

VARES↔LOOP

TRT-300A RINGBUS MODULE

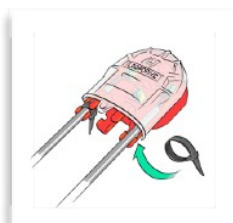
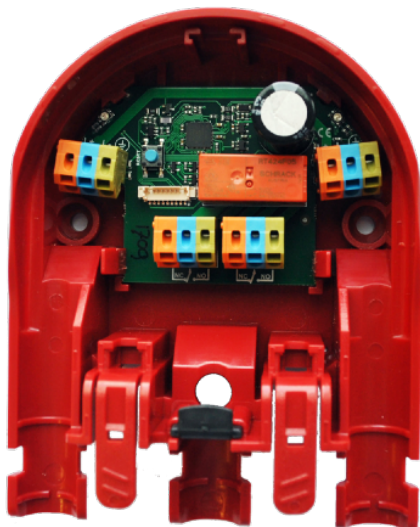
RCS[®]
AUDIO-SYSTEMS

Compatible with:

VARES↔1500

VARES↔2000

VARES↔3000



The TRT-300A acts as a remote contact interface that can activate or deactivate a third party instrument or equipment that needs to be triggered during a live-broadcast of an evacuation event. The TRT-300A sits in the LOOP and receives the broadcast audio message. As soon as the broadcast audio message contains a 20kHz pilote-tone, the on-board relays of the TRT-300A will change state into 'override' mode. The state change is latched as long as the pilote-tone is received.

Depending on the function of the third party instrument or equipment, the TRT-300A offers two potential free NC and a NO switching contacts.

The VARES-LOOP – Ringbus Isolator (TRT-200A) is the successor in our range of loudspeaker loop-isolator devices that are using our patent technology to deliver a higher level of security of evacuation loudspeaker lines that are installed according to the return-loop principle.

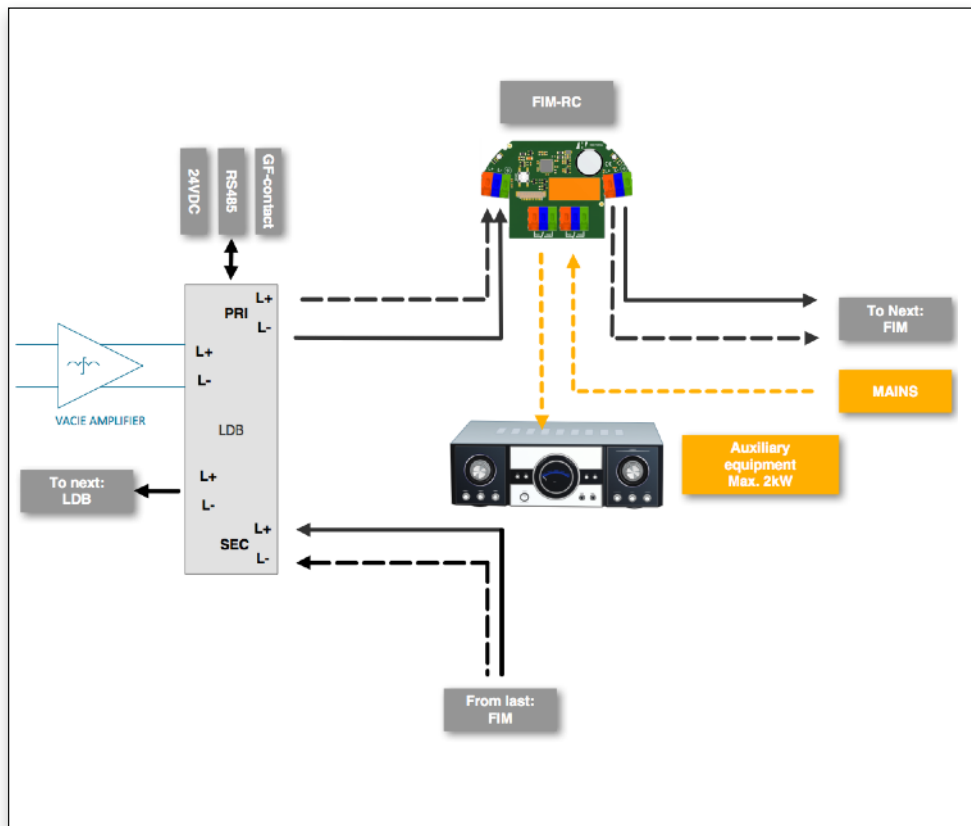
The TRT-300A is equipped with clearly market connectors. It has a LOOP-FEED and LOOP-RETURN connection that are not sensitive for feeding direction. LOOP has a DC-carrier for charging and communication purpose.

