

# Perimeter Product Overview

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Effective protection for your business

[Fencing-Systems.co.uk/Products/Pulse-Fences](https://Fencing-Systems.co.uk/Products/Pulse-Fences)





## The Gallagher difference

Our innovation is driven by the desire to solve problems, **meet your needs** and provide real business value.

We create and deliver perimeter solutions designed to protect **what's important to you.**

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# Perimeter Security Solutions



## Prevention

### Energized Pulse

Energized fences are a powerful deterrent, preventing or delaying intruders.

- Fully monitored fence line, attack detection and maintenance monitoring
- Reliable protection day and night
- Adjustable voltages, high for maximum deterrent and low for periods of low risk
- Configurable protection zones, adjust a site specifically to the deterrent level required.



## Detection

### Monitored Perimeter

Sensors can be used with the networked Gallagher security fence as an additional layer of detection, or for sites wanting to monitor activity without the deterrent pulse.

- Detect intrusion without the intruder being aware
- Continuously measure and report on wire tension
- Monitor fence structure vibration or movement.



## Management

### Managed Perimeter

Gallagher's Command Centre is a powerful operator-friendly security management system.

- Full integration between perimeter, intrusion, access control, and video management systems
- Powerful reporting on detail such as fence voltage levels, operator use statistics or specific zone alarm data.

# International Standards

**Gallagher monitored pulse fence systems are designed to offer effective deterrent in the safest possible way.**

Gallagher perimeter products are designed to comply with international safety and electromagnetic compatibility standards. These standards set out the safety requirements for the design, installation, and operation of pulse fencing and associated equipment. Every energizer product developed by Gallagher is tested in New Zealand laboratories accredited by IANZ (International Accreditation New Zealand).

Internally, Gallagher has staff dedicated to reviewing changing standards and ensuring products are compliant with all legal specifications.

As recognized industry experts in energized fencing technology, Gallagher is an invited member of the Global Standards Committee which develop and update energized fencing safety standards.



# Fence Controllers



## F3 Series Fence Controllers

A single energizer platform that does everything from simple single fence zone protection to complex multi-controller, multi technology, fully networked solutions. Available in two versions, a single circuit (F31), and a dual circuit (F32).

### Two Configurations

Deployable as a stand-alone fence controller (for use with an alarm panel), or as a fully networked controller with a full suite of integrated capabilities. Configurations can be changed easily with an onboard switch.

### Dual Pulse

The F32 controller can be configured as a single dual pulse zone with alternate positive and negative pulse on fence wires for extra deterrent.

### User Interface

An intuitive user interface has been developed to give instant visual system and fence circuit information right at the controller.

### Service Mode & Magnetic Key

Service mode allows an operator to control zones while fault finding and testing. A magnetic key allows historic alarm indications to be cleared and, when in service mode, circuits can also be turned on and off.

### Cable Manager

Optional storage module and cable cover for tidy cabinets.

### More Features

- Independent fence zones F31 (x1) F32(x2)
- 2.4J output per zone regardless of loading
- Pulse synchronization for integration of multiple controllers and other electric fences
- Dual pulse functionality of up to 16kV, for enhanced deterrence
- In-built protection against extreme temperature
- High speed HBUS communication with Command Centre automatically updates software
- Proactive features to avoid fence zone failures

## F31 Fence Controller G21920



## F32 Fence Controller G21940



**For more information refer to datasheet:**  
F3 Fence Controller

## F22 Fence Controller G21902

The F22 provides a networked perimeter security system with full configuration, control and monitoring through Gallagher Command Centre.

- Independent fence zones (x2)
- 2.4J output per zone regardless of loading
- Pulse synchronization for integration of multiple controllers and other electric fences
- Dual pulse functionality of up to 16kV, for enhanced deterrence
- In-built protection against extreme temperature
- High speed HBUS communication with Command Centre automatically updates software
- Alert and warning features to avoid fence zone failures



**For more information refer to datasheet:**  
F22 Fence Controller

# Fence Hardware



## Security fencing is the first step in protecting businesses from intruders

### Fencing Hardware

Effective security fencing requires unique custom design and construction to meet the challenges of individual sites. Gallagher has focused on developing reliable fencing hardware that is easy to install, easy to maintain and designed to cope with different site challenges.

