





SOLO FP

The SoloFP is a dual spectrum video flame detector which simultaneously processes visual and infrared feeds to recognise and detect fire. It is part of the Ciqurix CORE system, and uses the Ciqurix QLS protocol.

Designed to be used with a CORE Hub, it has punchdown cable termination and a cable entry gland suitable for "FP" fire resistant Cat 5e or Cat 6 data cable. Each Solo FP detector receives data and power through a single cable connected directly to the nearest CORE Hub.



FC-SFP-104

 55m 
FIRE DETECTION

65° 
horizontal
WIDE 4mm LENS

IP60 
INDOOR USE

FC-SFP-106

 100m 
FIRE DETECTION

46° 
horizontal
NARROW 6mm LENS

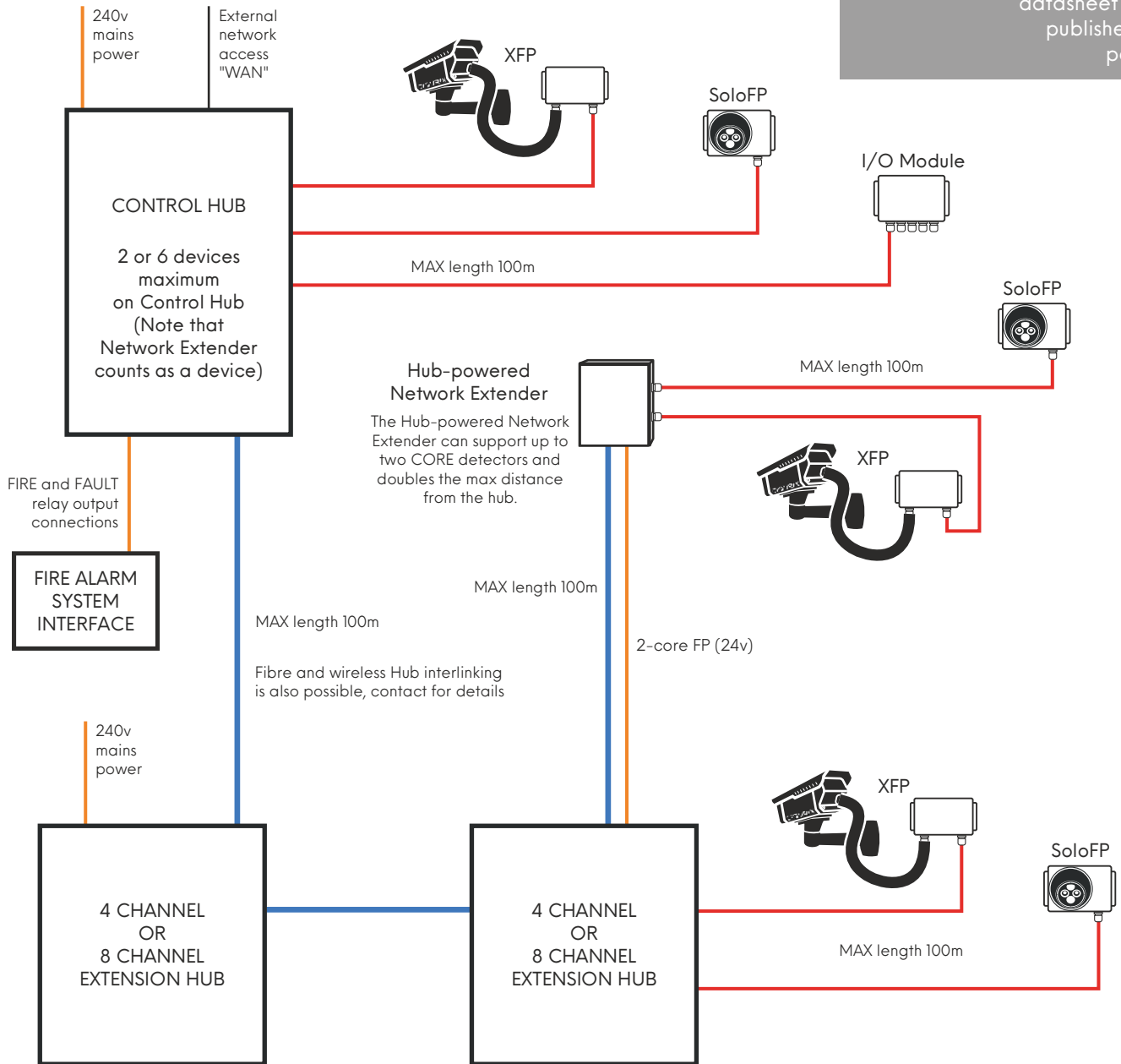
IP60 
INDOOR USE

When used with the MHBB / EHBB CORE hubs and wired in fire-rated cable, the FC-SFP is designed to meet the requirements of BS5839-1:2017 and can be used as primary or sole means of detection.

Layout

This is an indicative layout for guidance only. Every site is different; please contact Ciqurix for advice.

- Hublink - fire rated cat6 - data
- QLS - fire rated cat5e or cat6 - data/power
- Ancillary connections - standard "FP" 2 core



4 or 8 additional devices maximum per Ext Hub (depending on model).
Hubs can be connected directly to Control Hub or daisy-chained.

Each QLS field device is connected directly to a Hub using a fire rated 4-pair cat5e or cat6 data cable. Hubs are linked together using fire rated 4-pair cat6 data cable (fibre-optic and wireless linking is also possible). Hub-powered Network Extenders also require a fire rated 2-core dc power cable from a Hub.

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Dual Lens Technology



The SoloFP uses Ciqurix Dual Lens Technology to detect flame at an early stage.

