

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 greater 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

Product numbers					
G21920	F31 Fence Controller	G21963	Magnetic Key	G21961	Power Supply 15V 2.4A
G21940	F32 Fence Controller	G21965	F3 Cable Manager	C303900	HBus Data and Power Cable
F3 Fence Controllers		F31	F32		
Product detail	Fence Circuits	1	2		
	Pulse Rate	1 pulse per 1.5sec*	1 pulse per 1.5sec*		
	Low Feel	100% 1.0kV (500Ω)* 10% 0.4kV (500Ω)*	100% 1.0kV (500Ω)* 10% 0.4kV (500Ω)*		
	Output per circuit	2.3J	2.3J		
	Maximum HV circuit resistance	300Ω*	300Ω*		
	HV	100% Nom 8.0kV (wire to earth)*	100% Nom 8.0kV (wire to earth)*		
	HV Dual Pulse	-	100% Nom 16.0kV (-wire to +wire)*		
	Max recommended fence zone length	300m (984ft)*	300m (984ft)*		
	Sync options	LV	LV/HV		
	Max F3 Controllers per C6000 port	24	24		
	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		
Minimum requirements	Software	Command Centre v7.40 or above required for networked functionality			
Power	Power Supply Voltage	90 - 265V AC, 50 / 60Hz	90 - 265V AC, 50 / 60Hz		
	Power Consumption	30W	36W		
	Aux. DC output	11 - 15V 0.7A (re-settable fuse)	11 - 15V 0.7A (re-settable fuse)		
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		
Environmental limits	Operating temperature	Portrait: -20° to +40°C (-4° to +104°F) Landscape: -20° to +50°C (-4° to +122°F)	Portrait: -20° to +40°C (-4° to +104°F) Landscape: -20° to +50°C (-4° to +122°F)		
	Protection rating	IPX4	IPX4		
Communications	Transfer speed (Controller to F3)	RS485 at 1Mb/s	RS485 at 1Mb/s		
	Max HBUS distance	500m (1640ft)	500m (1640ft)		
	Cable specification	2 wire (non-shielded twisted pair)	2 wire (non-shielded twisted pair)		
	Encryption level	128 bit AES	128 bit AES		
	Max LV sync cable distance	1.2km CAT5e/ Copper, 50km Fibre	1.2km CAT5e/ Copper, 50km Fibre		
Standards compliance	F3 Controllers	RCM, FCC, ROHS, CE, ASNZS 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 Compliance and certification information is available on our support site or by contacting Gallagher			
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)		
Additional notes	* 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 * Default values in stand-alone, and configurable in Command Centre when using network mode				

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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