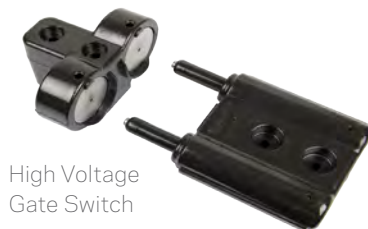
Every site has individual challenges, and the flexibility of Gallagher's perimeter security solutions enable those challenges to be met and overcome. Unique site challenges include:

- Environmental extremes (cold, heat, salinity, wind, rain)
- Size considerations (100's of kilometers of fenceline, or a single isolated zone)

- Varying intruder behaviors, intensity and purpose
- Site geometry (rooftop defenses, multiple gate locations)
- Customer expectations (aesthetics, business requirements)

Gallagher supplies a wide selection of fence hardware and accessories to meet the unique requirements of any perimeter project.

**For more information on fence hardware contact:**  
Gallagher or a Gallagher Certified Channel Partner



High Voltage  
Gate Switch



High  
Conductivity  
Wire



Lightning Diverter



Security posts



K20 Tensioner Link System



Security Insulator

# Perimeter Sensors



## Sensors provide continuous awareness of events at the perimeter

Sensors are able to quickly identify intrusion attempts without alerting the intruder. Responses can be deployed, and attack metrics can be gathered to increase knowledge of perimeter activity. Sensors can also be added to existing perimeter defenses to significantly improve the probability of detection in multi-technology and layered perimeter solutions.

### Z10 Tension Sensor G13110

The Z10 sensor provides continuous, real-time, wire tension measurement, detecting both fast and slow attacks. Fully integrated with Gallagher Command Centre (v7.10 and later), the sensor uses the HBUS communication protocol (including compatibility with high security AES 128bit encryption) to deliver quick and secure perimeter status information.

- Attack alarm based on single or multiple sensors
- High, and low, wire-tension maintenance alarms
- Differentiation between environmental changes and attacks
- Fast installation using self aligning Pivoting Mount Technology as well as plugged and IDC connectors
- Overload protection to 200kg (440lb)
- Options to retrofit to existing Gallagher perimeter security systems



**For more information refer to datasheet:**  
Z10 Tension Sensor



### Z20 Disturbance Sensor G12915

The Z20 Disturbance Sensor detects vibration or movement of the fence structure, generating alarms when disturbance meets predefined criteria.

- Sensors can retrofit to existing structures
- Compatible with both electric and non-electric fencing systems
- Alarm parameters can be individualized for each sensor
- High integrity detection with low nuisance alarm rates
- Quick and easy installation, sensors fit to both curved and flat surfaces.
- Available with standard (shown) or conduit clamp

**For more information refer to datasheet:**  
Z20 Disturbance Sensor

### 3 Zone Fence Integrity Monitor G29003

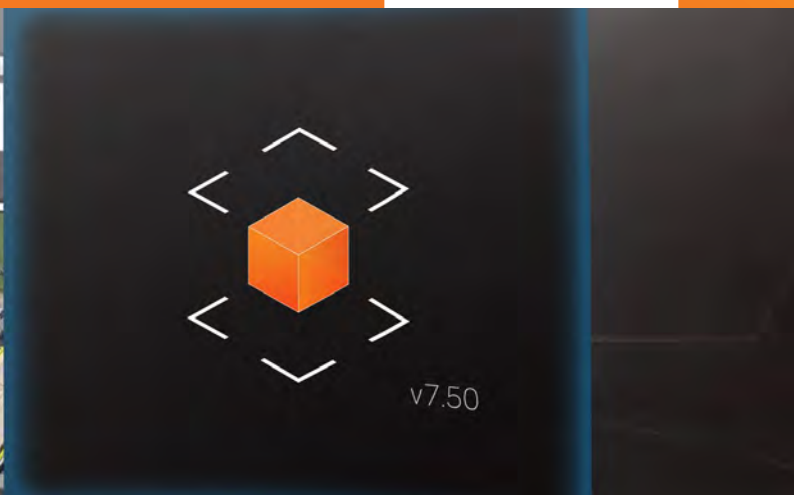
Compatible with Gallagher F22, Trophy FT and Trophy Plus Controllers, the Gallagher 3 Zone Fence Integrity Monitor (FIM) enhances networked or standalone perimeter security systems through continuous fence circuit monitoring.

- Maintains fence monitoring during times of low risk or when people are in close proximity
- Ensures the fence is fully functional when enabling the deterrent pulse
- Can retrofit to existing systems
- Provides 'cut wire' and 'short circuit' detection without changing fence configuration
- Can be installed as a stand-alone fence monitor



