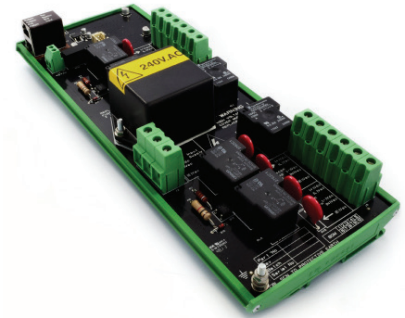


Sonix™ Vw2

PA/GA beacon control and monitoring unit



Overview

Sonix™ Vw2 unit is a compact, high capacity beacon loop control & monitoring device. Designed to work with the 2mx PA/GA matrix, the Vw2 is a compact DIN rail mountable device to interface the Sonix™ PA/GA system to the external beacon field cabling.

Features

- Compact and efficient DIN rail mount fixing
- Configurable via Sonix™ Software
- Low rack footprint
- Monitors and reports on 2 loops of beacons
- Individual control of up to 2 loops of beacons
- High integrity field cable monitoring
- Rapid reporting of line fault conditions
- Design focused MTBF/MTTR
- Low thermal emissions
- Operating on self-healing ring
- Dual RJ45 connectivity for easy maintenance
- Works for loop monitoring
- Dual 10A switching channels
- Field cable lightning suppression

Sonix™ Vw2 autonomously monitors and supervises the field cables, beacon cable installation and loop integrity with a discrete non-visual signal. The robust and industrial design of the system ensures its protection against open, short circuit associated with field loop faults. In the event of such common field loop faults, the Vw2 rapidly detects, reports and diagnoses the fault, reporting this information back to the 2mx controller, DCS and to the Sonix™ Software.

The unit is provided with industrial beacon loop terminals to securely and safely isolate the field cables for testing and fault rectification. The Vw2 ensures that at all times field beacons are driven with power signals in both directions. This self-healing ring design ensures that, in the event of an open circuit condition, critical visual communication are not lost.

Within the Sonix™ central cabinet the Vw2 is connected via rapid fit RJ45 connectors, ensuring a quick and failsafe connection to the 2mx matrix. For additional security, this internal connectivity is also operated on a self-healing ring architecture.

Vw2 is configurable via the Sonix™ Software to suit your visual warning design and up to 6 Vw2 can be connected per system providing 12 channels of independent control.

Certifications

Certification CE, Environmental and EMC (IEC60945)

Specifications

Mechanical/environmental

Fixing DIN rail security fixing

Weight 700g

Dimensions (H x W mm) 305 x 118

Material Flame retardant PVC/PA UL94V0

Operating temp -20°C to +55°C

Operating relative humidity 20 to 95% non-condensing

Service location Safe internal location

Connectors Beacon bus: rapid fit 8P8C (RJ45) modular jacks
Beacon loops : polyamide terminals 16mm²

Ingress protection rating IP30

Electrical

Beacon voltage 48Vdc / 110Vac / 240Vac

Power supply Regulated 48 Vdc from Pm10 power distribution unit

Consumption 100 mA

Heat 5 W max.

Fuses 2 x 10A slow blow fuses (Replacement Mersen S218194)

Beacon loop protection Open loop, short loop, earth, intermittent and line deviation

General

Fault contact Via 2Mx local and remote software reporting

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

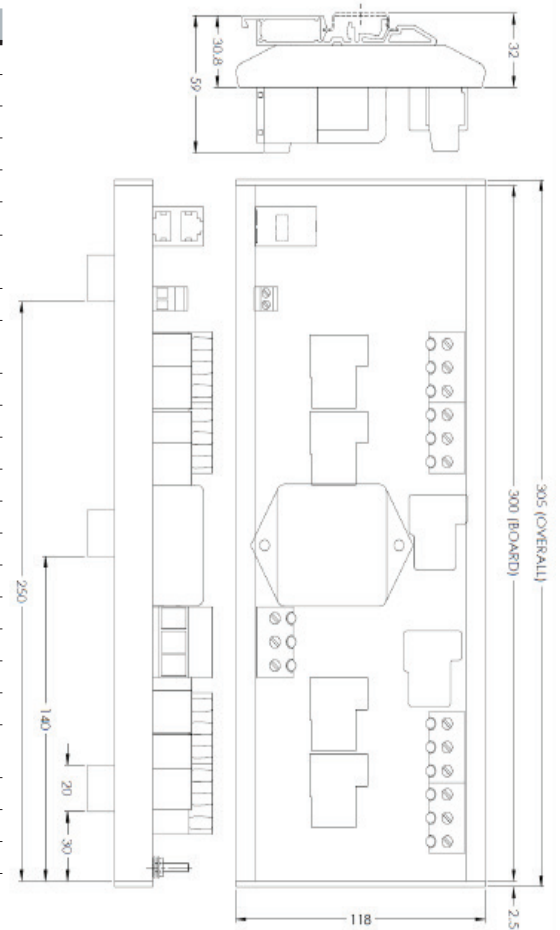
Beacon bus 2 x RJ45, providing 2 beacon loop inputs either radial or self-healing loop (see 2mx datasheets)

Beacon Power In 3 way terminal block, accepting up to 16mm² solid or with suitable ferrule

Beacon Loops 2 x 6 way terminal blocks, accepting up to 16mm² solid or with suitable ferrule

Earth Bonding M4 x 20mm stud

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-Vw2