



Originator	CoE	Distribution	External
Product	Fireray One	Component	
Hardware		Firmware	

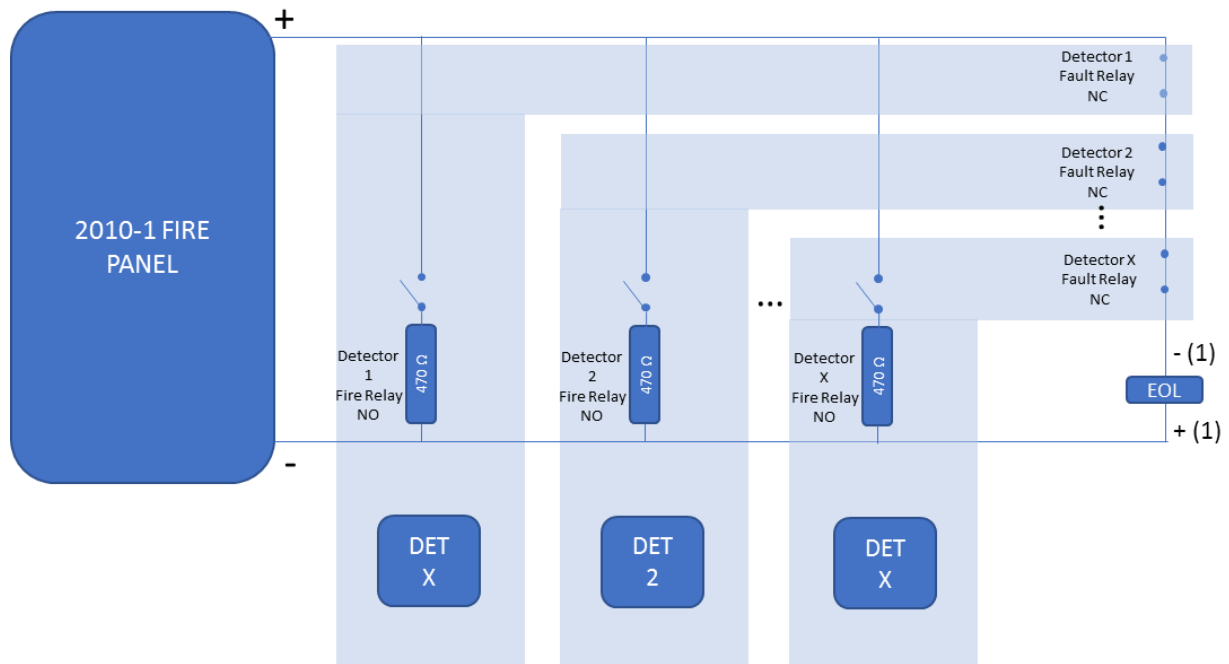
Fireray One System Compatibility Requirements

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

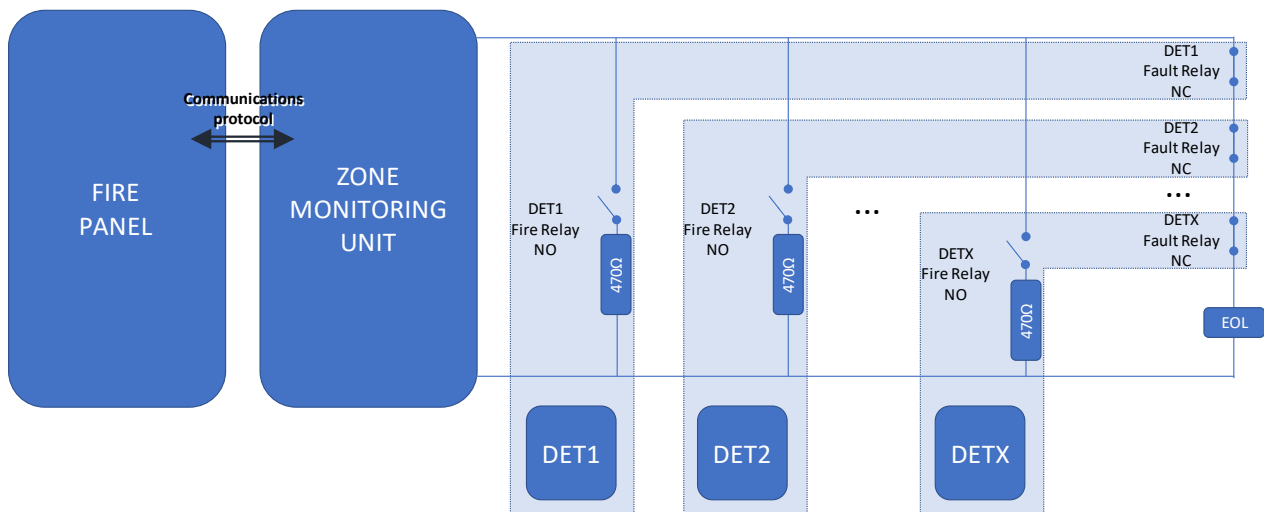
1. Connection to 1X, KFP-C and ZP1 Conventional Fire Panels





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

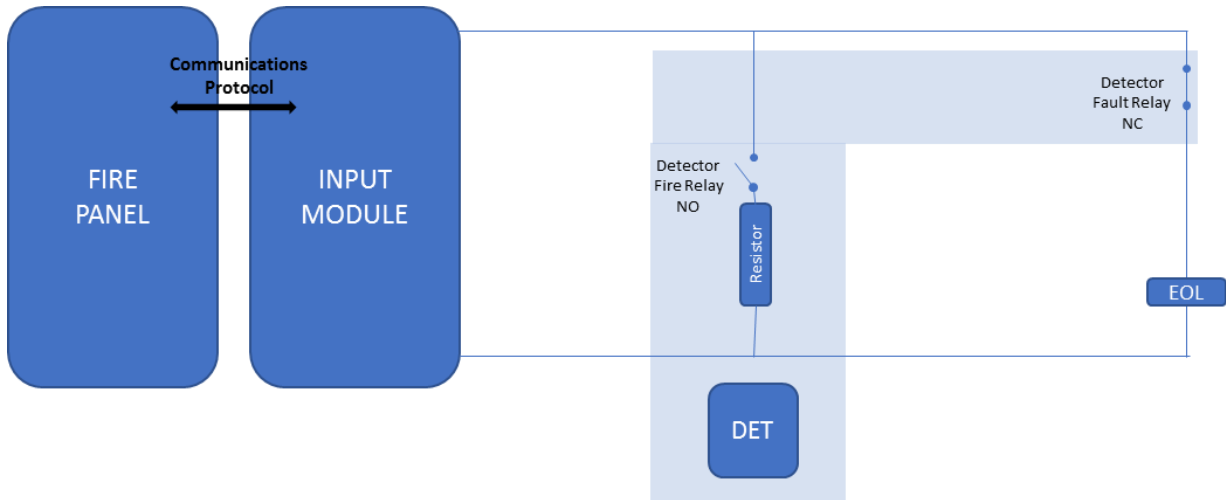
2. Connection to Aritech, Ziton and Kilsen addressable Zone Monitoring Units



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



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



Input Module	End-of-line device	Alarm resistor
IU2050NC	150KΩ	-
IO2034NC	150KΩ	33KΩ
A45E-2	3.9KΩ	1.2KΩ
KAL760	270KΩ	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.



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	<p>LATCHED Approved with on-site programming/wiring for power cycle after reset</p>
Zone Monitoring Units	IU2055NC	
	A70E-2	
	KAL710C	
	KAL714C	
Input Module	KAL760	
	A45E-2	
	IU2050NC	
	IO2034NC	