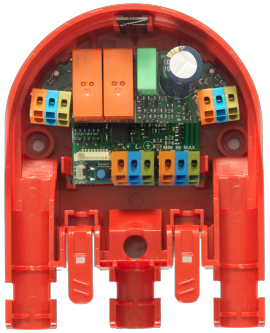
DC Power supply (from LDB)	19 - 30 VDC, nominal 30 VDC
Volume override (from VACIE)	20kHz fade-in: 0,3s / fade-out: 1,s Default threshold: 5Vac Adjustable Threshold range: 3 - 17Vac
DC Power consumption	
idle current	100 µA continious
max. power consumption	20mW
LOOP connection	
DC	30V
AC Voltage	100Vrms
max. AC load	800W
AC Frequency range	40Hz - 20kHz (-3dB)
Wiring Loop	2-wire. Max. 2,5mm2 / Max. Loop length: 1000m
T-Branch output	
Load / EOL	50W / EOL = 47kOhm / 0,25W or higher
Detection	Short, wire-to-wire / Open T-Branch / Earth leakage T-Branch
Volumecontroller	50W / 3-wire. Max. 2,5mm2 / Max. length: 50m
Grounding	optional earth loop through third connection pin
Loudspeaker type	only with DC-blocking capacitor
Maximum # of loudspeakers	
between FIM-VC and FIM	NO speakers are allowed between any FIM-VC and FIM
T-branch	Infinite within the maximum T-branch load of 50W (National standard may limit the number of loudspeakers)
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.	
FIM-VC	1x IP21 housing with transparent cover and PCB
	1 x release tool / 1 x compression gland for speaker mounting
	1x 50W volumecontroller
Certification and Approvals	
EN54-18 Input- and Output devices	0560-CPR-182190004-00

Detect - Locate - Isolate

FIM-QIG - V02R01 - Quickguide

LOOPDRIVE

Field Isolator Module - FIM-VC



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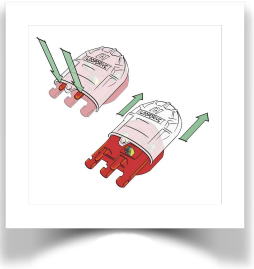
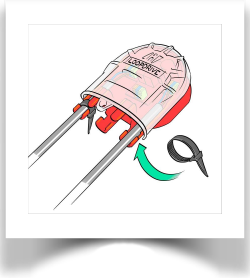




The FIM-VC is a T-branch field-isolator-module with integrated volumecontrol for the T-branch speaker load. A pilot-tone send over the speaker line will force the FIM-VC into 'override' mode forcing the attached volumecontrole to switch to MAX. audio level. Any local music source connected to the FIM-VC through the AUX input will mute.
The FIM-VC comes with a 11-step wall-controller. 0-9 / MAX / AUX
The FIM-VC volume controller is equipped with an AUX entry for a local audio source that overrides by paging and emergencies

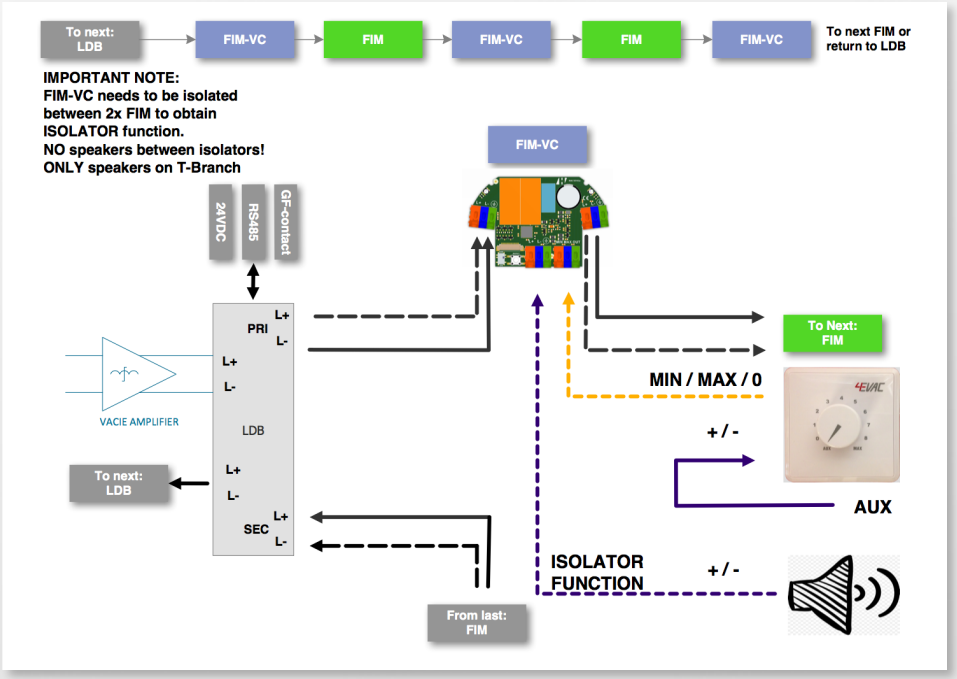
Note:The FIM-VC needs to be placed in-between FIM to ensure full isolator function on the MAIN loop. The T-Branch is secured and isolates on T-branch cable failure.

