Fire Alarm Routing Equipment (FARE)

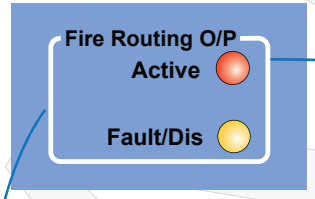
Vigilon panel

Compact panel

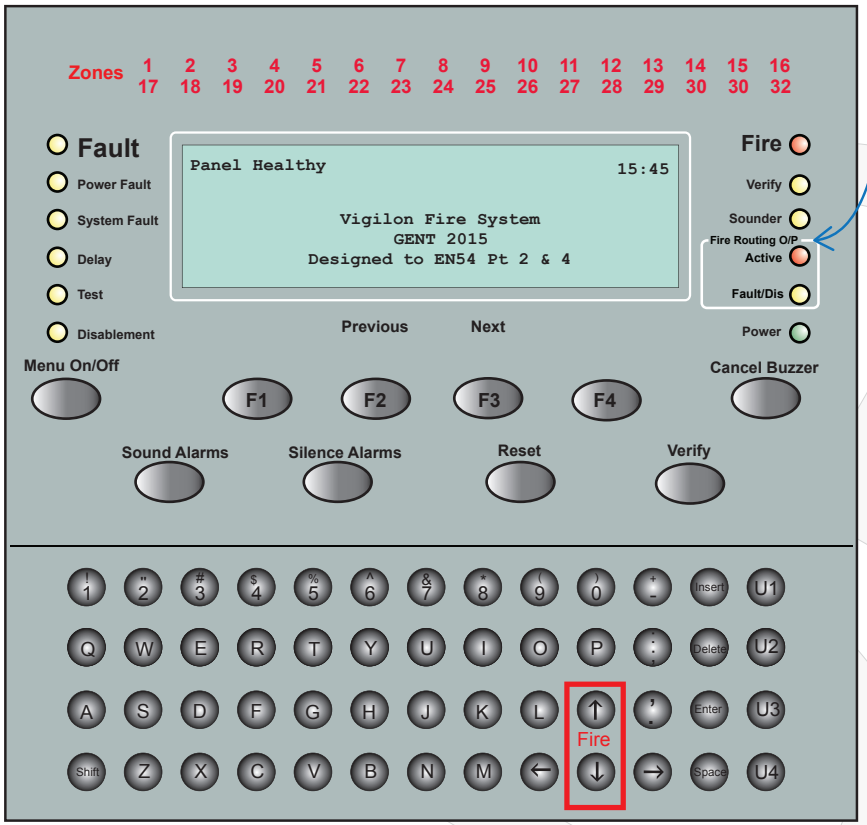
Repeat panel

Network Node

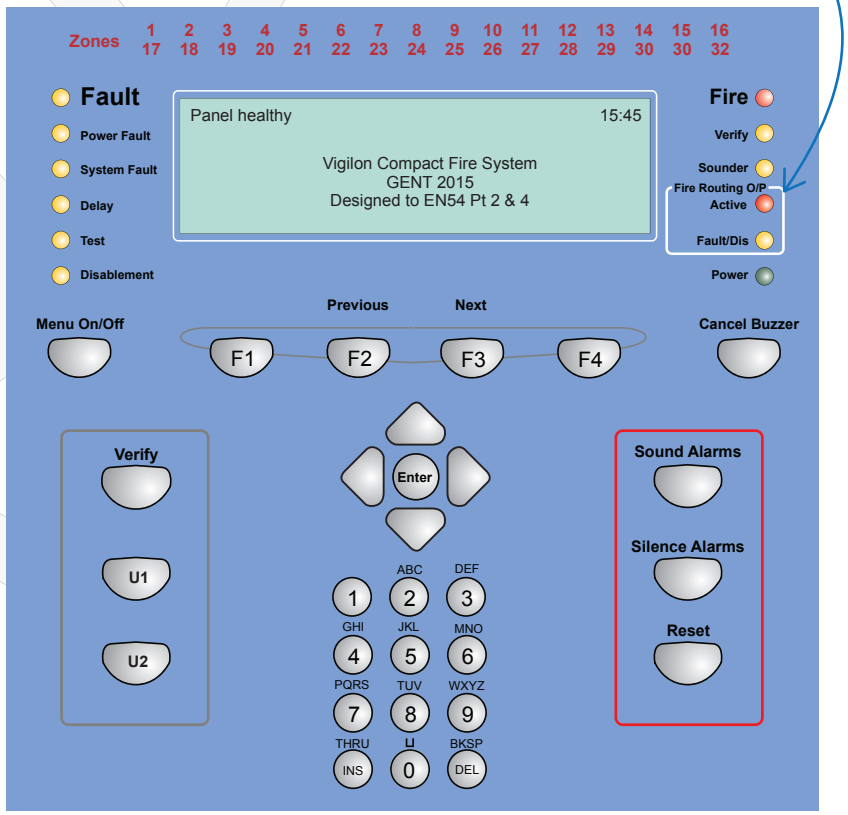
Compact node



EN Vigilon 4/6 loop panel, Network Node and Repeat panel



EN Vigilon Compact panel and Compact Node



EN54 information
Optional functions with requirements of European standard

