

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

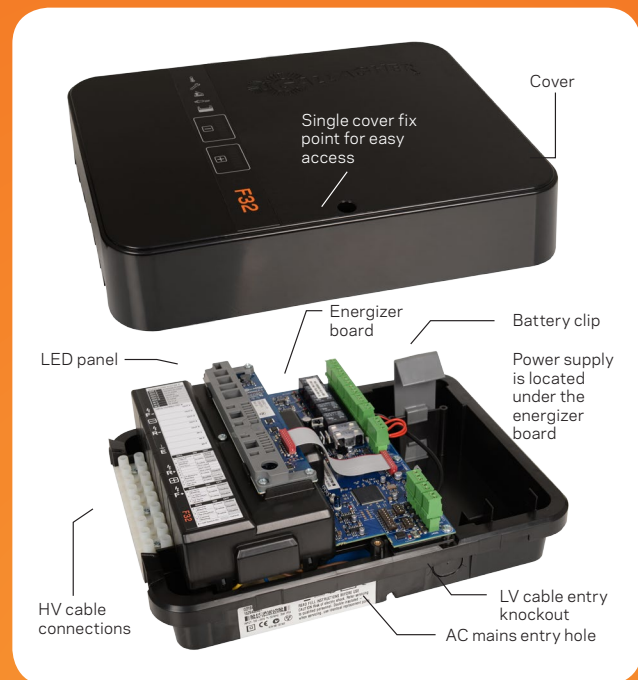
Enhanced battery management ensures efficient battery charging, extended charge duration, and automatic backup testing.

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 1Mbps/s	RS485 at 1Mbps/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

Energizer	Output per circuit	2.3J	2.3J
	High Voltage	100% Nom 8.0kV (wire to earth)*	100% Nom 8.0kV (wire to earth)*
	High Voltage Dual Pulse	100% Nom 16.0kV (-wire to +wire)*	100% Nom 16.0kV (-wire to +wire)*
	Low Feel	100% 1.0kV (500Ω)* 10% 0.4kV (500Ω)*	100% 1.0kV (500Ω)* 10% 0.4kV (500Ω)*
	Pulse Rate	1 pulse per 1.5sec*	1 pulse per 1.5sec*

* Default values in stand-alone, and configurable in Command Centre when using network mode

Temperature range (ambient)	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	5 hours coverage
	With no Aux. DC connection	14 hours coverage	10 hours coverage

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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