# VESDA VLF MCC

# VIC-020 & VIC-030



The 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 detector 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).

#### **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)



# VESDA VLF MCC

## **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** 

Tested to -10 to 55°C (14 to 131°F) Detector ambient temperature 0 to 40°C (32 to 104°F) Humidity 5% to 95% (non-condensing)

**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: **FAULT** 

GPI reports status on following conditions:

- EOL > No fault

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

VIC-030

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:

MPO: ALERT (unless disabled) (follows latching configuration of

VLF ALERT status) **dumper** configuration • • • J9 J10

**Disable MPO** GPI for MPO:

MPO status is driven as follows:

- EOL > MPO enabled - Short > MPO disabled\*

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

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

Jumper configuration • • J9 J10

GPI for Relay 3: **FAULT** 

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**

0	GPI+
Ø	GPI-
0	NO1
Ø	COM1
0	NC1
0	NO2
0	COM2
0	NC2
0	NO3 / MPO+ <sup>1</sup>
0	COM3 / MPO - 1
9	NC3 / 0VDC <sup>1</sup>
9	MPO 24VDC <sup>1</sup>
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## 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 VESDA VLF MCC VIC-020

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).

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<sup>1</sup> available only on VIC-030