The Vigilon panel complies with the requirements of EN54-2 : 1997. In addition to the basic requirements of the standard the panel conforms to the following optional clauses:

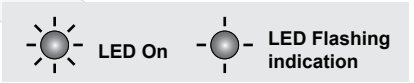
Fire Alarm Routing Equipment (FARE)

Clause Description
7.9 Control of FARE (options with requirements) sub clause:
7.9.1 Output to FARE

Fire Protection Equipment (FPE)

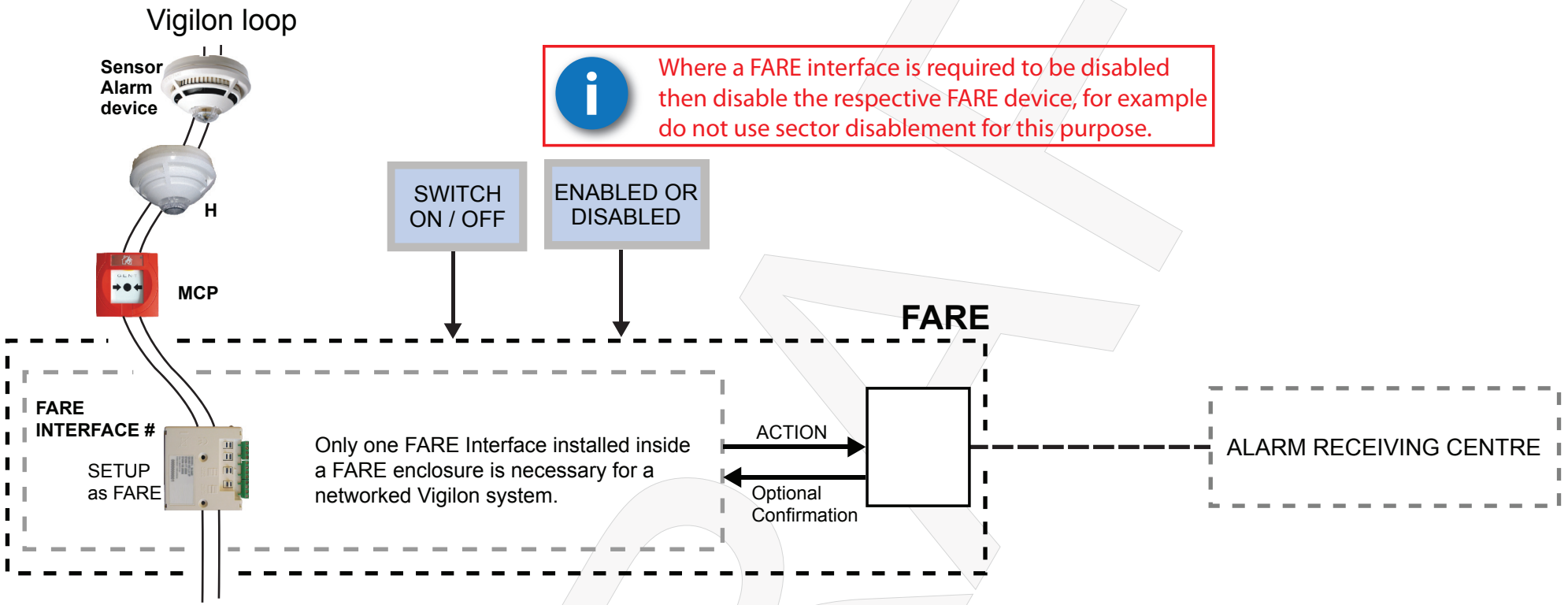
Clause Description
7.10 Output to FPE (options with requirements) sub clause:
7.10.1 Output Type A

