Xtralis VESDA VLF MCC



The Xtralis VESDA VLF MCC (Multi-function Control Card) is an interface card for the range of Xtralis VESDA VLF smoke detectors. An MCC expands the range of input and output communications a VLF can perform.

Why use a VLF MCC?

Installing a VLF MCC into a VLF detector provides a cost-effective solution for customers who need enhanced connectivity, fault detection and monitoring, and annunciation of alarms and faults. The principal benefits include:

Improved FACP connectivity

The VLF is fitted with two (2) alarm relays in its standard form. With an extra two (2) relays, the Multi-function Control Card allows reporting of all four (4) alarm levels on dry relay outputs.

Enhanced annunciation

An MPO (Monitored 24 V Powered Output) is available on the VIC-030 version of the card. The MPO provides power to devices such as sirens or strobes, and monitors the line integrity.

Enhanced control and fault detection

With a VLF MCC installed, a VLF has two (2) General Purpose Inputs (GPIs), allowing, for example, one GPI to report on loss of mains power and the other GPI to be used as a reset input.

The VIC-030 version of the card has a self-configuring GPI, depending on the jumper selection for MPO/Relay3.

- If MPO is selected, activation of the GPI will disable the MPO.
- If Relay3 is selected, the GPI will be set to External Fault (e.g. for mains power supply monitoring).

VIC-020 & VIC-030

Features

VIC-020

- · Provides two (2) additional relays
- Provides an extra General Purpose Input (GPI) with line monitoring
- · Quick and simple to install
- Out-of-the-box operation, with minimal configuration required for extra features
- Diagnostic LEDs give visual indication of the card's status
- Fully compatible with Xtralis VESDA VLF smoke detectors

VIC-030

- As above, plus:
- Selection between 3rd relay or 24 V Monitored Powered Output (MPO)



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Specifications

Dimensions

Length x Width x Height 110 mm (41/3") x 70 mm (2 3/4") x 20 mm (13/16")

Weight 0.08 kg (0.176 lb)

Terminals 0.2 - 2.5 mm2 (30-12 AWG)

Electrical Ratings

Power consumption 1 W from the detector at 24 VDC (less than 42 mA)

Relay outputs 2 A at 30 VDC 24 VDC (VIC-030 only) MPO input power supply

100 mA more than MPO output load (VIC-030 only) MPO input current

1 A (maximum) (VIC-030 only) MPO output current

End of line resistor (MPO & GPI) 2 7K Ohm

Operating Conditions

Detector ambient temperature 0 to 40°C (32 to 104°F) 5% to 95% (non-condensing)

Humidity

Detector Compatibility Supports VLF-250 and VLF-500

Product Warranty

2 years

Input/Output Assignments

VIC-020

Output for Relay 1: ALERT (follows latching configuration of VLF ALERT status) Output for Relay 2: FIRE-2 (follows latching configuration of VLF FIRE-2 status)

Input for GPI:

GPI reports status on following conditions:

- EOL > No fault

- Short > Fault # 115/IFF6 - O/C > Fault # 111/IFF8

VIC-030

MPO:

Output for Relay 1: **ALERT** (follows latching configuration of VLF ALERT status) FIRE-2 (follows latching configuration of VLF FIRE-2 status) Output for Relay 2:

ALERT (unless disabled) (follows latching configuration of

VLF ALERT status) Jumper configuration • J9 • J10

GPI for MPO: **Disable MPO**

MPO status is driven as follows:

- EOL > MPO enabled

- Short > MPO disabled*

- O/C > MPO enabled and Fault # 111/IFF8

DISABLED or **STANDBY** (follows VLF DISABLED or STANDBY status) Output for Relay 3:

Jumper configuration

.19 • • • J10 **FAULT**

GPI for Relay 3:

GPI reports status on following conditions:

- EOL > No fault

- Short >Fault # 115/IFF6

- O/C > Fault # 111/IFF8

* The MPO is disabled if there is a short on the GPI.

VIC-020 & VIC-030

Terminal Block Connections

GPI+
GPI-
NO1
COM1
NC1
NO2
COM2
NC2
NO3 / MPO+ ¹
COM3 / MPO - 1
NC3 / 0VDC ¹
MPO 24VDC ¹

Visual Status Indicators

Diagnostic LEDs indicate:

- · power to the MCC
- power to the MPO (VIC-030 only)
- · relay activated state
- MPO activated state (VIC-030 only)
- · MPO power and line fault (VIC-030 only)
- · internal communications status
- · GPI state
- · GPI line fault

Ordering Information

Product Part number Xtralis VESDA VLF MCC VIC-020

Xtralis VESDA VLF MCC

with MPO VIC-030

Includes: control card, interface cable, single screw, field wiring connectors and end of line resistor(s) (one resistor for VIC-020 or two resistors for VIC-030).

www.xtralis.com

The Americas +1 781 740 2223 Asia +852 2916 8894 Australia and New Zealand +61 3 9936 7000 Continental Europe +32 56 24 1951 UK and the Middle East +44 1442 242 330

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¹ available only on VIC-030