**For more information refer to datasheet:**  
3 Zone Fence Integrity Monitor

# Command Centre

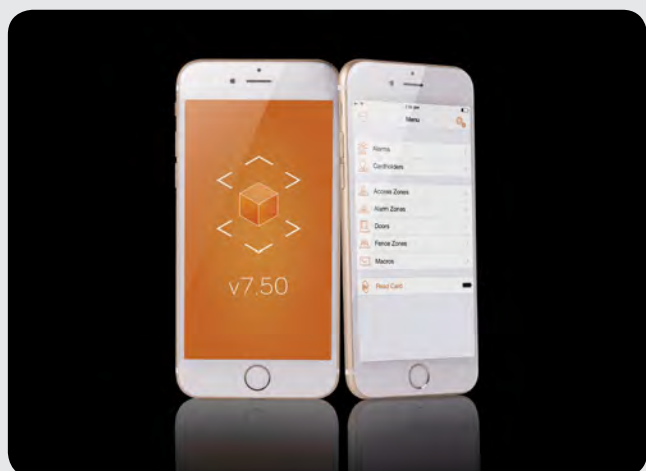


**For more information refer to datasheet:  
Gallagher Command Centre**

Utilizing a client server architecture, Gallagher Command Centre provides a powerful and versatile feature set enabling system operators to configure, monitor, and control the security system.

Gallagher enables powerful management of site systems through the Command Centre software. Advanced multi-zone protection on single or multiple distributed sites is provided and perimeters can be integrated with other security systems such as imaging, intruder alarm or access control, alarm monitoring and signaling. Gallagher Command Centre can be fully customized to suit your business needs, providing:

- Site hardware and system components, including: access, intruder alarm and perimeter security fencing
- Schedules to automate access and alarm state changes. Doors may be configured as requiring card only, card plus PIN, dual access (two unique cards), free access etc
- Entry and exit delays for intruder alarm zones
- Individually programmed responses for a cardholder or all members of an access group
- System division and assigned privileges to manage operators
- Communication with Gallagher Controllers with peer-to-peer communication independent of the server. This allows data to be automatically distributed to areas of the system where it is required
- Dial-up support for remote sites or off-site alarm monitoring
- Communication between Gallagher Command Centre and Gallagher Controllers using up to 256 bit AES encryption; a recognized industry leading level of data protection
- Configuration, live operation and reporting of on-site guard tours



**For more information on Command Centre Mobile app,  
visit our website: [security.gallagher.com](http://security.gallagher.com)**

## Command Centre Mobile App

The Gallagher Command Centre Mobile App enables you to extend your security and access control directly to where you need it.

Downloadable from the Apple App and Google Play stores, this software provides you with the ability to manage your security from your mobile device.

The Mobile App interfaces directly with Gallagher Command Centre, providing a secure link directly to the site management capabilities that already bring security and business efficiency to your site.

### iOS and Android

The Mobile App is available on both iOS (8.0 +) and Android devices (5.0 +). The optional products such as the Mobile Reader and Access Reader feature are only available on iOS.

# Perimeter Integrations



The power of Gallagher Command Centre allows extensive integration with other systems. This enables seamless interaction with third party perimeter products or extends the capabilities of Command Centre at the perimeter to provide greater site management value\*.

## Gallagher Networked Perimeter Security System

A high-level interface between Gallagher Command Centre and the Gallagher perimeter security system delivers multi-site, multi-zone control and monitoring through a single graphical user interface.



### Video Integrations

Command Centre integrates with and monitors world-leading video systems.



### Dynamic Exit Zoning C12591

Cardholders are accounted for in Command Centre via the vehicle they're traveling in, without the need to badge at each access gate they travel through.



### Regulated Zones C12639 Reporting

Monitor time-on-site for all visitors, employees, and contractor cardholders within a configured time zone.



### Fatigue & exposure management

Reduce unnecessary downtime or accidents by identifying individuals who may be at risk of fatigue.



### Visitor Management Web Service C12671

Automatically manage visitors on and off site, including updating visitor details, capturing photos, printing visitor labels, and more.



### ASCII Interface C12669

Gallagher's ASCII interface provides a generic means to interface to building systems.



### Mobile Cardholder Challenge C12701

Allow guards to randomly check a cardholder's details by badging their card against a mobile device:



### Competency Module 2A8959

At the door determine a person's suitability for access including their training and certification needs, and fitness for work.

