

TOA ISOLATOR

INSTALLATION MANUAL VM-300IS-EB

Thank you for purchasing TOA's isolator.
Please follow the instructions in this manual carefully to ensure a long and trouble-free use of your equipment.

1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary instructions, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

CAUTION Indicates a potentially hazardous situation which, if mishandled, could result in a moderate or minor personal injury, and/or property damage.

- As up to 100 volts AC is applied to the terminals, never touch the terminals to avoid electrical shock. Leave all cable connections on the unit to a professional contractor.

2. GENERAL DESCRIPTION

The VM-300IS-EB is an isolator that interrupts the connection to a high voltage loudspeaker line in case of a fault. The isolator comes in a IP55 rated small housing and provides cable clamps for a quick and effective installation. It can also be used as an independent isolator for several loudspeakers. This is a cost saving method of engineering a loudspeaker network.

In case of solitary use without connection of a loudspeaker, a resistor needs to be mounted on the loudspeaker terminal (speaker H and C), i.e. the isolator requires a load at the loudspeaker connection, otherwise, a proper functionality of the isolator can not be expected.

The status of the isolator will be indicated by its LED. There are three states:

Blinking one a second: proper function

Blinking two times a second: there is a short circuit on the left side of the isolator

Blinking three times a second: there is a short circuit on the right side of the isolator

Blinking four times a second: start up of the isolator after switching on, i.e. it indicates the powering up of the isolator

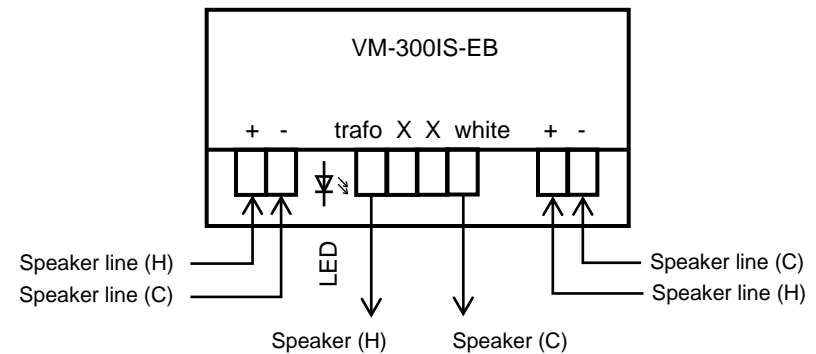
3 HANDLING PRECAUTIONS

- Do not install the unit in locations exposed to the direct sunlight or heaters, as the unit can be deformed or discoloured.
- Avoid installing or storing the unit in dusty or humid locations, as doing otherwise could cause the unit to fail.

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- Keep the isolator as far as possible from a fluorescent lamp, digital equipment, PC or other equipment that generates high frequency noise.
- Since the unit is not "hot-pluggable", the system must be shut down when an isolator shall be installed or removed.
- Take care on correct polarity (positive and negative orientation) when connecting. Reversed polarity connections ca cause a failure.
- Do not install the isolator near a magnet. The distance shall be 20 cm or more.

4. CONNECTION



5. SPECIFICATION

The principles of the short circuit isolator are according to annex A of EN 54-17.

Type of the isolator	2-directional
Degree of enclosure protection	IP55
Operating temperature range	-10°C to +55°C
Dimensions (L x W x H)	88 x 60 x 34 mm
Weight	100 g
Reverse polarity protection	Yes
Recommended speaker line cable	Shielded, Eldra 2x1.5 mm ² or similar
Maximum connectable loudspeaker wattage	6 W

Specifications are subject to change without notice.

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