Description of indications



	Indicators	*Description*
Fire Routing O/P	Fault/Dis (*Amber*)	*When illuminated steady (always with the FAULT light) it indicates that there is a fault at the Fire Alarm Routing Equipment).*
	Fault/Dis (*Amber*)	*When illuminated flashing (always with the DISABLEMENT light) it indicates the Output to Fire Alarm Routing Equipment is disabled.*
	Active (Red)	*When illuminated it indicates the Output to the Fire Alarm Routing Equipment is active.*

Fire Alarm Routing Equipment



FARE Interface can be a LV Interface unit S4-34420 as shown, but can also be a S4-34450.

Other interface units can be configured as FARE, these include S4-34440-02, S4-34440-12, S4-34401 or S4-34404

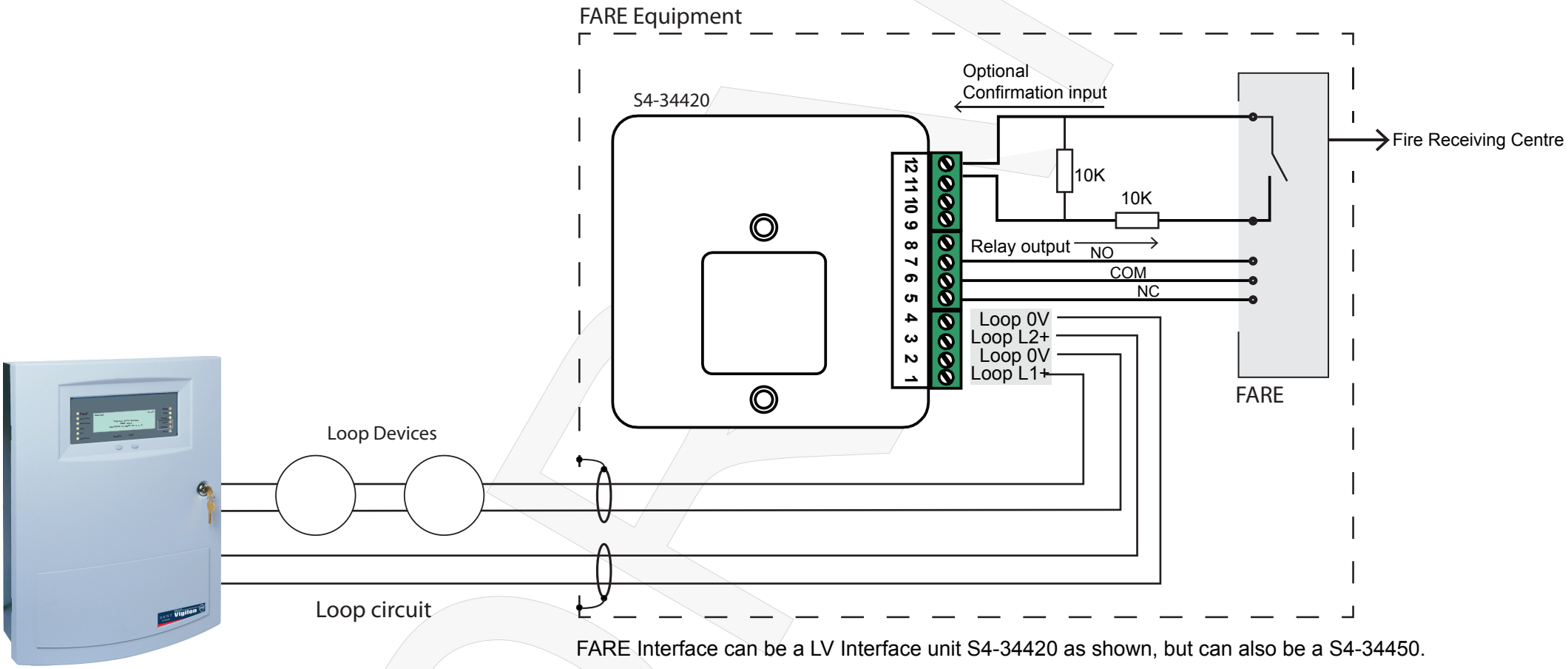
The optional confirmation input is advised, however is not part of this compliance certification.