The detector simultaneously processes live video and infrared video to look for fire. All the analytics and processing are done onboard the detector in real time. At the same time as processing the live video stream, a separate high definition near-infrared video sensor provides an infrared video stream to a separate analytics engine, also onboard the detector.

The analytics look at the colour, brightness, shape, flicker, movement and edge behaviour of potential flame, and compare this with previous images to spot developing fire.

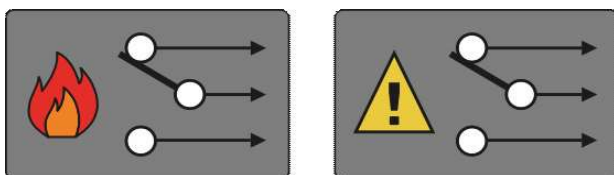
Because a visible fire also has to look like flame in the infrared spectrum, the detector can be extremely sensitive to fire and yet reject common causes of false alarms. The use of infra-red analytics means that the detector can detect flame in the dark, through smoke, and in fog - because the infrared feed is largely unaffected by these conditions.

Alarm Output

The Control Hub has a global fail-safe fault output and 4 programmable relay outputs. Each CORE Input/Output (I/O) Module has a further 4 programmable relay outputs.

Every relay is volt-free and changeover, and each can be linked to one detector, all detectors, or a group of detectors.

The CORE system is designed so the outputs can be easily connected to anything - fire alarm system, suppression, alarm sounder, remote communicator, etc. For example: when connecting to a fire alarm system you can program it to have all detectors on the same fire zone, or two detectors per zone, or a zone for each detector, simply by using more I/O Modules.



Video Feed

Each detector will appear to a Network Video Recorder (NVR) or Video Management System (VMS) as a standard IP cctv camera in RTSP format. This is almost universally compatible, and will work with every major manufacturer of video equipment. The SoloFP provides a full-res main stream at 30fps and a low-res sub stream at 5fps. Because all the analytics are done onboard the detector, the alarm crosshairs and location information is burned into the stream at source.

