



# VM-3000 Series

Loop Isolator System



**Higher security level,  
lower cabling costs.**

# VM-3000 Series

## Loop Isolator System

The innovative loop technology opens up additional possibilities for your voice alarm installations. The new modules enable the cost-effective VM-3000 series to be set up using ringline technology to optimize the failure safety of the loudspeaker connection.

When installed in a loop the monitor in conjunction with the isolators keeps the speaker lines under surveillance and, in case of a short circuit or break, isolates the defective area from the ring. Thus, the broadcast from all loudspeakers continues even in case of a line fault. In addition this technology has a large saving potential in the needed amount of speakers as well as for cabling and installation.

### FEATURES

- 100% failure safety and continuous broadcasting even in case of a short circuit or break
- Reducing cabling for EN54 compliant system installation because less fire-retardant cabling (E30) is needed
- Replacement of A/B cabling saves installation time
- No need for a second speaker in small rooms
- EN54-16 and EN54-17 certified

### STUB WIRING TECHNOLOGY ★

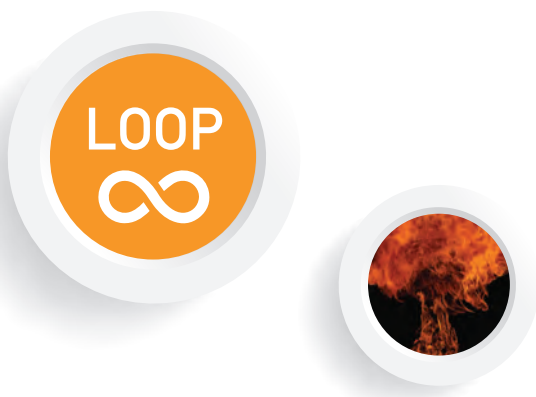
- Leads to a high risk of failure because in the event of a break all loudspeakers behind the breakage would fail.
- In case of a short circuit even the entire line drops out.

### A/B WIRING TECHNOLOGY ★ ★

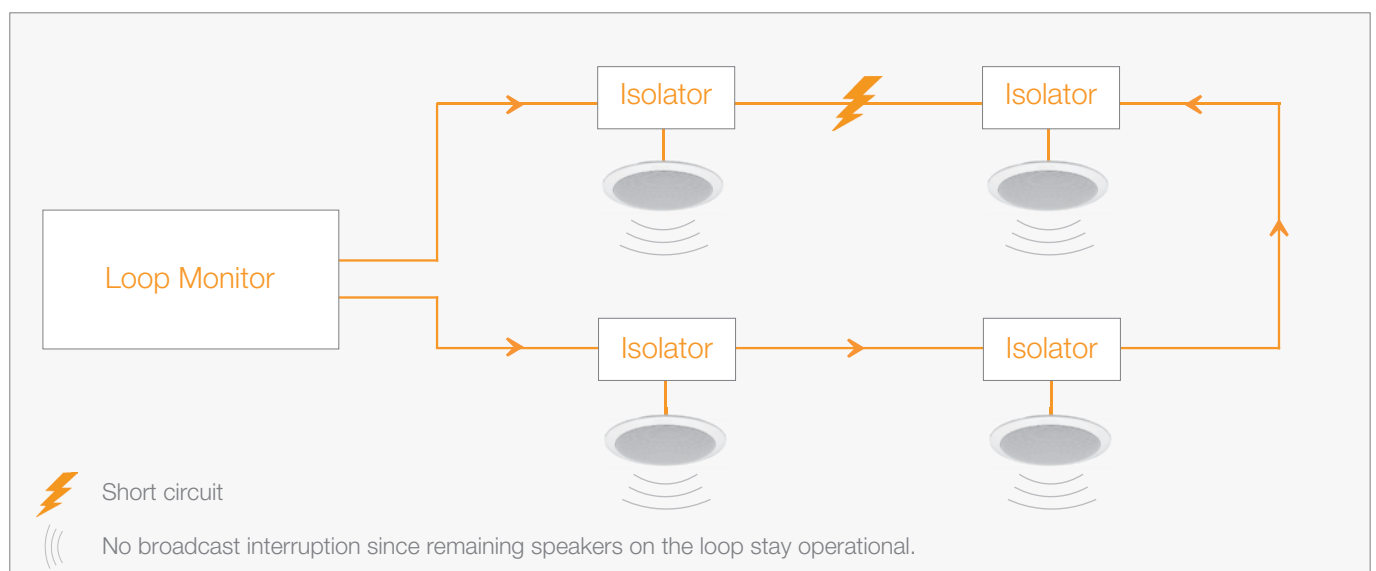
- Minimizes this risk as half of the loudspeakers in one room are operated on different speaker lines.
- In case of a simple line failure (break, short circuit) half of the loudspeakers remain operative.
- The alarm is broadcasted with half the power, the sound level is reduced by 3 dB.

