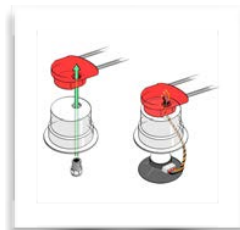
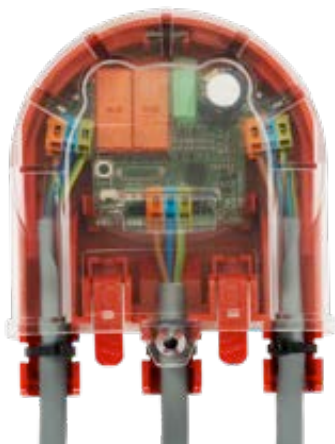


Compatible with:

VARES-1500

VARES-2000

VARES-3000



The VARES-LOOP – Ringbus Isolator Module 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.

A loudspeaker failure in a faulty section between any two TRT-200 A's in the loop is automatically detected and isolated in order to ensure maximum availability of the remaining loudspeakers on that same loop. The Ringbus Isolator Module protects the loop integrity against any wire-to-wire short circuit and detects open line on T-Branch.

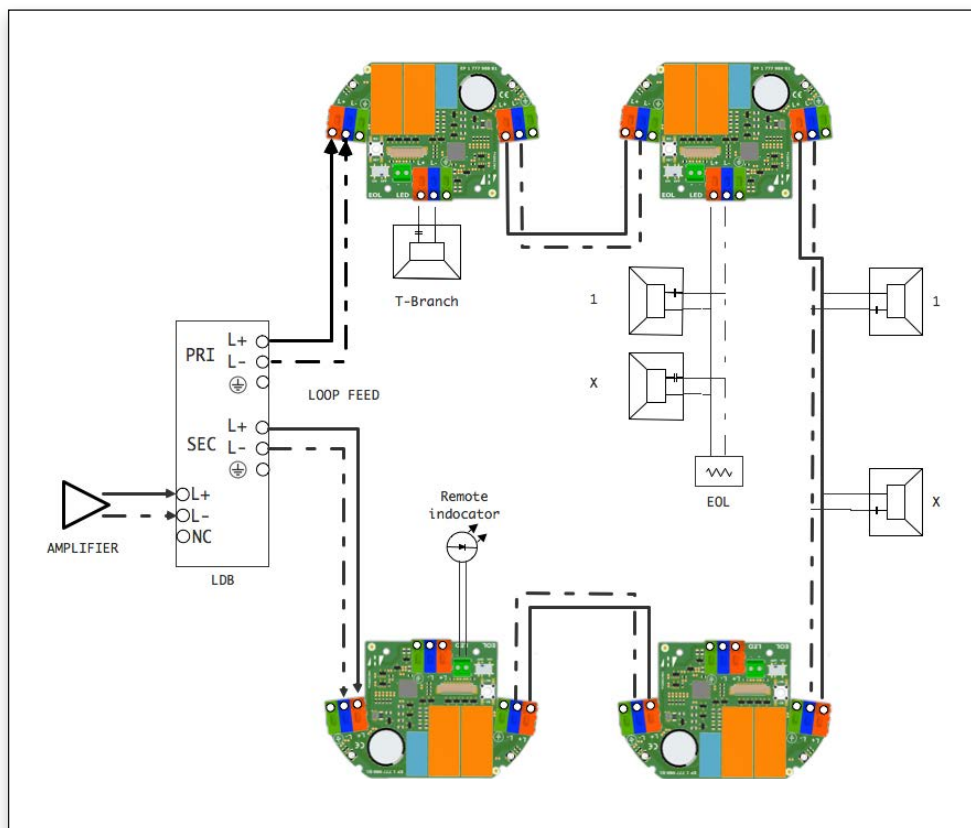
The TRT-200A is equipped with clearly market connectors. It has a LOOP-FEED and LOOP-RETURN connection that are not sensitive for feeding direction. LOOP has a DC-carrier for charging and communication purpose.

