

Explosion Proof Sounder

(ZT-EXP-S/R)

Description

The Zeta ZT-EXP-S/R is a high performance globally certified alarm horn sounder featuring a sound output of up to 115dB(A). The robust Type 4/4X, IP66 marine grade, corrosion proof aluminium enclosure is 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 tones with 4 remotely activated stage/channels. The threaded flameproof joint, multiple cable entries and duplicated, pluggable termination simplifies both installation and routine maintenance. This 24Vdc version is EN54-3 EU, UK CPR, MED and MER compliant plus UL464 NFPA complaint for public mode fire alarm use. SIL1 & SIL2 Route 2H to IEC61508 (2010), with optional diagnostics for Route 1H SIL2 compliance

Features

- Choice of 64 alarm tone frequencies
- 4 remotely selectable alarm stages/channels
- Positive or negative line stage/channel switching
- Automatic synchronisation on multi-sounder system
- Ratchet adjustable 316 stainless steel bracket
- Triple cable entries
- Robust marine grade aluminium enclosure
- EN54-3 tested – EU & UK CPR compliant
- UL464 Public mode fire alarm use
- CAN/ULC S525 Audible Signaling Devices for Fire Alarm

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
CCCEX certificate: 2022122310115173
EU CPR certificate: 2831-CPR-F4858
UK CPR certificate: 0832-UKCA-CPR-F1782
MED certificate: MEDB000085K
MER certificate: MERB000085K
SIL1 & SIL2 compliant to IEC61508 (2010)

Coding

- **NEC / CEC Class / Zone**
Class I Zone 1 IIC T5 Ta -55°C to +85°C (T6 +75°C)
- **NEC / CEC Class / Div**
Class I Div 1 ABCD T5 Ta -55°C to +85°C (T6 +75°C)
- **IECEX / ATEX**
II 2G Ex db IIC T5 Gb Ta -55°C to +75°C (T6 +70°C)
II 2D Ex tb IIIC T82°C Db Ta -55°C to +75°C
- **Product version: D: NEC / CEC Class / Div**
Class II Div 1 FG T6 Ta -55°C to +70°C
Class III Div 1 Ta -55°C to +70°C

See product manual for full product specific coding



Specifications

Max output:

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

Nominal output:

110dB(A) @ 1m +/- 3dB – Tone 4 [101dB(A) @ 10ft/3m]
Class II version: 94dB(A) @ 1m [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 (11.5-54Vdc)
In-rush: 815mA within 4ms @ 24Vdc
Stage switching: DC units: positive or negative

Safety Integrity Level:

Product version A: SIL1 and SIL2 Route 2H
Product version S: SIL2 Route 1H with diagnostics SFF: >99%
See install manual for reliability & functional safety data

Ingress protection: EN60529: IP66/67

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

Enclosure material: Marine grade LM6 aluminium alloy

Enclosure colour: Red or Grey

Enclosure finish: Chromate & powder coated finish

Cable entries: 2 x M20x1.5mm & 1x1/2" NPT

Stopping plugs: Brass

Terminals: 0.5 – 2.5mm² (20-14AWG) – 12AWG solid core conductor

Pluggable & duplicated terminals

Line monitoring: Blocking diode included

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

Ground/Earth stud: M5

Enclosure volume: < 2litres

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

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

Relative humidity: 99%

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

Jarring test: 3ft/lb Energy (UL464)

Impact test: 3x 5lb (UL464)

MTBF DC: 225.16 years / 1,972,386 hours – MIL 217

MTBF AC: 138.96 years / 1,217,285 hours – MIL 217

Weight: 4.00kg/8.80lbs



Explosion Proof Sounder (ZT-EXP-S/R)

Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	Max. current:	In-rush:
24Vdc	11.5-54Vdc	185mA	221mA	815mA <4ms

Other Voltage options are available upon request.

