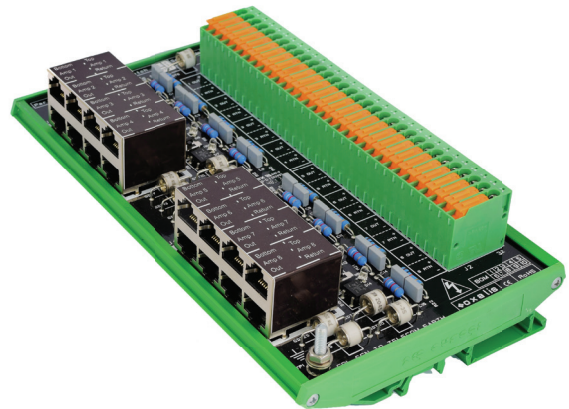


Sonix™ Eol8

PA/GA power amplifier end of line unit



Overview

Sonix™ Eol8 unit is a compact amplifier loop termination and monitoring device. Designed to work with the Sonix™ 350-d high efficiency amplifiers, the Sonix™ Eol8 securely houses the circuitry whilst managing loudspeakers connected to the Sonix™ PA/GA system and external field cabling.

Features

- Compact and efficient DIN rail mount fixing
- Low rack footprint
- Monitors up to 8 speaker loops
- Series connectivity of up to 8 loops per amplifier
- Out of band discrete monitoring signals
- Real-time high-integrity field cable monitoring
- Rapid reporting of line fault conditions
- Design focused MTBF/MTTR
- Supports loop based loudspeaker cabling
- Dual RJ45 connectivity for easy maintenance
- Field cable lightning suppression

Sonix™ PA/GA system autonomously monitors and supervises the amplifier, loudspeaker cable insulation and loop integrity with a 22 kHz in-audible out of band signal up to every 30 seconds. The robust and industrial design of the system ensures its protection against open circuit, short circuit, Earthing issues and abnormal loads associated with field loop faults. In the event of such common field loop faults, the Sonix™ PA/GA system rapidly detects, reports and diagnoses the fault, reporting this information back via the amplifier, 2Mx controller and onward to ICCS output and the Sonix™ software. During this, the amplifier intelligently protects the output from permanent damage.

Provided with blade terminals on amplifier loop outputs to securely and safely isolate the field cables for testing and fault rectification. The Eol8 ensures that, at all times, field speakers are driven with audio signals in both directions. This self-healing loop design feature ensures that in the event of an open circuit condition critical communications are not lost.

Within the Sonix™ central cabinet the Eol8 is connected via rapid fit RJ45 connectors, ensuring a quick and failsafe connection to the amplifier. In the event that any internal RJ45 cable are disconnected the faults will be logged on the Sonix™ system. Each Eol8 can support 8 amplifiers or be easily configured to provide 8 common (series) outputs per amplifier to assist with field cable topology and reduce IDF requirements on larger loops.

Certifications

Certification CE, Environmental and EMC (IEC60945)

Specifications

Mechanical / environmental

Fixing DIN rail security fixing

Weight 520 g

Dimensions (H x W x D mm) 205 x 118 x 54.7

Material Flame retardant PVC/PA UL94V-0

Operating temp 0 °C up to +55 °C

Operating relative humidity 20 to 95% non-condensing

Service location Safe internal location

Connectors Eol Bus: rapid Fit 8P8C (RJ45) modular jacks
Speaker loops: polyamide blade terminals

Ingress protection rating IP30

Electrical

Voltage 100 V audio from 350-d amplifier

Power supply N/A Passive Device

Consumption N/A

Heat <1 W

Amplifier loop protection Open loop, short loop, earth, intermittent and line deviation via 22 kHz

Lightning Protection 32 x 350 V Gas Discharge Tube to Earth up to 10 kA

Connectivity (all internal connectivity can be radial or self-healing loops as standard)

Eol bus 8 x 2 RJ45, providing 8 amplifier inputs

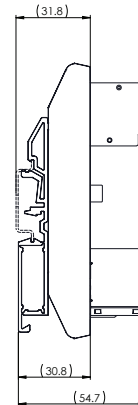
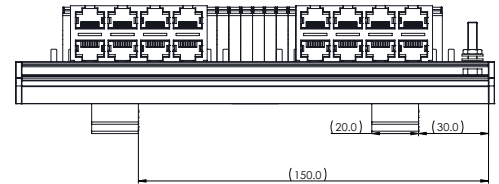
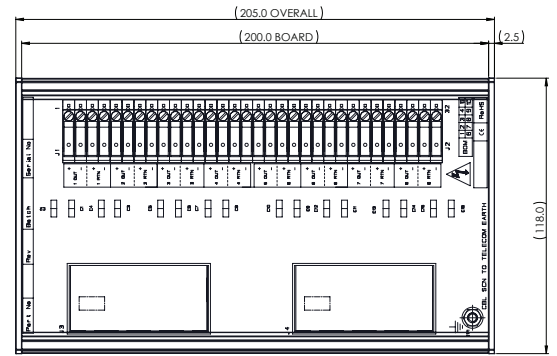
Speaker loops 8 x 4 blade terminal blocks accepting up to 4.0mm² solid or 2.5mm² with suitable ferrule

Earth Bond M4 x 20 mm

General

Terminal Driver Phoenix Contact 1205121

General arrangement drawing (all dimensions in mm)



Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

Model

Sonix-Eol8