Wiring Fire Alarm Routing Equipment

A standard interface unit can be configured for FARE application, its relay output is used to initiate an output to signal Fire Alarm Receiving centre in the event of fire detection in a connected Vigilon system.

The FARE Interface output is not and must not be affected by the SOUND ALARMS operation at any networked Vigilon panel, the output is affected by the RESET operation.

One FARE Interface is required to be installed inside a FARE enclosure for compliance.
Only one FARE interface is necessary in a networked Vigilon system.

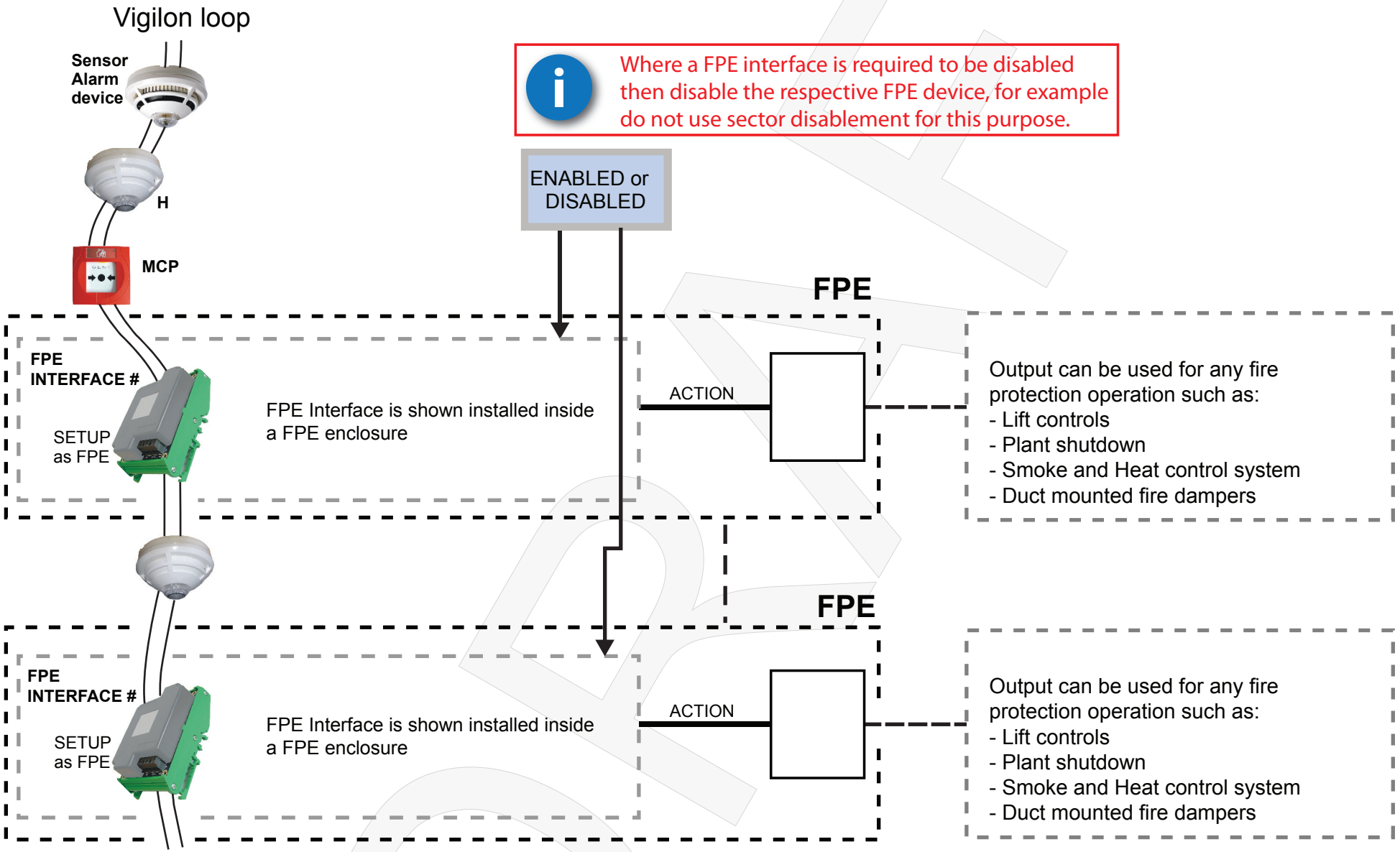


FARE Interface can be a LV Interface unit S4-34420 as shown, but can also be a S4-34450.

Other interface units can be configured as FARE, these include S4-34440-02, S4-34440-12, S4-34401 and S4-34404

