

# F3 Fence Controllers

A single energizer platform that does everything from simple single fence zone protection to complex multi-controller, multi technology, fully networked solutions.

## Gallagher F3 Fence Controllers Features

### 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 for twice the deterrent.

### User Interface

The controller has an intuitive visual interface developed to give instant system and fence circuit information.

### Synchronization

Low and high voltage synchronization options allow for safe and compliant operation.

### Low feel voltage

The Low Feel setting allows fence circuits to be monitored while operating at a decreased deterrent level.

### 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.

### Alarms

The F3 Controllers create alarms for a variety of events, including: fence voltage drop, power supply failure, tamper, over-temperature, and synchronization loss or battery test failure.

### Power management

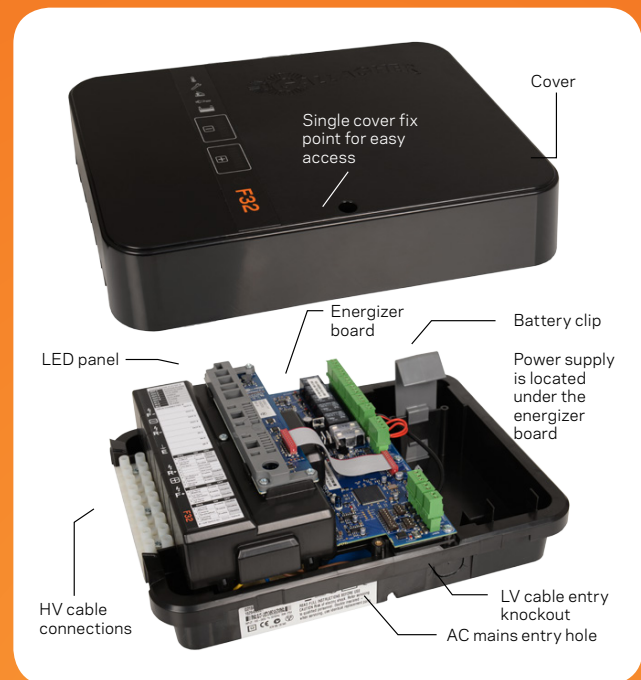
Enhanced battery management ensures efficient battery charging, extended charge duration, and automatic backup testing.

### Temperature management

Internal sensors continuously monitor temperatures and the F3 Controller will adjust behavior automatically to protect the controller and maintain security.

### Cable manager

Optional storage module and cable cover for tidy cabinets.



**F31 Fence Controller**  
G21920 - Single Circuit

**F32 Fence Controller**  
G21940 - Dual Circuit



# Technical Specifications

## PART NUMBERS

G21920 F31 Fence Controller	G21963 Magnetic Key	G21961 Power Supply 15V 2.4A
G21940 F32 Fence Controller	G21965 F3 Cable Manager	

## F3 FENCE CONTROLLERS

		F31	F32
Fence Controller	Power Supply Voltage	90 - 265V AC, 50 / 60Hz	90 - 265V AC, 50 / 60Hz
	Power Consumption	30W	36W
	Software (network only)	Command Centre v7.40 or above	Command Centre v7.40 or above
Aux. DC output		11 - 15V 0.7A (re-settable fuse)	11 - 15V 0.7A (re-settable fuse)
Inputs	4-State balanced inputs	2	3
Outputs	Dry contact relays	4	5
	Max contact rating	1 A at 20V DC / AC RMS	1 A at 20V DC / AC RMS
Communications	Between Gallagher Controller HBUS port and Gallagher F3 Fence Controller	RS485 at 1Mbits/s	RS485 at 1Mbits/s
	Wiring format - data	2 wire	2 wire
	Encryption level	128 bit AES	128 bit AES
Cable distance	F3 Fence Controller to Gallagher Controller 6000	500m (1640ft) maximum (non-shielded twisted pair)	500m (1640ft) maximum (non-shielded twisted pair)
Sync Options		LV	LV/HV
LV Sync Cable Limit		1.2km CAT5e/ Copper, 50km Fibre	
Maximum recommended number of F Series Controllers per C6000 HBUS port		24	24
Number of fence circuits		1	2
Maximum recommended fence zone length		300m (984ft)*	300m (984ft)*
Maximum HV circuit resistance		300Ω*	300Ω*

\* While the energy of this unit allows up to a maximum of 300m (984ft) - the classification of risk, elevations in the fence, and terrain dictate the length of a zone for security evaluation

Energyizer	Output per circuit	F31	F32
	High Voltage High Voltage Dual Pulse	100% Nom 8.0kV (wire to earth) <sup>†</sup>	100% Nom 8.0kV (wire to earth) <sup>†</sup> 100% Nom 16.0kV (-wire to +wire) <sup>†</sup>
	Low Feel	100% 1.0kV (500Ω) <sup>†</sup> 10% 0.4kV (500Ω) <sup>†</sup>	100% 1.0kV (500Ω) <sup>†</sup> 10% 0.4kV (500Ω) <sup>†</sup>
	Pulse Rate	1 pulse per 1.5sec <sup>†</sup>	1 pulse per 1.5sec <sup>†</sup>

<sup>†</sup> Default values in stand-alone, and configurable in Command Centre when using network mode

Temperature range	Portrait	F31	F32
	Portrait	-20° to +40°C (-4° to +104°F)	-20° to +40°C (-4° to +104°F)
	Landscape	-20° to +50°C (-4° to +122°F)	-20° to +50°C (-4° to +122°F)
Environmental protection rating		IPX4	IPX4
Internal back up battery	7 Ah / 12V DC	6 hours coverage on default settings	5 hours coverage on default settings

## Compliance standards

C-Tick, FCC, ROHS, CE,  
EN 60335-2-76:2005 + A2:2015,  
AS/NZS 60335.2.76:2003 Edition 2.1 inc A1, A2, A3  
IEC 60335-2-76:2002 Edition 2.2 inc A1:2006 + A2:2013  
SANS 60335-2-76:2006 Edition 2.1

**RoHS**  
COMPLIANT



## Dimensions

### F3 FENCE CONTROLLERS

		F31	F32
Dimensions	Height x Width x Depth	255 x 340 x 120mm (10 x 13.4 x 4.7in)	255 x 340 x 120mm (10 x 13.4 x 4.7in)
	Weight	2.95 kg (6.5lb)	3.75 kg (8.27lb)

### F SERIES CABLE MANAGER

Dimensions	Height x Width x Depth	255 x 112 x 120mm (10 x 4.4 x 4.7in)
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