LOOPDRIVE

Field Isolator Module - FIM-VC

The FIM-VC is equipped with clearly market connectors. The FIM-VC 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:

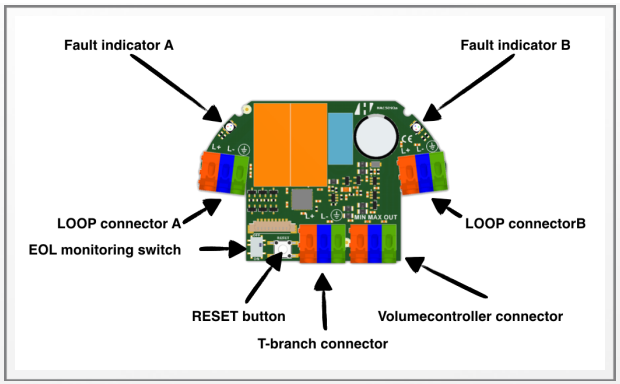
RED = PHASE / PLUS
BLUE = ZERO / MINUS
GREEN = GROUND (If applicable)

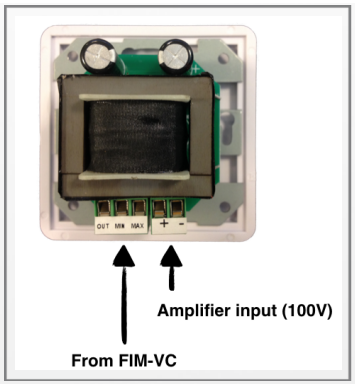


NOTE:
Any FIM-VC needs to be secured by a FIM-01 at each side. No speakers may be installed using the main Loop between any FIM-VC and FIM.
The T-Branch load is maximised to 50W. The FIM-VC' external controller has a **3-wire cable** with a maximum length of 50m.
The OVERRIDE signal must be send together with any emergency message. The override signal must be: 20kHz / 5Vrms (by default)

Detect - Locate - Isolate

FIM-QIG - V02R01 - Quickguide





The FIM-VC needs a **3-wire cable output that connects to the FIM-VC's remote volumecontroller** with a power handling of maximum 50W The FIM-VC's Volumecontroller has a separate AUX input for an external 100V amplifier. A local source is automatically override when emergency paging from the VACIE is applied. Same override function is applied when the volume controller is set to any other position than: MAX.

General FIM-VC isolator function on T-Branch only:
The FIM 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 FIM-VC are flashing with intervals to indicate quiescent or fault condition. The FIM-VC has a RESET button and EOL-enable switch. 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.
P*lease refer to the User and Installation manual for detailed information.*
No loudspeakers are allowed between FIM-VC and FIM-01 on the main loop.
Detailed information on the various indications of the indicators are explained in the Installation manual.

Trigger threshold adjustment:

Holding the reset button for 10-sec will force the FIM-VC in measurement state. (Fast blinking) In this state it measures any HF signal on the line (>16kHz) and sets it trigger threshold 2Vac above measured HF signal.

Confirmation of new setting: Alternate blinking of indicators BLUE (5s-Fast).
Rejection of new setting: Alternate blinking of indicators: ORANGE (5s-Fast
Activation at Threshold: Alternate blinking of indicators BLUE Slow

WAGO-quick-fit
The FIM is equipped with WAGO push-terminals that accept up to 2,5 mm_2 core installation cable. A special tool is provided to quickly remove all three wires in one run. (Release-tool is included)