### LOOP ISOLATOR TECHNOLOGY ★ ★ ★

- Isolator modules are mounted to speakers.
- If an open or a short occurs between any two isolators, both immediately isolate the faulty group of speakers between them.
- The remaining isolators and speakers on the loop remain fully operational.



### TECHNOLOGY PRINCIPLE



## APPLICATION EXAMPLES



Schools



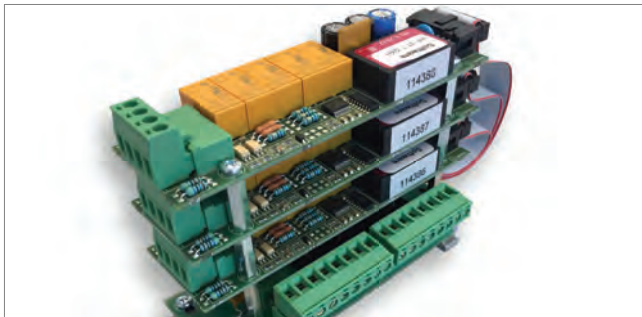
Supermarkets



Office buildings



Hospitals



## LOOP MONITOR

### VM-300IM-EB QJ

- Monitor connected loudspeaker rings
- Up to 3 loudspeaker rings per loop monitor
- For use with VM-3000 system
- Mountable on DIN rail



## LOOP ISOLATOR

### VM-300IS-EB QJ

- Short circuit isolator
- Up to 60 pcs. connectable in one loop
- Must be installed in the speaker line and together with the dedicated loop monitor VM-300IM-EB QJ

## SPECIFICATIONS

	VM-300IM-EB QJ
Line Voltage	Max.: 30VDC, Nominal: 24VDC, Min.: 20VDC
Max. connectable VM-300IS-EB QJ	60 pcs.
Max. speaker load (for one loop)	200W (VM-3240 or VM-3360 zones 1 and 2 are 200W, zone 3 to 6 are 120W)
Max. speaker cable length	1,000m
Operating Temperature	-10 to +55 °C
Dimensions (W x H x D)	125 x 105 x 49mm
Weight	300g
	VM-300IS-EB QJ
Type	Two-direction
Recommended Cables	Shielded cable (Eldra DSQ 2 x 1,5mm <sup>2</sup> or similar)
Max. connectable speaker wattage	6W
Reverse polarity protection	Yes
Dust/Water protection	IP55
Operating Temperature	-10 to +55 °C
Dimensions (W x H x D)	88 x 60 x 34mm
Weight	100g

## VM-3000 SERIES AT A GLANCE

- *Cost-effective integrated public address and voice evacuation system*
- *Easy installation and compact design*
- *EN 54 certified, UL 2572 and CAN/ULC-S576 listed*
- *Intuitive and userfriendly configuration through dedicated PC-Software*
- *Easy integration into existing building management systems*
- *Convenient remote maintenance saves time, effort and costs*



## SYSTEM FEATURES

- 6 – 60 assignable speaker zones
- 240 – 3,600 watt, integrated system management amplifier
- 4 – 13 MIC/LINE audio inputs (volume setting for each audio output)
- 8 remote microphones max. (4x general + 4x emergency; EN 54: max. 2x emergency or 4x general + 1x emergency)
- 2 selectable BGM audio inputs
- 8 priority levels
- 1,000 system events can be logged
- 6 high quality electronic voice messages
- LCD display of current status and configuration settings
- Built-in emergency microphone
- Simultaneous broadcast of 2 emergency messages (alert and evacuation)
- Remote maintenance via LAN
- Continuous speaker line monitoring without interruption of BGM or paging announcements (no external amplifier required)
- Modbus protocol ready
- Complete fault detection and indication

Maximum System Capacity	
Output Power	3,600W
Speaker Zones	60 zones
Remote Mic connection	8 units



**TOA Electronics Europe GmbH**

[www.toa.eu](http://www.toa.eu)

Specifications are subject to change without notice.

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