Please observe correct connectivity:

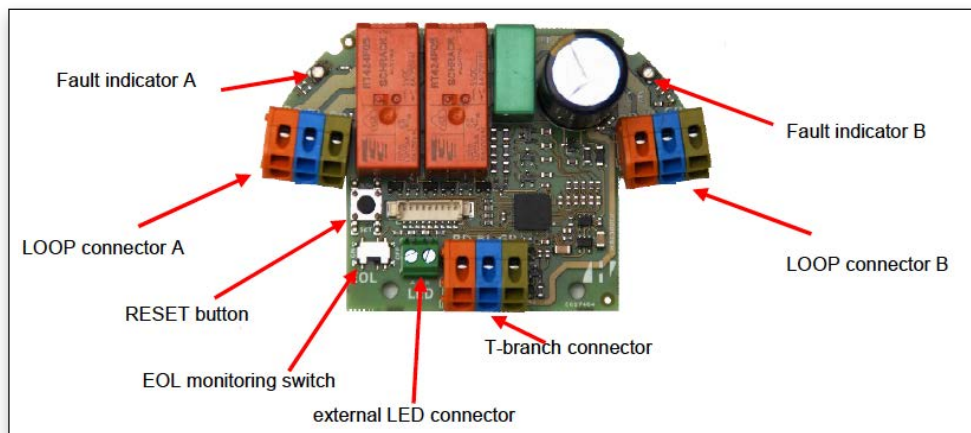
RED = PHASE / PLUS

BLUE = ZERO / MINUS

GREEN = GROUND (If applicable)



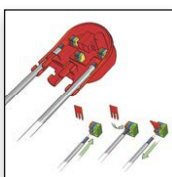
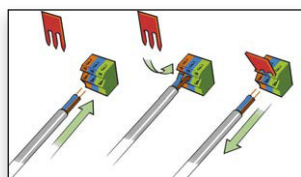
NOTE: The maximum number of loudspeakers between TRT-200A's is not limited within the maximum LOOP-load of 800W, however, national standards may limit the amount of loudspeakers between Isolators. Earth connector is available for optional earth-wire loop detection.



The TRT-200A is equipped with a power capacitor that is charged by the LDB and has enough capacity to run at least two measurement cycles without the need for re-charging. The LED indicator(s) on the TRT-200A are flashing with intervals to indicate quiescent or fault condition. The TRT-200A has a RESET button and EOL-enable switch. Please refer to the User and Installation manual for detailed information.

The maximum number of loudspeakers between any two TRT-200A's is restricted by the maximum loop-load of 800W. National standards might call for restrictions. The T-Branch has a load limit of 50W. If multiple loudspeakers are connected to the T-branch, the EOL switch need to be set on: ENABLE and a EOL resistor has to be applied.

The TRT-200A has two indicators that are related to the status of either LOOP-A or LOOP-B side (Loop feed). If both indicators are flashing alternately, the fault information is related to the T-Branch status. Please refer to the User and Installation manual for detailed information on the various indications of these indicators.



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-200 A
Electrical		
DC Power supply (from LDB)	19 - 30 VDC, nominal 30 VDC	
DC Power consumption		
Idle current	100 µA continuous	
Max. power consumption	20mW	
LOOP connection		
DC	30V	
AC Voltage	100Vrms	
Max. AC load	800W	
AC Frequency range	40Hz - 20kHz (-3dB)	
T-Branch output	50W / EOL = 47kOhm / 0,25W or higher	
Wiring	2-wire. Max. 2,5mm2 / Max. Loop length: 1000m	
Grounding	optional earth loop through third connection pin	
Loop relay contact rating	max. 250VAC / 8A (Dual state type)	
Loudspeaker type	only with DC-blocking capacitor	
Maximum # of loudspeakers		
Between two TRT's	Infinite within the maximum loop-load of 800W (National standard may limit the number of loudspeakers between TRT's)	
T-branch	Infinite within the maximum T-branch load of 50W (National standard may limit the number of loudspeakers)	
Detection	Short, wire-to-wire / Open T-Branch / Earth leakage T-Branch	
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-200 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 - 0560-CPR-142190002	
European patent	EP 0967833B1	