



LVMX100

NON-ADDRESSABLE SHORT CIRCUIT ISOLATOR MODULE

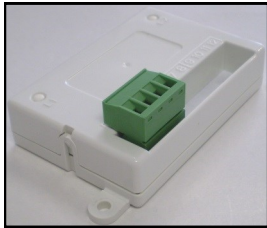


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GENERAL DESCRIPTION

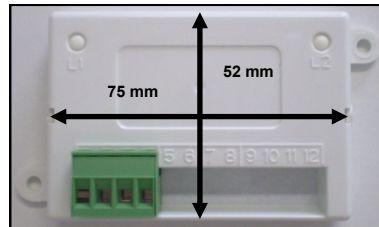
The Vega isolator module is a device designed to provide short circuit isolation features for analogue-intelligent loops carrying Vega Lite type detectors.

As any other Vega device, it operates with control panels using the Vega digital communication protocol which provides for high rates of information exchange in combination with particular features that ensure fast and secure responses.



Picture 1 - Isolator module's overview

Picture 2 - device's dimensions



TECHNICAL SPECIFICATIONS *

Loop's voltage range	from 15 V to 40 V
Standby current consumption	90 µA at 24 V
Maximum number of Vega Lite devices that can be "cut off" by the isolator module	32 units
Operating temperature range	from -10 °C to + 55 °C
Humidity	93 RH% at 40°C
Dimensions	75 x 52 x 28 mm (w/o brackets)
Weight	40 grams
Applicable wire gauge range	from 0.5 mm ² to 2.5 mm ²

Table 1

* For more information, check latest version of document TDS-LVMXX, obtainable from your supplier.

VEGA ISOLATOR MODULE: HOW IT WORKS

When activated, the isolator module will "cut out" the adjacent loop's section where the short occurred; on the other hand, all functions of the devices situated on opposite loop's section of the module will be unaffected and operate normally.

When the short is removed, the module restores power to the isolated loop's section and its devices.

From a practical point of view, this device can be used as in figure 3, where a certain number of Vega Lite detectors are installed on a loop's section, closed, on its extremities, by two isolator modules. If a short circuit occurs, this section is isolated, and the remainder of the loop continues to operate normally.

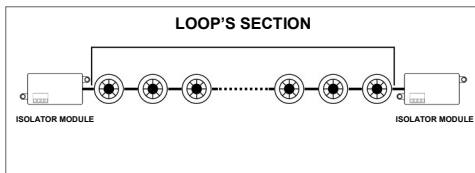


Figure 3 - a loop section limited by two Vega isolator modules

VEGA ISOLATOR MODULE: IMPORTANT NOTE

Remember that exists a maximum number of Vega Lite devices that can be isolated by an isolator module: see the specifications table; nevertheless take care of the fact that national or international installation regulations may instruct the fire system's installer to design and deploy loop's isolable segments carrying a number of Vega Lite devices minor to the specified maximum technical limit.

LED INDICATOR

No LED indicators exist for the Vega isolator module.

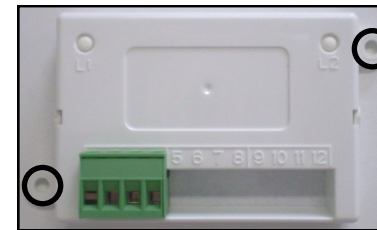
ADDRESSING

The Vega isolator module is a passive device, so, as distinct from all other Vega devices, is not addressable and does not need to be addressed.

INSTALLING THE DEVICE

For specific information regarding detector and device's spacing, placement and special applications refer to your specific national standards.

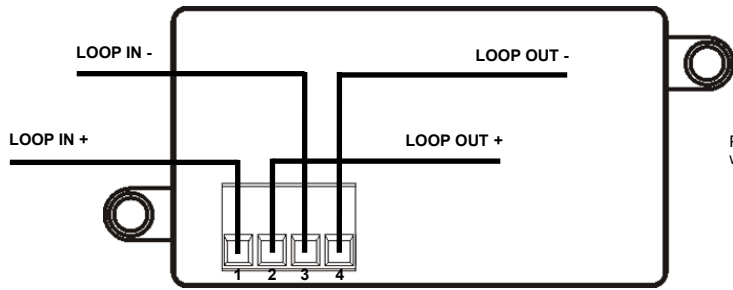
1. Select the position of the isolator module before installing and fixing it.
2. Install and fix to the wall the device with the provided screws (see picture 4).
3. Connect the device to the Vega loop as specified in the WIRING THE ISOLATOR MODULE paragraph.



Picture 4 - locations for screw insertion on the isolator module

WIRING THE ISOLATOR MODULE

The Vega isolator module, as any other analogue device, must be connected to the analogue loop. Refer to picture 5 for wiring indications to the device's terminal blocks.



Picture 5 - isolator module's wiring to the loop

CAUTION

Disconnect loop power before installing the isolator modules.



CAUTION

Electrostatic Sensitive Device.

Observe precautions when handling and making connections.

TESTING

In order to test the functionality of the installed isolator module (or modules, since two modules can delimit a specific section), the following test must be performed: generate a short circuit on the delimited loop's section; if the devices of the short-circuit section are "cut-off" from the polled loop this means that the module (or modules) works.

After the test remove physically the short.

To reset normal condition refer to the control panel's specific instructions and procedure. There is no need to reset the isolator module, since it does so automatically by itself after the short is actually removed.

All devices must be tested after installation and, successively, on a periodic basis.

WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation. Smoke detectors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Detectors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

WARRANTY

All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and product's returns policy can be obtained upon request.



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Low voltage directive 72/23/EEC

For use in compatible fire detection and alarm system