

Explosion Proof 115dB(A) Alarm Horn & 5J Xenon Strobe

(ZT-EXP-SB/R)



Description

The Zeta ZT-EXP-SB/R is a globally certified alarm horn sounder featuring a re-entrant flare horn and combined with a 5 Joule Xenon strobe beacon. Robust Type 4/4X, IP66 marine grade, corrosion proof aluminium enclosure approved for Class I & II Div 1, Zone 1 & 20, IECEx and ATEX Zone 1, 2, 21 & 22 explosion proof signalling applications.

Featuring 64 alarm tone sounds, each of the available 4 stage/channels can be remotely triggered. Class D amplification provides a high sound output at optimum operating current. The threaded flameproof joint, multiple cable entries and duplicated, pluggable termination simplifies both installation and routine maintenance. The 24Vdc Class I version is approved for public (alarm horn) and private mode fire alarm use (strobe beacon). SIL1 & SIL2 Route 2H compliant to IEC61508 (2010) as standard

Features

- Maximum sound pressure level output of 115dB(A)
- Automatic synchronisation on multi-beacon & sounder systems
- UL464 / CAN/ULC-S525 & UL1638 / CAN/ULC-S526

Approvals

UL/cUL/ULC File ref: E230764
IECEX Certificate: IECEX ULD 19.0008X
ATEX Certificate: DEMKO 19 ATEX 2141X
CSFM listing: 7136-2279:0506
UKCA certificate: UL21UKEX2132X

Coding

NEC / CEC Class / Zone

Class I Zone 1 IIC T4 Gb Ta -55°C to +85°C
Class I Zone 1 IIC T4A Gb Ta -55°C to +80°C
Class I Zone 1 IIC T5 Gb Ta -55°C to +60°C
Class I Zone 1 IIC T6 Gb Ta -55°C to +45°C

CEC Class / Zone

Class I Zone 1 IIC T5 Gb Ta -55°C to +55°C
Class I Zone 1 IIC T6 Gb Ta -55°C to +45°C

NEC Class / Div

Class I Div 1 ABCD T4 Ta -55°C to +85°C
Class I Div 1 ABCD T4A Ta -55°C to +80°C
Class I Div 1 ABCD T5 Ta -55°C to +60°C
Class I Div 1 ABCD T6 Ta -55°C to +45°C

CEC Class / Div

Class I Div 1 ABCD T5 Ta -55°C to +55°C
Class I Div 1 ABCD T6 Ta -55°C to +45°C

IECEX / ATEX

II 2G Ex db IIC T4/T5 Gb Ta -55°C to +75°C
II 2G Ex db IIC T5 Gb Ta -55°C to +55°C
II 2G Ex db IIC T6 Gb Ta -55°C to +40°C (DC only)
II 2D Ex tb IIIC T115°C Db Ta -55°C to +75°C

NEC Class / Zone – Product version: D

Class II Zone 20 IIIB T4A Gb Ta -55°C to +70°C

NEC Class / Div – Product version: D

Class II Div 1 Group FG T4A Ta -55°C to +70°C

See product manual for full product specific coding



Specifications

Alarm Horn:

Maximum output:

115dB(A) @ 1 metre [106dB(A) @ 10ft/3m]
Class II version: 98dB(A) @ 1 metre [88dB(A) @ 10ft/3m]

Nominal output:

110dB(A) @ 1m +/- 3dB – Tone 4 [101dB(A) @ 10ft/3m]
Class II version: 94dB(A) @ 1 metre [84dB(A) @ 10ft/3m]

No. of tones: 64 (UKOOA / PFEER compliant)

No. of stages: 4

Volume control: Full range Effective range: 125m/410ft @ 1KHz

Voltages DC: 24Vdc (20-28Vdc)

Voltages AC: 110-120Vac, 220-240Vac

Stage switching: DC units: negative or positive
AC units: common supply line

Strobe Beacon:

Energy: 5 Joules (5Ws)

Flash rates:

Option 1: 1Hz (60 fpm)
Option 2: 1.5Hz (90 fpm)
Option 3: Double Strike

Eff. Intensity: 143 cd* – measured ref. to I.E.S.

Peak Candela: 46,976 cd* – measured ref. to I.E.S.

Eff. Intensity: 250 cd – calculated from energy (J)

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

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

Tube life: Emissions reduced to 70% > 5 million flashes

General:

Safety Integrity Level: SIL1 and SIL2 Route 2H IEC61508 (2010)

Ingress protection: EN60529: IP66/67

UL50E / NEMA250: 4 / 4X / 3R / 13

Enclosure material: Marine grade aluminium LM6 – copper free
Chromated & powder coated – corrosion proof

Enclosure colour: Red or Grey

Cable entries: 1x1/2"NPT & 2xM20 – thread adaptors available

Terminals: 0.5 – 2.5mm² (20-14 AWG) Pluggable, duplicated terminals

Grounding stud: M5



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Specifications cont.....

Line monitoring: Blocking diode included. EOL Min. 500 Ohm 2W, or 3k3 Ohm 0.5W resistor or diode (DC versions) can be fitted.

Enclosure volume: <2 litres

Installation temp: -55 to +85°C [-67° to +185°F]

Storage temp: -55 to +85°C [-67° to +185°F]

Relative humidity: 99%

95% – Additional tropicalisation is recommended for applications, where both high relative humidity & high ambient temperatures exist

Vibration test: 35Hz for a duration 4Hr (UL464)

Jarring test: 3ft/lb Energy (UL464)

Impact test: 3x 5lb (UL464)

Weight: 5.2kg/11.4lbs

Current Consumption

Nominal Voltage:	Voltage range:	Xenon Strobe Nominal current:	Alarm Horn Nominal current:	Combined Nominal current:	Combined Max. current:	In Rush
24Vdc	20-28Vdc	323mA	185mA	508mA	555mA	786mA <5ms

