Model No.: TDE-SPKR-EX

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Thank you for using our products. Pls read this manual before operation.

Overview

TDE-SPKR-EX explosion-proof speaker is a constant pressure type high volume horn speaker, (constant resistance type can be customized according to use's request).
TDE-SPKR-EX explosion-proof speaker is suitable to be installed in the places where contain flammable or explosive materials, for example, in petroleum, chemical, textile, military, power, metallurgy, pharmaceutical and other industries. This item can be used in public amplifier system.
TDE-SPKR-EX explosion-proof speaker complies with GB3836-2010 standards for explosion proof performance. The explosion-proof speaker is applicable to Zone 1 and zone 2, containing the hazardous area of class Ⅱ C T6 temperature explosive gas atmosphere.

Parameters

- Explosion-proof mark: Ex d Ⅱ C T6 Gb
- The ambient temperature: -10° C ~ +55° C
- Relative humidity: ≤95% (non-condensing)
- Atmospheric pressure: 80~110KPa
- Audio signal voltage: 100~120 VAC
- Power capacity: 15W /30W /50W
- Impedance: 8 Ω / 16 Ω
- Sound intensity: ≤100dB
- Wight: about 6kg

Appearance and Dimension

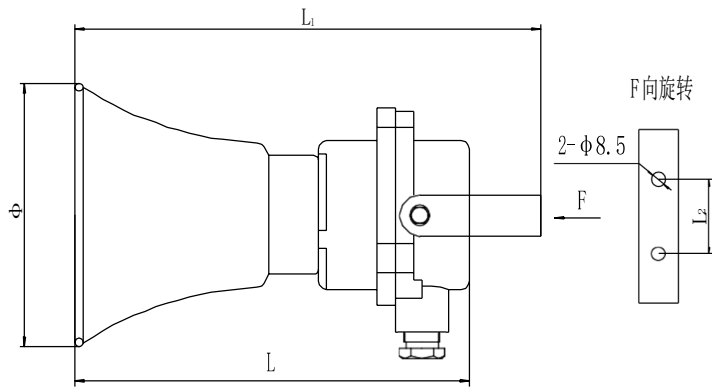

Figure 1

Testing, Installation, Wiring

Testing: the end user should test the device after unpacking the shipping carton. Testing guidance is as follows:

There are 2 conducting wires lead from the cable inlet of the device, connect the audio signal wires to the conducting wires, must pay attention to the polarity (red is negative pole, green is positive pole), if the speaker present a sound for duration of several minutes, that means the product is qualified.

Note: The conducting wires is only for user testing purpose. When the device is connected to public amplifier system, the conducting wires should be removed, instead, use at least S=1.5mm^2 cross-sectional area cable to connect it , Otherwise, the detector will lose its explosion-proof performance.

Installation:

(1) Connect the megaphone to the explosion-proof chamber with three pieces M4 screws, screw the reflector to the threads of explosion-proof chamber.

(2) Connect the assembled speaker to the wall or roof beam with two pieces M8 screws.

(3) Use M8 bolts to tighten the speaker.

Cable Lead-in Device: class II B adopts gland nut sealing ring structure class II C adopts stuffing seal structure.

Wiring: Loosen the fixing screw of the device's outer housing and open the explosion-proof chamber. Connect the audio signal wires to the wiring terminals, must pay attention to the polarity (red is negative pole, green is positive pole). After wiring is completed, please well installed the explosion-proof cover to the explosion-proof body. Be careful not to mix wires or other foreign objects on the explosion proof surface.

Precaution

1. It is strictly forbidden to disassemble the **electrified** device in flammable and explosive places.
2. Keep the explosion proof base clean and dry, be careful not to damage it during installation. The fastening screws of the explosion-proof base should be tightened. Be careful not to mix foreign objects on the explosion-proof base.
3. If the device is in long-term use, please maintain it regularly, make sure the device is in good condition and with good performance. Please give to professionals for repair if the device has any failure or damage.