Q-SYS™

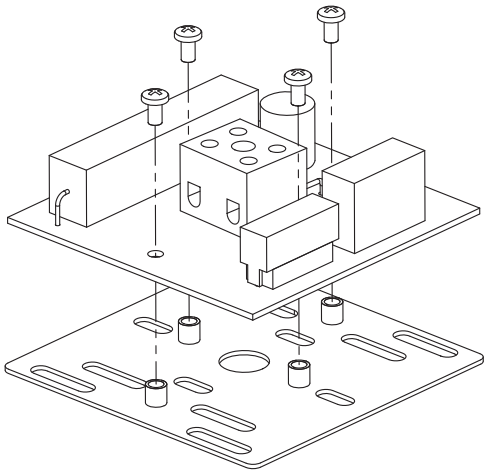
PTL-1 Quick Start Guide

Introduction

The Q-Sys PTL-1 (Pilot Tone Load) is a circuit that provides a 22 kHz impedance "soak" at the end of a 70V/100V loudspeaker line. When used in combination with a QSC DataPort amplifier or CXD-Q amplifier and Q-Sys, the PTL-1 becomes a vital component in the real-time monitoring of each loudspeaker line.

When a 22 kHz pilot tone (outside of the audible range of human hearing and undetectable above the program material) is transmitted along each loudspeaker line, Q-Sys Designer is able to easily detect a deviation in the impedance at 22 kHz. A significant drop below a pre-determined impedance will signify that a short-circuit has occurred, while a significant rise above a pre-determined impedance will signify that an open-circuit has occurred. Each failure scenario will generate time-stamped events into the Q-Sys Event Log, and even trigger alert messages if desired.

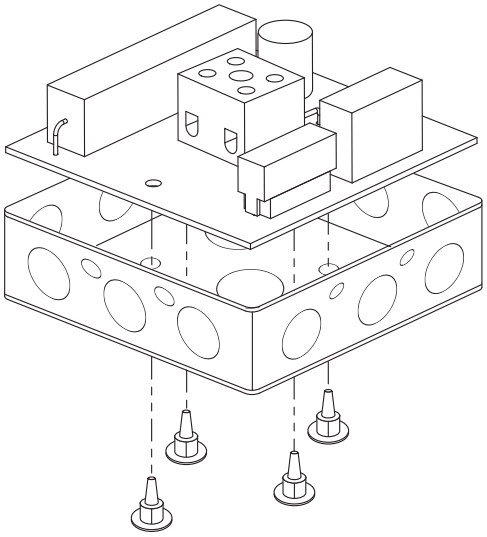
The system designer can select whether the pilot tone is only generated during a scheduled maintenance check, or whether it is always active and providing real-time diagnostics on every zone.



– Figure 1 –

Features

- Pilot tone detection on 70V/100V loudspeaker circuits using QSC DataPort amplifiers or CXD-Q amplifiers.
- Ceramic screw-down Connector block.
- Fuse protects circuit against shorts.
- Fits most plenum-rated multinational standard 2-Gang electrical box types.



– Figure 2 –

Installation

Option 1 - Holes in the Electrical box do not line up with the holes in the PTL-1. See Figure 1

1. Install the PTL-1 mounting bracket into customer provided electrical box \ plenum rated enclosure. Some examples: OBO T100, Hensel KD5060, or equivalent.
2. Install the PTL-1 onto the mounting bracket using the supplied screws.

Option 2 - The holes in the PTL-1 align with the holes in the customer supplied electrical box. For example, Hubbel\Raco 193 or equivalent.

Install the PTL-1 into the enclosure using the (4) nylon standoffs provided. See Figure 2. The mounting bracket is not required for this application.

Connections

1. Connect the end of the loudspeaker line to the + and – terminal of the ceramic header J1 using 24-14 AWG wire.
2. The PTL-1 is now ready for operation

NOTE: For configuring the PTL-1 in Q-Sys Designer, refer to the Q-Sys Designer Online Help..

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