The optional confirmation input is advised, however is not part of this compliance certification.

Fire Protection Equipment



FPE Interface can be a MV Interface unit S4-34411 as shown, but can be also be a S4-34415 or S4-34420

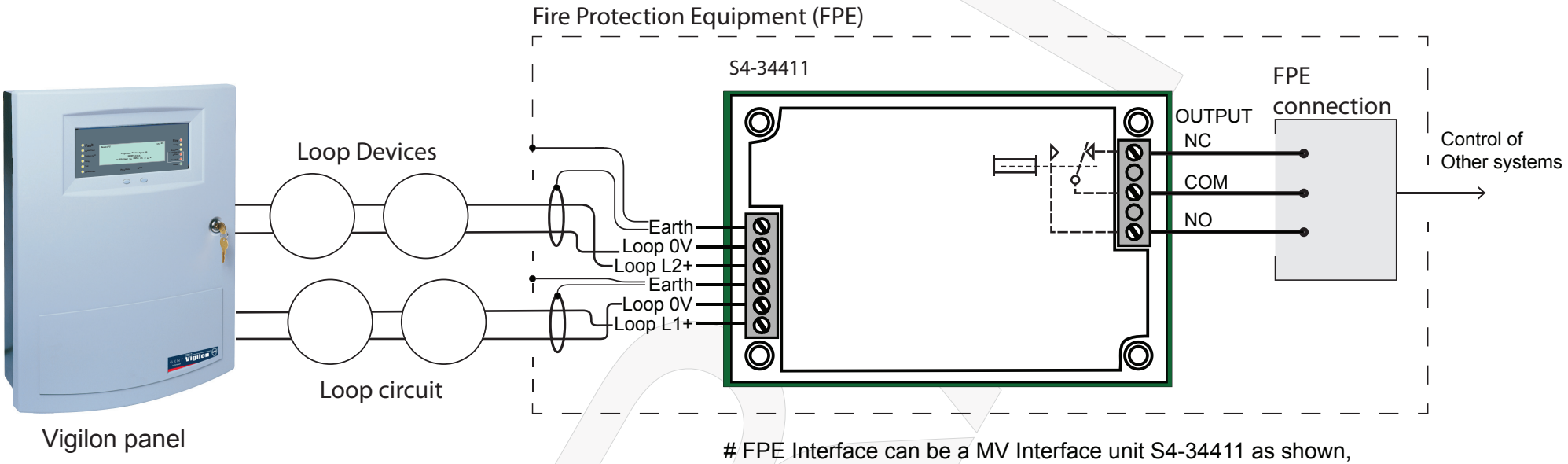
Other interface units can be configured as FPE, these include S4-34440-02, S4-34440-12, S4-34401 and S4-34404

Wiring Fire Protection Equipment

A standard interface unit can be configured for FPE operation, its relay output can be used for any fire protection operation, such as for Lift control and Plant shutdown.

The FPE Interface output is not and must not be affected by the SOUND ALARMS operation at any networked Vigilon panel, the output is affected by the RESET operation.

There can be a number of FPE interface units installed in a standalone Vigilon system for Fire Protection Equipment applications.