Please observe correct connectivity:

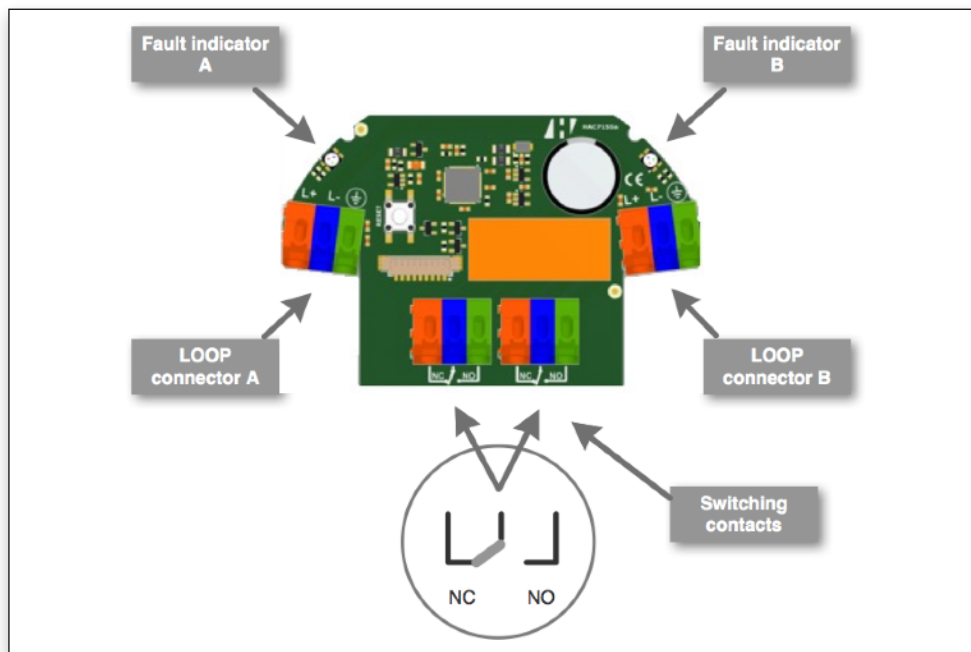
RED = PHASE / PLUS

BLUE = ZERO / MINUS

GREEN = GROUND (If applicable)



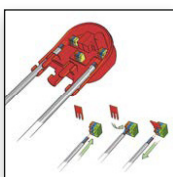
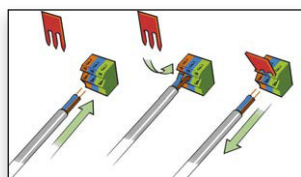
NOTE: The T-Branch switching load is maximised to 2000W. The OVERRIDE signal must be sent together with any emergency message.
The override pilots-tone must be: 20kHz / 7,5Vrms



The TRT-300A has two potential-free switching contacts that connect to third party instrument or equipment. Using these triggering relay contacts, a local source automatically overrides when emergency paging from the VACIE is applied or a local instrument can be energised.

The TRT-300A is equipped with a power capacitor that is charged by the LDB and has enough capacity to operate at least two emergency cycles without the need for re-charging. The LED indicator(s) on the TRT-300A are flashing with intervals to indicate quiescent or fault condition. The TRT-300A has a RESET button for local reset. Please refer to the User and Installation manual for detailed information.

The maximum switching load of the contact relays is: 230VAC/8A.



The TRT-400A is equipped with WAGO push-terminals that accept up to 2,5 mm² core installation cable. A special tool is provided to quickly remove all three wires in one run. (Release-tool is included)

Technical data		TRC-300 A
Electrical		
NOTE FUNCTION	TRT-300A IS NOT EQUIPPED WITH A ISOLATOR !	
DC Power supply (from LDB)	19 - 30 VDC, nominal 30 VDC	
Volume override (from VACIE)	20kHz / 7,5Vrms - fade-in: 0,3s / fade-out: 1,s	
DC Power consumption		
Idle current	100 µA continuous	
Max. power consumption	20mW	
LOOP connection		
DC	30V	
AC Voltage	100Vrms	
AC Frequency range	40Hz - 20kHz (-3dB)	
Wiring Loop	2-wire. Max. 2,5mm2 / Max. Loop length: 1000m	
Pilot-tone	20kHz	
T-Branch output		
2x relay contact	2x 2-pol change-over contact	
Max. AC switching load	2000W (230VAC/8A)	
Grounding	optional earth loop through third connection pin	
Mechanical		
Housing	PP plastic with transparent cover	
Dimensions (WxHxD)	IP 21 housing, 110 x 130 x 55 mm (Basic) IP 33 extension included. 110 x 180 x 55 mm (Optional)*	
Ordering information. Part No.		
TRT-300 A	1x IP21 housing with transparent cover and PCB	
	1 x release tool / 1 x compression gland for speaker mounting	
Certification and Approvals		
Complies with	(EN54-17:2005 does not applies for this module)	
European patent	EP 0967833B1	