspeaker wiring diagrams	D190-06-201	2	08/02/2023
70V line audio matching transformer 25W	D206-80-001-SC	A	09-10-2015
70V line audio matching transformer 15W	D206-80-101-SC	A	09-10-2015
100V line audio matching transformer 25W	D2418	B	04/09/2001
100V line audio matching transformer 15W	D2419	B	04/09/2001
Loudspeaker PCB Layout V100	D243-22-001-SC-UL	A	2023-10-10
Loudspeaker PCB Layout V725	D243-22-101-SC-UL	A	2023-10-10
D1xL Line Transformer 15W 70/25V Line	D243-80-175	1	20/06/2023
D1xL Line Transformer 25W 70/25V Line	D243-80-275	1	20/06/2023
BEXL--D and BEXL--E Low impedance loudspeaker PCB assembly	D2482	A	05/01/2000
D2xL2 70/25V (worst case) minimum clearances pcb to housing	SK0680	A	20/04/2023
D2xL* Label drawing	D252-99-201-SC	A	2023-10-12
D2xS2 DC board schematics – GLOBAL A112N/A121 DC SOUNDER CIRCUIT DIAGRAM	D221-28-001-CD-SC	D	2023-04-28
D2xS2 DC board – COMPONENT LIST	D221-28-001-CL-SC	C	2023-04-21
D2xS2 Power Amp board – GLOBAL A112N/A121 CLASS D POWER AMPLIFIER CIRCUIT DIAGRAM	D221-28-051-CD-SC	B	2020-07-09
D2xS2 Power Amp board – COMPONENT LIST	D221-28-051-CL-SC	C	2023-04-24
D2xS2 AC board schematics – GLOBAL A112N/A121 DC SOUNDER CIRCUIT DIAGRAM	D221-38-001-CD-SC	C	2023-04-25
D2xS2 AC board – COMPONENT LIST	D221-38-001-CL-SC	C	2023-04-19
D2xS2 Terminal board – COMPONENT LIST	D190-26-081-CL	2	2022-05-03
D2xS2 SOUNDER GA SCHEDULED DRAWING	D252-00-001-SC	A	2023-02-15
D2xS2 (WORST CASE) MINIMUM CLEARANCES PCB TO HOUSING	SK0685	A	2023-07-04
D2xS2 Label drawing	D252-99-001-SC	A	2023-09-21
D2xS2 Instructions	D252-00-001-IS-SC	A	2023-09-27
D2x H1-E Ex d e HEAT DETECTOR PRODUCT LABEL ATEX/IECEX/UKEx	D255-99-331-SC	A	2024-04-12
D2xH1-E Ex e HEAT DETECTOR	D255-00-331-SC	A	2024-04-12
Instruction Manual D2xH1-E Heat Detector ATEX / IECEX / UKEx Zone 2, 22	D255-00-331-IS-SC	A	2024-04-12
LED INDICATOR SCHEDULED CONSTRUCTION DRG	D249-00-001-SC	B	2023-03-30