Loop Isolator Module LIM



Part-No.: 585342
Approval: EN 54-16

Loop Isolator Module to install a short-circuit and open-circuit tolerant 100 V loudspeaker loop wiring system in VARIODYN ONE loop technology. The modules monitor the current on the loudspeaker ring and disconnect in case of over-current, e.g. in the case of short-circuit, the defective part of the ring from the rest. Loop failures are displayed on INC and PACT. Each module has a total of three two-pole terminals to connect the loop wiring system and the speakers. Wires can be connected with a section of up to 2.5 mm² to the terminals. Furthermore, tree LED of its operating condition are present on each module. The Loop Isolator module is housed in a stable, compact IP 65 housing with more of wiring space and it can be use in projects with difficult environmental condition, e.g. industrial use.

Loop Isolator Module

Power	24 V DC
Current	1 mA (fast charge current 10 mA max.)
Type of protection	IP 66 (housing)
Maximum line voltage	100 Vrms AC or 30 V DC
Minimum line voltage (without a short circuit or partial short circuit fault)	20 V DC
Maximum rated continuous current with the switch closed (IC max)	5 A
Maximum rated switching current (under short circuit) (IS max)	5 A

maximum series impedance with the switch closed (ZC max)	< 100 mΩ
Threshold for LIM Enablement	Line voltage difference < 1 V
Threshold for LIM Disablement	Line voltage difference > 1 V and reset signal is received
Dimension (W x H x D)	114 x 114 x 57 mm
Weight	130 g
Relative humidity	<95%, non condensing
Operation temperature	-5 °C ... +55 °C
Storage temperature	-40 °C ... +70 °C

Please consider that the amplifier 4XD125B (585030) and 4XD250B (585031) are not compatible with the loop technology!

Features:

- Increased safety compared to spur cabling
- Fully redundant 100 V loop wiring system technology
- Extensive topologies are possible
- Short-circuit and wire break tolerant
- EN 54-16 certified
- Large saving in wiring and installation

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