TOA

LOOP ISOLATOR SYSTEM
for VX-3000 Voice Alarm Systems

Isolator
VM-300IS

Loop Isolator Monitor
VX-3000IM

EN
54-16

Highest Reliability for Loudspeaker Broadcast.

LOOP ISOLATOR SYSTEM
for the VX-3000 system

The isolator monitor VX-3000IM is designed to monitor the transmission path of 8 loudspeaker loops equipped with the isolators VM-300IS. Normally, when no fault is present, it sends the audio signal into the beginning of the loop. In case of a short circuit on the loudspeaker line, the isolators isolate the defective part of the line from the proper line. Then the isolator monitor VX-3000IM sends the audio signal into the beginning and end of the loop. It indicates the defective line by an LED on the front panel and provides a control output signal for each faulty line to the VX-3000F. As a result, the broadcast will not be interrupted on any loudspeaker, i.e. all loudspeakers sound! No need to install two loudspeakers on two lines when one loudspeaker is sufficient.

FEATURES

- Full recovery of loudspeaker broadcast in case of a single fault of the loudspeaker line (short, break)
- For 8 channels / loudspeaker line loops
- Up to 60 isolators per loop
- Status indicator for each channel
- 19-inch unit with 2 U

SPECIFICATIONS VX-3000IM

Power source	31 V DC (operating range: 19 V – 33 V DC), from VX-3000DS or VX-3150DS-EB, removable terminal block 2 pins
Indicator (front panel)	Power: green LED Zones: 2-colour LED; zone OK: green, zone fault: yellow
Controls	Lamp test button
Control output	Failure outputs: 8 (for zones 1 – 8), no-voltage make contact, max. control current: 10 mA, withstand voltage: 28 VDC Connector: shielded RJ45, recommended cable: Cat5-STP/FTP
Amplifier inputs	8 (from VX-3000F) 8 removable screw terminal blocks, 4 pins
Loop connection	8 (loop out and return) 8 removable screw terminal blocks, 4 pins
Loop ratings	Max. cable length: 1 km (requires 1 mm^2 cross section area); max. min./max. speaker wattage per loop: 20 W/150 W max. no. of connectable isolators: 60
Usable isolator	VM-300IS-EB
Operation temperature	-5°C to +45°C
Dimensions	483 (W) x 88.4 (H) x 345 (D) mm
Weight	15,4 kg

SPECIFICATIONS VM-300IS

Isolator type	Bi-directional
Protection	Reverse polarity protection
Dust / Water Protection	IP55
Max. speaker load	6 W
Operating temperature	-10 to + 55 °C
Dimensions	88 (W) x 60 (H) x 34 (D) mm
Weight	100 g