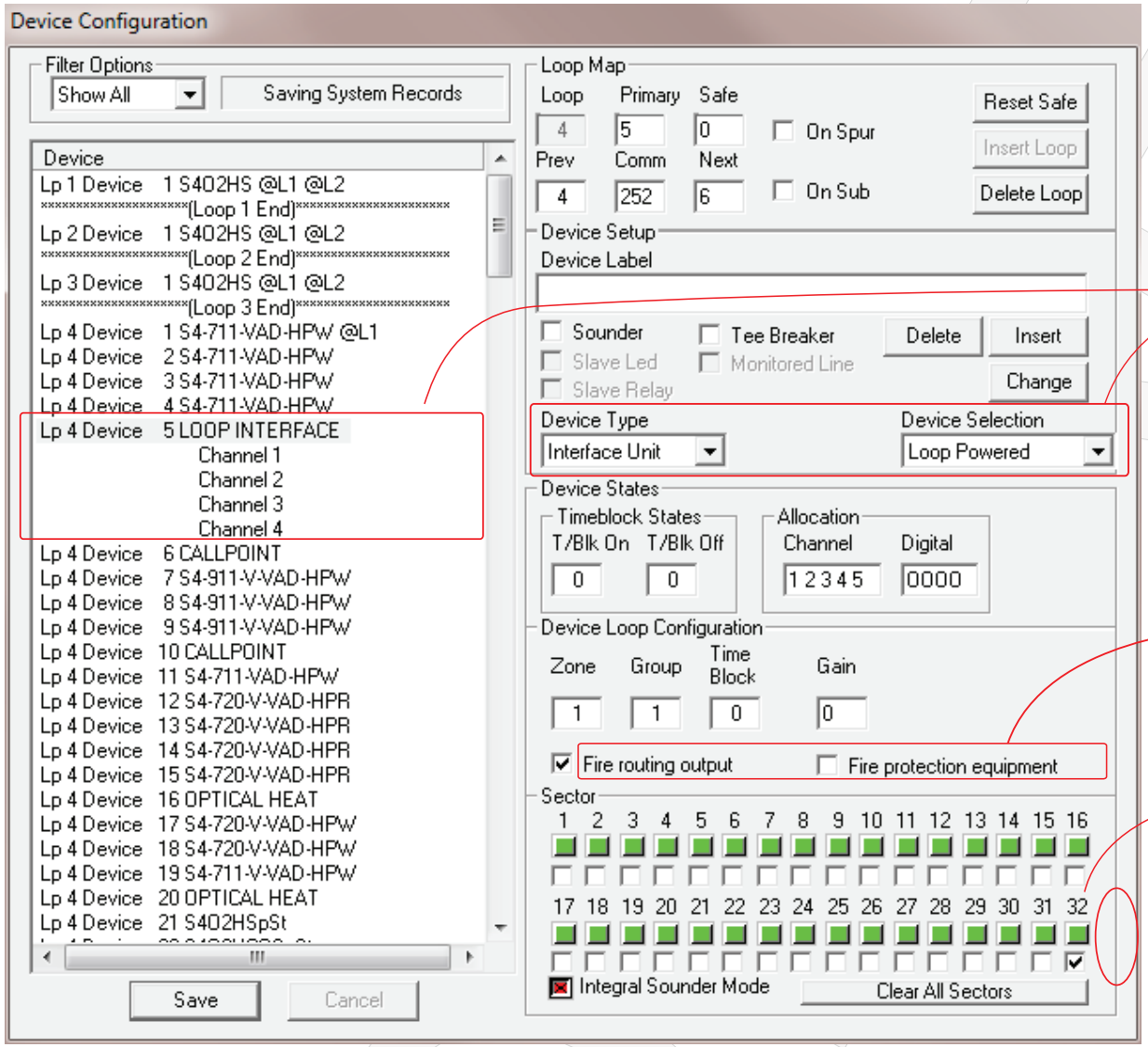


FPE Interface can be a MV Interface unit S4-34411 as shown, but can be also be a S4-34415 or S4-34420

Other interface units can be configured as FPE, these include: S4-34440-02, S4-34440-12, S4-34401 and S4-34404

How to Configure an Interface Unit for ***Fire Alarm Routing Equipment (FARE)*** or ***Fire Protection Equipment (FPE)*** *application*

Use Commissioning tool V1.31 or higher to configure interface units for FARE and FPE applications.



