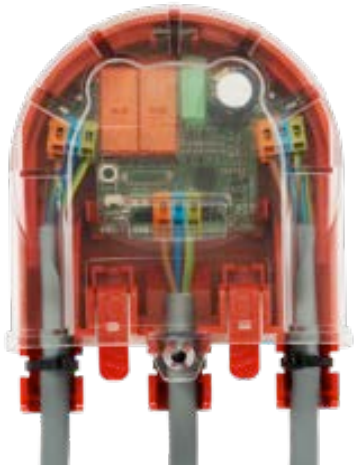
ELECTRICAL	
DC Power supply (from LDB)	19 - 30 VDC, nominal 30 VDC
DC Power consumption	
idle current	100 µA continious
max. power consumption	20mW
LOOP connection	
DC	30V
AC Voltage	100Vrms
max. AC load	800W
AC Frequency range	40Hz - 20kHz (-3dB)
T-Branch output	50W / EOL = 47kOhm / 0,25W or higher
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 FIM's	Infinite within the maximum loop-load of 800W (National standard may limit the number of loudspeakers between FIM'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.	
FIM-01	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

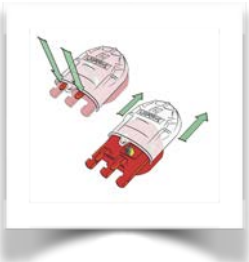
Detect - Locate - Isolate

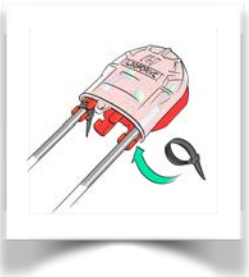
FIM-QIG - V01R02
Quickguide

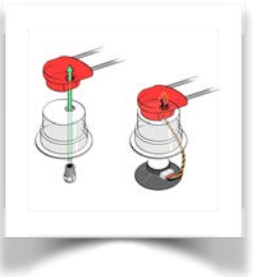
LOOPDRIVE

Field Isolator Module - FIM









The Loopdrive - Fault Isolator Module (FIM) 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.

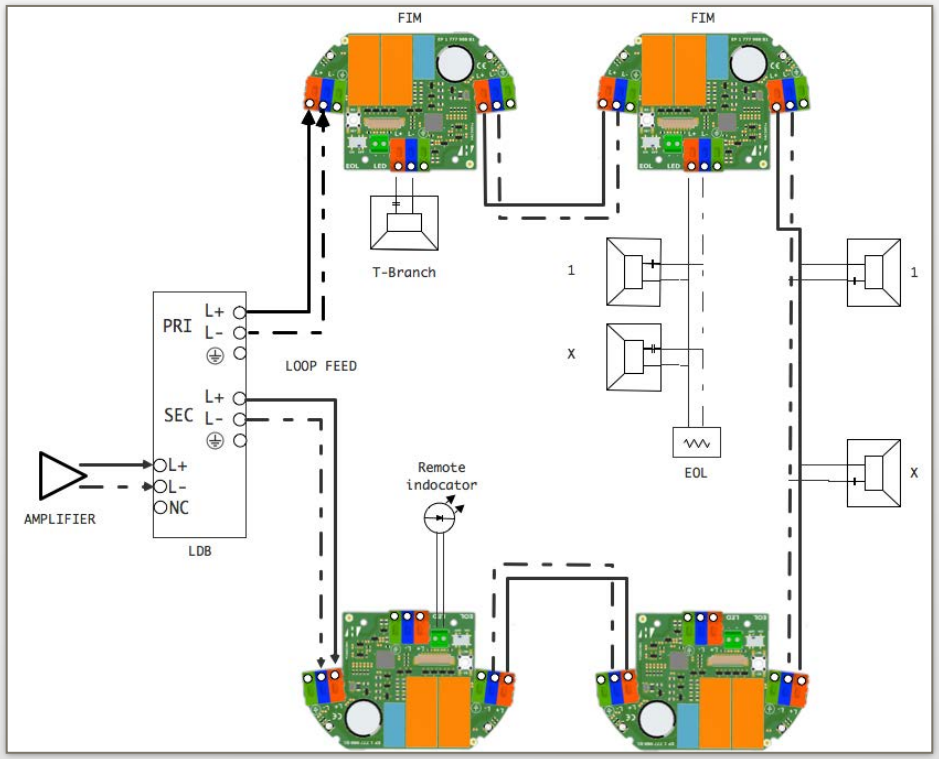
A loudspeaker failure in a faulty section between any two FIM's in the loop is automatically detected and isolated in order to ensure maximum availability of the remaining loudspeakers on that same loop. The FIM protects the loop integrity against any wire-to-wire short circuit and detects open line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

LOOPDRIVE

Field Isolator Module - FIM

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

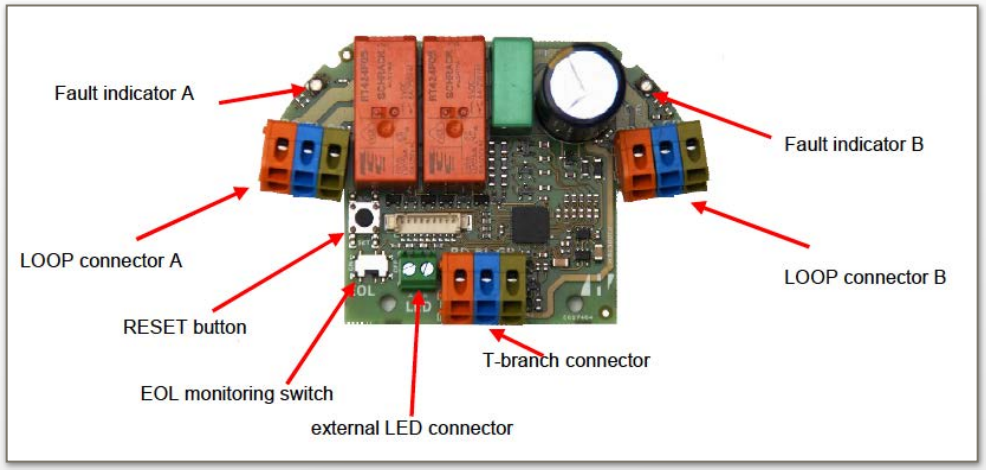
RED = PHASE / PLUS
BLUE = ZERO / MINUS
GREEN = GROUND (If applicable)



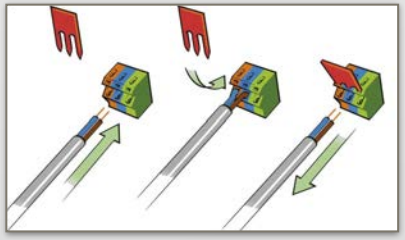
NOTE:
The maximum number of loudspeakers between FIM's is not limited within the maximum LOOP-load of 800W, however, National standards may limit the amount of loudspeakers between Isolators.
Earth connector is available for optional earth-wire loop detection.

Detect - Locate - Isolate

FIM-QIG - V01R02
Quickguide



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 are flashing with intervals to indicate quiescent or fault condition. The FIM has a RESET button and EOL-enable switch. Please refer to the User and Installation manual V01R01 for detailed information.
The maximum number of loudspeakers between any two FIM'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 FIM 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 V01R01 for detailed information on the various indications of these indicators.



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)