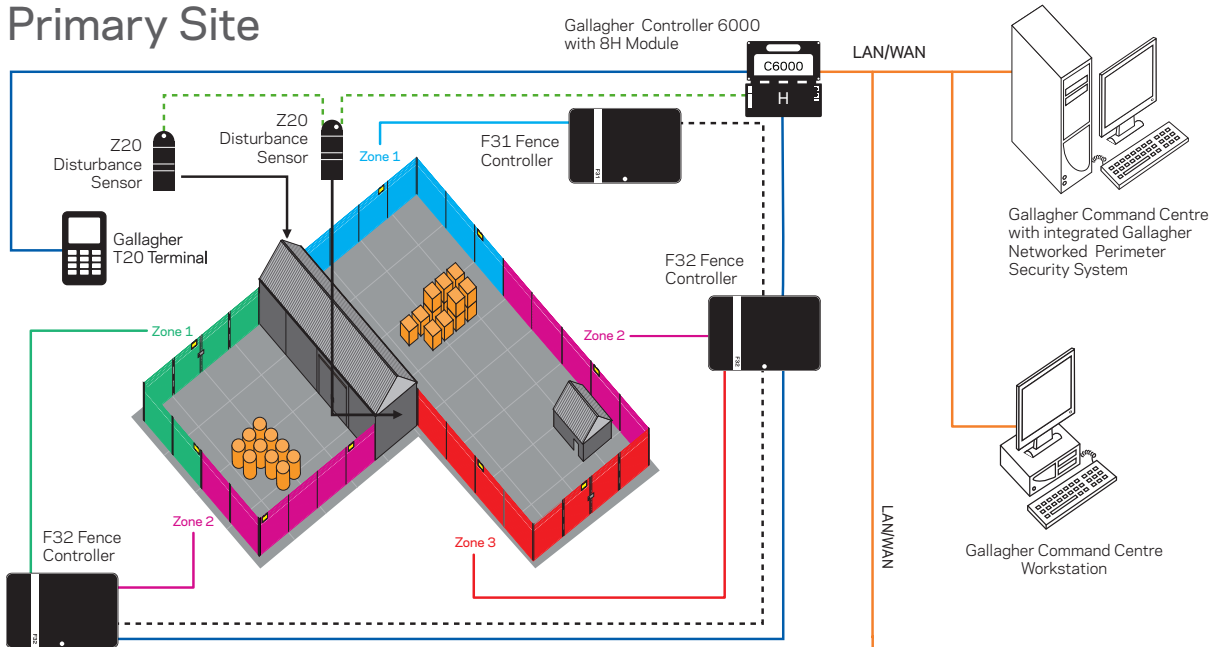
For more information on our integrations visit the Gallagher website: [security.gallagher.com](http://security.gallagher.com)

\* Some integrations require optional licenses, contact Gallagher or a Certified Channel Partner to find out more.

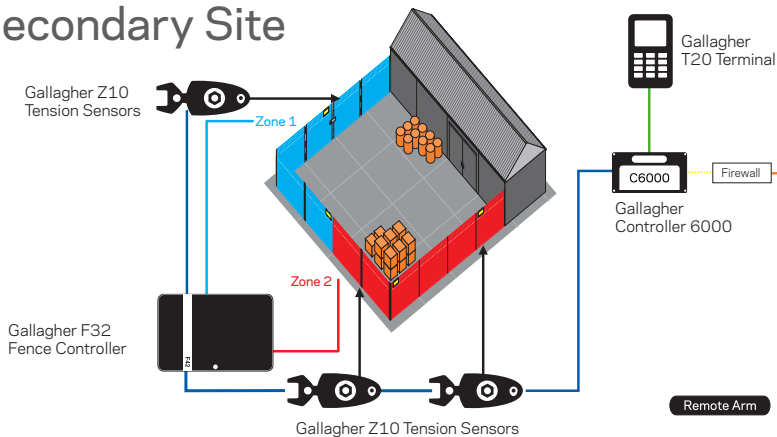
# Perimeter Systems Overview

Gallagher leverages cutting-edge research, development and manufacturing capabilities to bring complete security to diverse sites.

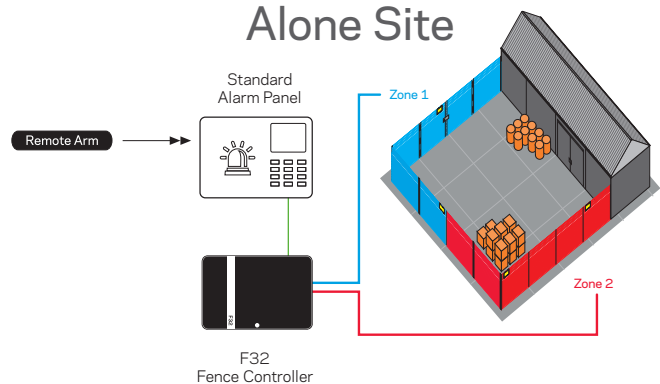
## Primary Site



## Secondary Site



## Stand Alone Site



### Legend

- Ethernet (TCP/IP)
- RS485 (GBUS)
- RS485 (HBUS)
- - - RS485 (SensorBus)
- - - RS485 (LV Sync)\*
- Location indicator
- - - Dial-up Comms

\* HV Sync also supported on F32, see install notes for more detail

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