

DL105X Alarm Sounder & Xenon Beacon

The DL105X is a high output, 112dB(A) alarm sounder with integrated 5 Joule Xenon beacon.

Low current consumption and high SPL in a robust IP66 enclosure ensure the DL105X is suitable for all general signalling applications including fire, security and process control. The corrosion proof, marine grade aluminium die cast enclosure is chromated and powder coated providing resilience in the harshest of industrial environments.

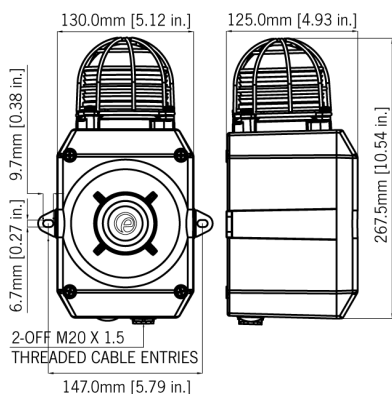
Features

- High output, up to 112dB(A) SPL.
- 3 remotely selectable alarm stages.
- Choice of 32 alarm tone frequencies.
- Automatic synchronisation on multi-sounder system.
- 5 Joule, 200 candela Xenon beacon.
- Continuously rated.
- Stainless steel fixings.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- Stage Programmable 4 stage/channel version available:
 - 45 alarm tones
 - 4 remotely selectable stages
 - Any tone can be assigned to any stage
 - User configurable continuous frequency tone

Approvals

- UL & cULs approved: General signalling use.





Specification

Sounder:

Maximum output: 112dB(A) @ 1 metre [103dB(A) @ 10ft/3m]

Nominal output: 105dB(A) @ 1m +/- 3dB - Tone 2 [96dB(A) @ 10ft/3m]

No. of tones: 32 (UK00A / PFEER compliant)

No. of stages: 3

Volume control: Max. 105dB(A); Min. 96dB(A) - Tone 2

Effective range: 60m/197ft@ 1KHz

Stage switching: Negative
Reverse polarity stage switching on DC units.

Beacon:

Energy: 5 Joules (5Ws)

Flash rate: 1Hz (60 fpm)

Peak Candela: 500,000 cd - calculated from energy (J)

Effective Intensity cd: 250 cd - calculated from energy (J)

Peak Candela: 86,935 cd* - measured ref. to I.E.S.

Effective Intensity cd: 200 cd* - measured ref. to I.E.S.

Lens colours: Amber, Blue, Clear, Green, Red & Yellow

Tube life: Emissions are reduced to 70% after 5 million flashes

General:

Voltages DC: 12V dc; 24V dc; 48V dc
[DC units can use 24V ac for single stage applications.]

Voltages AC: 24V ac; 115V ac; 230V ac

Ingress protection: IP66, Type 4 / 4X / 3R

Enclosure material: Marine grade aluminium A1 Si 12 Cu

Enclosure colour: Red (RAL3000), Grey (RAL7038)

Cable entries: 2 x M20 x 1.5mm threaded gland entries supplied with one stopping plug

Terminals: 0.5 to 1.5mm² cables.

Operating temp: -25 to +55°C [-13° to +131°F]

Storage temp: -40 to +70°C [-40° to +158°F]

Relative humidity: 90% at 20°C [68°F]

Weight: DC: 2.10kg/4.62lbs AC:2.35kg/5.17lbs

*Candela measurements representative of performance with clear lens at optimum voltage.

Part Codes

Version: 12V dc Part code: DL105XDC024[x]/[y]

24V dc DL105XDC024[x]/[y]

48V dc DL105XDC048[x]/[y]

24V ac DL105XAC024[x]/[y]

115V ac DL105XAC115[x]/[y]

230V ac DL105XAC230[x]/[y]

[x] = Enclosure colour: G: Grey R: Red

[y] - Lens colour: A: Amber, B: Blue, C: Clear, G: Green, R: Red, Y: Yellow

Suffix part number with 'P' for stage programmable, 4 stage, 45 tone version (not available with UL approval).

Suffix part number with 'UL' for UL approved version.

Alarm Sounder

Version:	Voltage:	Current:
12V dc	10-30V dc	25mA*
24V dc	10-30V dc	25mA*
48V dc	35-60V dc	50mA*
24V ac	50/60Hz +/-10%	40mA
115V ac	50/60Hz +/-10%	20mA
230V ac	50/60Hz +/-10%	15mA

* current at nominal voltage on Tone

Xenon Beacon

Version:	Voltage:	Current:
12V dc	10-14V dc	380mA
24V dc	20-28V dc	250mA
48V dc	42-54V dc	175mA
24V ac	50/60Hz +/-10%	300mA
115V ac	50/60Hz +/-10%	70mA
230V ac	50/60Hz +/-10%	35mA

Tone table

S 1	Description	S 2	S 3
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5
T 5	2400Hz Continuous	T 3	T 20
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5
T 14	800Hz 0.25sec on, 1 sec off Intermittent	T 4	T 5
T 15	800Hz Continuous	T 2	T 5
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 2	T 27
T 18	660Hz 1.8sec on, 1.8sec off Intermittent	T 2	T 5
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	T 2	T 5
T 20	660Hz Continuous	T 2	T 5
T 21	554Hz/440Hz @ 1Hz Alternating	T 2	T 5
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5
T 23	800Hz @ 2Hz Intermittent	T 6	T 5
T 24	800/1000Hz @ 50Hz Sweeping	T 29	T 5
T 25	2400/2900Hz @ 50Hz Sweeping	T 29	T 5
T 26	Bell	T 2	T 15
T 27	554Hz Continuous	T 26	T 5
T 28	440Hz Continuous	T 2	T 5
T 29	800/1000Hz @ 7Hz Sweeping	T 7	T 5
T 30	300Hz Continuous	T 2	T 5
T 31	660/1200Hz @ 1Hz Sweeping	T 26	T 5
T 32	Two T chime.	T 26	T 15