Requirements

Fire Alarm Routing Equipment (FARE) and Fire Protection Equipment (FPE) requires Vigilon panel to have cards:
- MCC at V5.53 or higher
- LPC at V4.49 or higher

① Select one compatible interface for FARE application: S4-34420 or S4-34450, see also #
or
select one compatible interface unit for FPE application: S4-34411, S4-34415, S4-34420 or S4-34450, see also #.

② The chosen interface can be configured for FARE or FPE by selecting the required check box.

When an interface is identified as a FPE or FARE device then all its OUTPUTS are automatically placed in PLANT Sector 32 as default.

The Interface can be reconfigured to be in PLANT Sector 29, 30 or 31.
Other Sectors can be used in place of PLANT sector but they must be managed for their operation with Sound and Silence alarms.

- Other interface units that can be configured for FARE or FPR include S4-34440-02, S4-34440-12, S4-34401 and S4-34404.

Fire Alarm Routing Equipment operation

How to configure an interface for FARE operation

1. Select a compatible Interface unit in Device setting *tree view* of Commissioning tool 1.31 or higher and then set it for Fire Alarm Routing Equipment application:

☑ Fire routing output

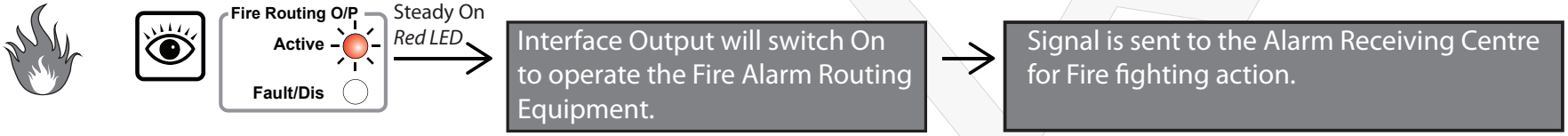
Note the Interface is placed in Plant sector 32 by default, it can be reconfigured to be in another Sector.

2. Configure Sector and Sector linking actions using the Commissioning tool for the required Outputs to operate in the event of a fire detection.

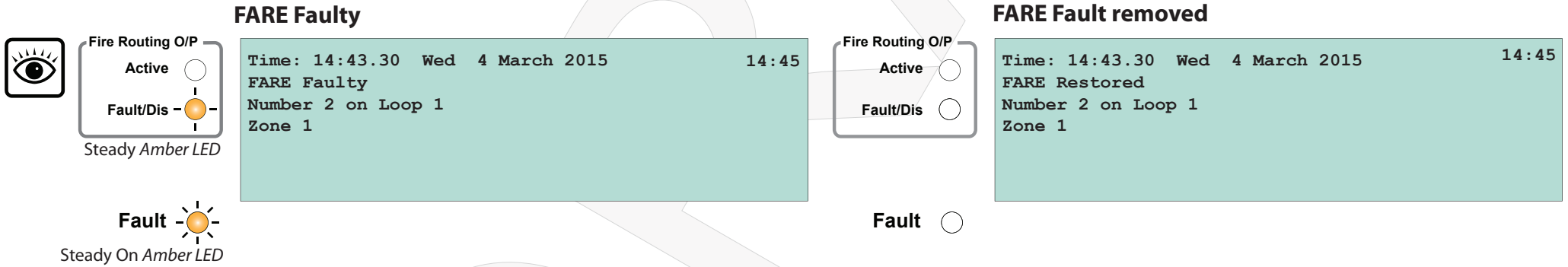
> The FARE Interface output must not be affected by the SOUND ALARMS button when it is operated at the panel.

FARE operation

In the event of a Fire and if FARE is configured then FARE operation will be as follows:



How a short circuit or signal transmission fault at FARE is displayed at a Vigilon panel



Fire Alarm Routing Equipment controls

How to view information about FARE Interface from a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above, select from panel menu:

[Info] → <etc> → [UserCode] → [Status] → <etc> → <etc> → <etc> → <etc> → <etc> → <etc> → [FARE] → [E]

```
FARE Loop 1, Device 2                    14:45
```

This information shows that Device 2 on Loop 1 of the Vigilon panel is a FARE Interface Unit.

