



Publish date: 2022-02-18

Page 1 of 4

Originator	СоЕ	Distribution	External
Product	Fireray One	Component	
Hardware		Firmware	

Fireray One System Compatibility Requirements

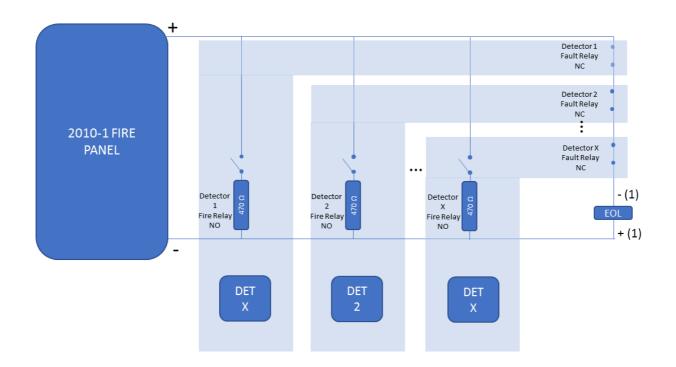
Purpose

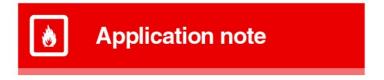
This document describes the interface requirements between the Fireray One beam detector and other Carrier fire products.

Please refer to the beam installation manual for guidance in EOL and fire resistor connections.

Applications

1. Connection to 1X, KFP-C and ZP1 Conventional Fire Panels





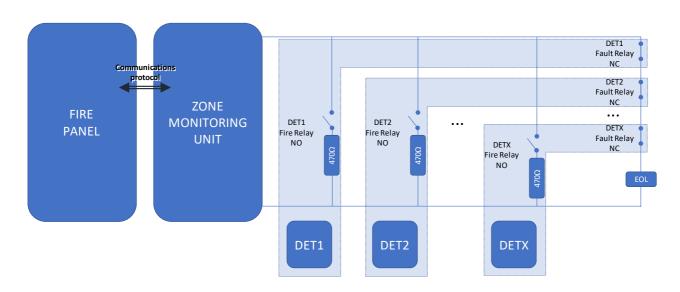


Rev. 1.1 Publish date: 2022-02-18

Page 2 of 4

Fire Panel	Zone configuration	End-of-line device
2010-1	EN54-13	EOL-Zener (1N5248) (1) Zener polarity
2010-1	Standard	4.7ΚΩ
2010-1	BS5839-1	Active EOL

2. Connection to Aritech, Ziton and Kilsen addressable Zone Monitoring Units



Zone Monitoring Unit	End-of-line device
IU2055NC	3.9ΚΩ
A70E-2	3.9ΚΩ
KAL710C	4.7ΚΩ
KAL714C	4.7ΚΩ

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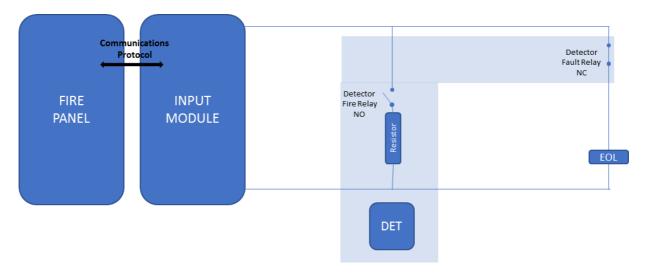




Rev. 1.1 Publish date: 2022-02-18

Page 3 of 4

3. Connection to Aritech, Ziton and Kilsen addressable Input Modules



Input Module	End-of-line device	Alarm resistor
IU2050NC	150ΚΩ	-
IO2034NC	150ΚΩ	33ΚΩ
A45E-2	3.9ΚΩ	1.2ΚΩ
KAL760	270ΚΩ	100KΩ (pre-alarm) 39KΩ (alarm)

NOTE:

- No more than one beam detector should be connected to a single input device.
- The input on each module should be configured as a detector.





Rev. 1.1 Publish date: 2022-02-18

Page 4 of 4

4. Detector Power Supply requirements

- The conventional beam detector cannot be powered from the loop.
- The detector power-supply must drop the voltage on a Fire Panel reset to restore the Detectors Latched Alarms & Faults. This can be achieved by special panel connections that power down supply on a user reset, or by connecting some panel or device output to control the detector supply. Power should be removed from the beam for at least 10 seconds to reset it as specified in the beam installation manual.
- The detector must be able to operate correctly after recovering power with no loss of configuration or functionality, and if an alarm or a fault reoccurs the contacts need to be activated again
- Recommended an auxiliary button to power down/up detectors before panel reset.
- The detector should be configured for 'latched' outputs.
- The detector power supply should be EN54-4 approved.

5. System Compatibility

		Alarm and Fault contacts
Fire Panel	2010-1	
	IU2055NC	LATCHED Approved with on-site programming/wiring for power cycle after reset
Zana Manitavina Unita	A70E-2	
Zone Monitoring Units	KAL710C	
	KAL714C	
	KAL760	
Input Modulo	A45E-2	
Input Module	IU2050NC	
	IO2034NC	