

# BExTS110 & BExDTS110 ATEX EEx Telephone Initiated Alarm Sounder



- Maximum output : 117dB(A) @ 1 metre  
Nominal output : 110dB(A) @ 1m +/- 3dB - Tone 2.
- TS110D : EEx d IIC T4 (Tamb. -50 to +55°C)
- ATEX / CENELEC / FTZU / GOST R
- Suitable for Zone 1 & 2, Gas groups IIC, IIB & IIA
- 32 alarm tones (UKOOA/PFEER compliant)
- 100m effective range @ 1kHz
- Voltages : 115vac; 230vac
- S110D : IP67
- Enclosure material : Marine grade LM6 Aluminium
- Chromated & powder coated finish - good resistance to humidity and salt spray environments.
- BExTS110D Horn : High impact UL94 V0 & 5VA FR ABS
- BExDTS110D Horn : Anti-static High impact ABS
- Colour available : Red (RAL3000)
- Operating temperature : -50 to +55°C
- Storage temperature : -50 to +70°C
- Weight : 3.20kg
- KEMA Certificate number : 99ATEX6312



**BExTS110D**  
Flameproof sounders  
Zones 1 & 2  
⊕ II 2G EEx d IIC T4



**BExDTS110D**  
Flameproof & Dust ignition proof  
sounders  
Zones 1, 2, 21 & 22  
⊕ II 2G/D EEx d IIC T4 T100°C

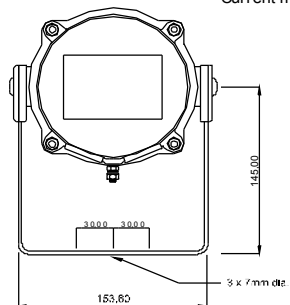
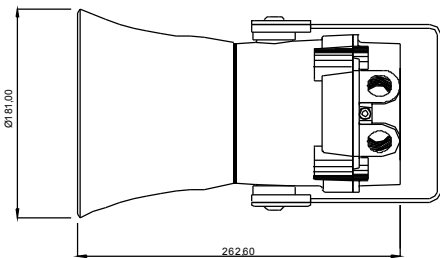
- The ring-tone circuit senses the ringing voltage on the telephone line and switches the supply onto signal until the telephone is answered.  
The sound can be continuous or follow the telephone ring (selectable option)

**Installation Features.**

- Very large termination area.
- Dual M20 ISO cable gland entries (supplied with one stopping plug).
- Ratchet adjustable stainless steel 'U' bracket for positive adjustment under harsh conditions.
- IN & OUT terminals
- Terminals accept 0.5 to 4.0mm<sup>2</sup> cables.
- Telephone line ringing voltage switches power (115vac or 230vac) to enable sounder to operate.

Input voltages and current consumption for the TS110D telephone initiated sounder.

Voltage :	115vac	230vac
	50/60Hz	50/60Hz
Voltage range :	+/-10%	+/-10%
Current mA :	110mA	56mA



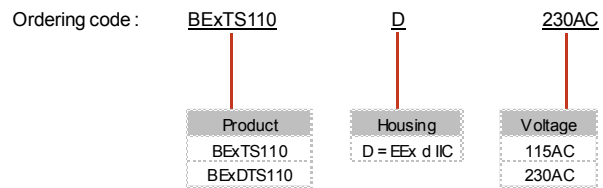
All dimensions are in millimetres.

Also available :

- BEx(D)S110 & S120 EEx d & EEx de sounder units
- Programmable versions with 45 tones and 4 stages.
- BEx(D)A110 & A120 EEx d & EEx de Voice Annunciation units.
- BExBG EEx d & EEx de 5, 10 & 15 Joule Xenon beacons
- BEx(D)L15 & 25 watt EEx d & EEx de loudspeakers.
- BExTBG05 EEx d Telephone initiated beacon

Stage 1	Frequency Description	Max dB @ 1m	
Tone 1	1000Hz Continuous - PFEER Toxic Gas	110dB(A)@1m	
Tone 2	800/1000Hz @ 0.25 sec Alternating	110dB(A)@1m	
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	110.5dB(A)@1m	
Tone 4	800/1000Hz @ 1Hz Sweeping	110dB(A)@1m	
Tone 5	2400Hz Continuous	109dB(A)@1m	
Tone 6	2400/2900Hz @ 7Hz Sweeping	109dB(A)@1m	
Tone 7	2400/2900Hz @ 1Hz Sweeping	110dB(A)@1m	
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	110.5dB(A)@1m	
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	110.5dB(A)@1m	
Tone 10	2400/2900Hz @ 2Hz Alternating	109dB(A)@1m	
Tone 11	1000Hz @ 0.5Hz Intermittent	110dB(A)@1m	
Tone 12	800/1000Hz @ 0.875Hz Alternating	110dB(A)@1m	
Tone 13	2400Hz @ 1Hz Intermittent	109dB(A)@1m	
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	103dB(A)@1m	
Tone 15	800Hz Continuous	103dB(A)@1m	
Tone 16	660Hz 150mS on, 150mS off Intermittent	104dB(A)@1m	
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	107dB(A)@1m	
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	105dB(A)@1m	
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	117dB(A)@1m	
Tone 20	660Hz Continuous	104dB(A)@1m	
Tone 21	554Hz/440Hz @ 1Hz Alternating	107dB(A)@1m	
Tone 22	544Hz @ 0.875 sec. Intermittent	107dB(A)@1m	
Tone 23	800Hz @ 2Hz Intermittent	103dB(A)@1m	
Tone 24	800/1000Hz @ 50Hz Sweeping	107dB(A)@1m	
Tone 25	2400/2900Hz @ 50Hz Sweeping	109dB(A)@1m	
Tone 26	Bell	117dB(A)@1m	
Tone 27	554Hz Continuous	107dB(A)@1m	
Tone 28	440Hz Continuous	104dB(A)@1m	
Tone 29	800/1000Hz @ 7Hz Sweeping	106dB(A)@1m	
Tone 30	420Hz @ 0.625 sec Intermittent - Australian Alert	104dB(A)@1m	
Tone 31	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	110.5dB(A)@1m	
Tone 32	500-1200Hz 3.75sec / 0.25sec. - Australian Evac.	110.5dB(A)@1m	

Note: SPL readings are at nominal voltage, typically +/-3dB and are for indication purposes only. Where applicable, reduce outputs by 5dB when a 10-30vdc unit is supplied 12vdc.



TSP2401-C

Multiple-unit configurations are available on stainless mounting plates. Combine 2, 3 or 4 devices - alarm sounders, loudspeakers, beacons. If required, units can be pre-wired to minimise installation time.