There is only likely to be one FARE device in a Vigilon System that is used to signal Fire Receiving Centre.

LED On

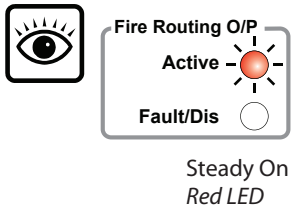
LED Flashing indication

How to manually switch On FARE from a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above you can manually switch FARE. Select from the panel menu:

[Control] → <etc> → [FARE] → [Off] / [On] → [E]

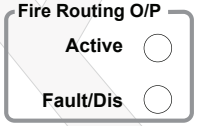
FARE Switched ON indications



Steady On
Red LED

```
                                         14:45
FARE activated
Number 2 on Loop 1
Zone 1
```

FARE Switched OFF indications



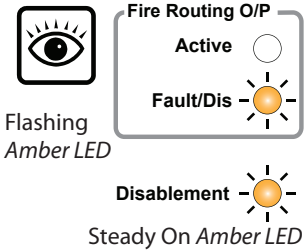

```
                                         14:45
FARE deactivated
Number 2 on Loop 1
Zone 1
```

How to manually Disable / Enable FARE from a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above you can Disable or Enable FARE. Select from the panel menu:

[Control] → [Enable] / [Disable] → <etc> → <etc> → <etc> → [FARE] → [E]

FARE Disabled indicaitons

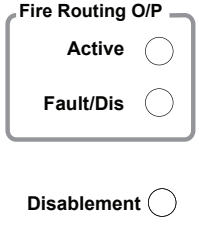


Flashing
Amber LED

Steady On *Amber LED*

```
Time: 14:43.10  Wed  4 March 2015       14:45
FARE Disabled
Number 2 on Loop 1
Zone 1
```

FARE Enabled indications




```
Time: 14:43.30  Wed  4 March 2015       14:45
FARE Enabled
Number 2 on Loop 1
Zone 1
```

Fire Protection Equipment operation

How to configure an interface for FPE operation

1. Select a compatible interface under Device settings *tree view* of Commissioning tool V1.31 or higher and then set it for Fire Protection Equipment application:

   ☑ Fire protection equipment

   Note the Interface is placed in Plant sector 32 by default, it can be reconfigured to be in another Sector.

2. Configure Sector and Sector linking action to site requirement using the Commissioning tool for correct operation of Outputs in the event of fire detection.

The FPE Interface output must not be affected by the SOUND ALARMS button when it is operated at the panel.

FPE operation

In the event of a Fire and if FPE is configured the following will happen:

FPE Interface Output operates → Signal is sent to connected system(s)

How to manually switch On / Off / Pulse FPE Outputs from a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above, select from the panel menu:

[Control] → <etc> → <etc> → <etc> → <etc> → <etc> → [Digital] → <etc> → Select [On] / [Off] / [Pulse] → <etc> → [Device] → [Loop] → [E]

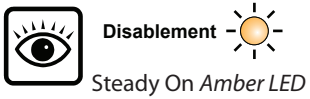
Fire Protection Equipment controls

How to manually Disable / Enable FPE from a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above, you can Enable or Disable FPE. Select from panel menu:

[Control] → [Enable] / [Disable] → <etc> → <etc> → <etc> → [FPE] → [E]

FPE Disabled indications




```
Time: 14:43.10  Wed  4 March 2015          14:45
Device Disabled at Card 1
```

FPE Enabled indications


```
Time: 14:43.30  Wed  4 March 2015          14:45
FPE Enabled at Card 1
```

How to view information about FPE Interface at a Vigilon panel

Using the Vigilon panel keyboard and assuming you are at Access level 2 or above you can find which interface units are configured for FPE.
Select from panel menu:

[Info] → <etc> → [UserCode] → [Status] → <etc> → <etc> → <etc> → <etc> → <etc> → <etc> → [FPE] → [E]

```
FPE 1: 6, 8                                14:45
```

This information shows Devices 6 and 8 on Loop Card 1 are FPE interfaces.

Commissioning a FARE device

When commissioning a Fire alarm system having a FARE interface ensure a fault or activation event is created at the FARE device and check the device event is recognised at other panels in a network.