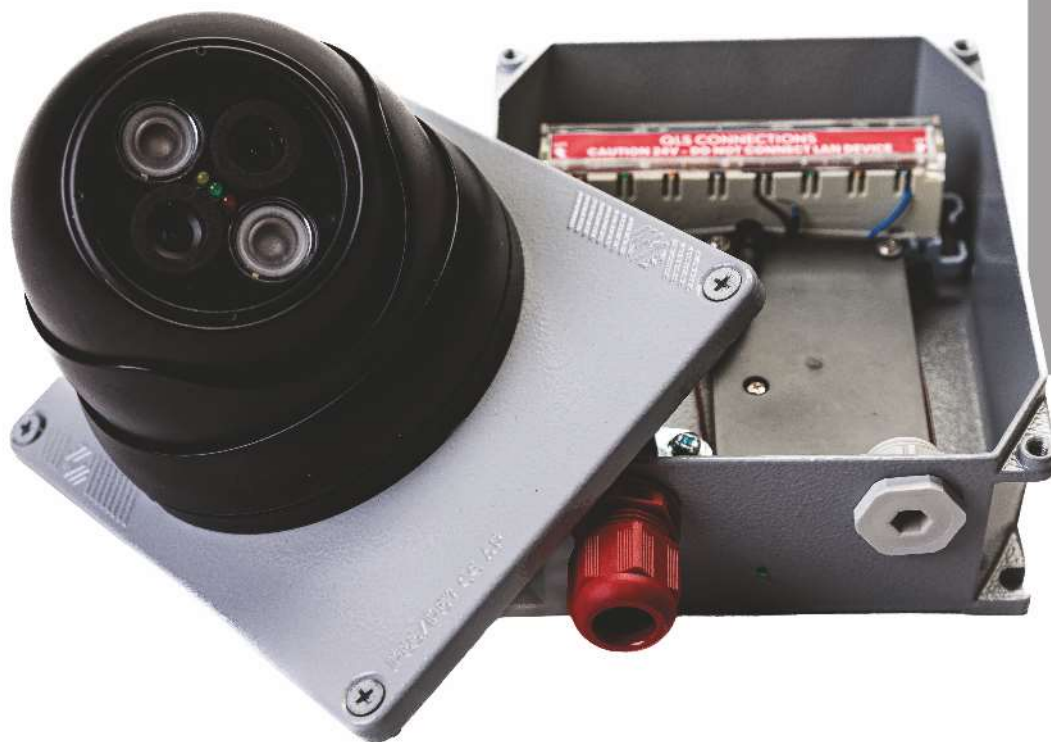
There is space in the Control Hub for a 3rd-party NVR to be added. The NVR must be dedicated to the CORE system and will not have visibility of any devices not on the CORE system, although it can be accessed remotely via the site network or internet in the same way as any other NVR.



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CIQURIX



Specification

	FC-SFP-104	FC-SFP-106
Detection distance:	1 - 65m	1 - 100m
Viewing angle:	65°(h) 36°(v)	46°(h) 25°(v)
Temperature:	-10°C to +50°C	
Detection time:	10 seconds (typical)	
Environmental:	IP60 96%RH	
Power:	9-36Vdc 4W (supplied from CORE Control Hub or Extension Hub)	
Cabling requirement:	1 x fire rated Cat5/5e/6 data cable from Control Hub or Extension Hub (carries data and power) Maximum distance from Hub depends on cable spec, typically 80m (Cat5), 100m (Cat6) Inline network extender available, see CT-NEFP-102	
Dimensions:	252mm (l) x 146mm (w) x 196mm (d)	
Weight:	2.1 Kg	
Alarm output:	Programmable fire and fault contacts located on CORE Control Hub or I/O Module	
Video output:	RTSP H.264 1280x720@30fps (Main) 320x240@5fps (Sub)	
Minimum light:	0 lux (20m IR provided for visual feed). Fire detection operates in 0 lux to max specified distance.	

