



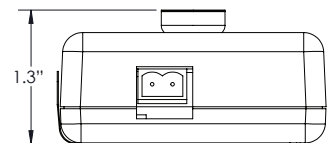
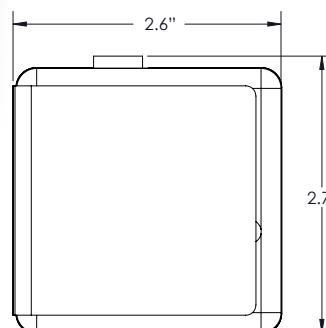
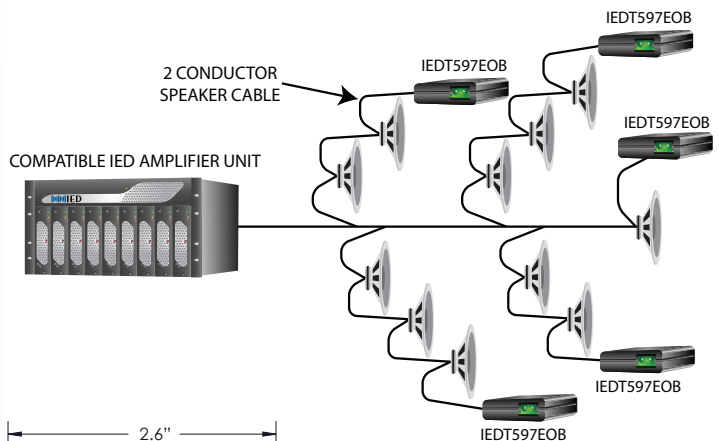
Description

The IEDM597EOB line supervision module is a device used with the IED Titan series supervision system for loudspeaker lines that contain multiple branches, or T-taps. This provides enhanced supervision functionality for installations that utilize existing branched loudspeaker circuits. A module is installed at the last loudspeaker location in each branch and connected to the speaker terminals on the loudspeaker.

Each module has a unique serial number address that is used by the system to identify the module through the loudspeaker line. The IEDT9160 Integrated Power Amplifier Unit transmits a signal to activate each device. When activated, the module places a load at 19.2kHz that is then detected by the IEDT9160. The T9160 activates each module in sequence on the loudspeaker line in order to verify that the wiring is intact between the power amplifier output and the 597EOB module. This supervision functionality operates over any program audio and is completely transparent to the listener.

No remote power is required as the module utilizes a proprietary method for deriving power from the loudspeaker line. The unit is charged when a 19.2kHz tone is applied to the loudspeaker line.

End-of-Branch supervision is an add-on function to the built-in power amplifier voltage and loudspeaker line current sensing supervision of the T9160 Integrated Power Amplifier Units.



Specifications

Electrical

Minimum Operating Voltage at Module.....	10 VRMS
Maximum Input Voltage.....	(22Hz – 15kHz) 100VAC (15kHz – 22kHz) 50VAC
Maximum Wire Length.....	10ft from last loudspeaker
Maximum Modules per Circuit.....	20

Connectors

Input	2-pin Euroblock
Wire Gauge	12 – 30 AWG

Mechanical

Height.....	2.7" (6.9 cm)
Width.....	2.6" (6.6 cm)
Depth.....	1.3" (3.3 cm)
Mounting	magnet for attachment to metal structure in ceiling

Environmental

Operating Temperature Range	-4 °F – +176 °F (-20 °C – +80 °C)
Storage Temperature Range	-22 °F – +185 °F (-30 °C – +85 °C)

Compliance

UL 60065 (Ed. 7) Listed
CAN/CSA C22.2 No. 6005:03 Certified
EN 60065:2002
Patent Pending