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)



VESDA®

Xtralis. VESDA VLF MCC

Specifications

Dimensions

Length x Width x Height Weight Terminals

Electrical Ratings

Power consumption Relay outputs MPO input power supply MPO input current MPO output current End of line resistor (MPO & GPI)

Operating Conditions

Detector ambient temperature 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: Input for GPI:	FIRE-2 (follows latching configuration of VLF FIRE-2 status) 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)
Output for Relay 2:	FIRE-2 (follows latching configuration of VLF FIRE-2 status)
MPO:	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
Output for Relay 3:	DISABLED or STANDBY (follows VLF DISABLED or STANDBY status)
	Jumper configuration
CDI for Doloy 2:	●● 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.

110 mm (41/3") x 70 mm (2 3/4") x 20 mm (13/16") 0.08 kg (0.176 lb) 0.2 - 2.5 mm² (30-12 AWG)

1 W from the detector at 24 VDC (less than 42 mA) 2 A at 30 VDC 24 VDC (VIC-030 only) 100 mA more than MPO output load (VIC-030 only) 1 A (maximum) (VIC-030 only) 2.7K Ohm

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

VIC-020 & VIC-030

Terminal Block Connections

\odot	GPI+	
0	GPI-	
0	NO1	
0	COM1	
0	NC1	
ø	NO2	
0	COM2	
\otimes	NC2	
\otimes	NO3 / MPO+ 1	
\otimes	COM3 / MPO - 1	
9	NC3 / 0VDC 1	
\odot	MPO 24VDC 1	
¹ available only on VIC-030		

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)

Part number

VIC-020 VIC-030

- · internal communications status
- · GPI state
- · GPI line fault

Ordering Information

Product Xtralis VESDA VLF MCC Xtralis VESDA VLF MCC 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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