A VANTAGE Company

FM1

The **original** fault monitor designed to detect jumped or faulty elevator door circuits

Will you be ready to comply with NYC Building Code 3.10.12 Appendix K by the January 1, 2020 deadline?

FM1: The Industry's First Door Contact Fault Monitor.

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In 1978 Walter Glaser of GAL Manufacturing designed, patented, and manufactured the industry's first door contact fault monitor. Today, over 10,000 FM1 units are used worldwide, and it is a basic component in all GAL Controller designs. With its non-proprietary, universal design, FM1 can be used successfully in any Controller (Relay, PLC Logic and Solid-State Logic) found in the industry today.

By 2020 ALL NYC Elevators Must Utilize A Door Fault Monitor To Comply With Code.

Due to changes to the NYC Elevator Code (2.26.5 and 3.10.12, Appendix K) all elevators must utilize a Door Fault Monitor by 2020 to be in compliance. When jumped or faulty door circuits are detected, the door fault monitor must:

- ***provide an alarm (as an audible or visual fault indicator)***
- ***prevent door closure (or reopen car doors if a door fault is detected during closing)***
- ***halt car movement until the fault (including faulty door contact, hoistway door interlock contacts, or both sets of contacts of a swing door interlock) has been cleared.***

FM1 can meet all these requirements today. Call and see how a solution can be tailored to your needs to meet the 2020 Compliance deadline.

FM1: Features

- **Detects jumped or faulty door circuits and prevents car movement in the event of failure *(permitting simple system compliance with provisions of NYC Building Code 2.26.5 and 3.10.12, Appendix K—required by 2020)*.**
- **Separate commons for different circuits.**
- **Universal inputs (24V-250 VAC or DC).**
- **On-board diagnostics/troubleshooting LEDs.**
- **Alarm relay permits audible or visual indication of fault.**

FM1: Benefits

- **Prevents any movement of car in event of failure, and doors remain open until the fault is cleared.**
- **Interfaces with any relay logic or solid-state Controller.**
- **Provides system hardware redundancy.**
- **Compatible with optional add-on FMG1 (Rope Gripper® Control Board and use with Hollister-Whitney Rope Gripper® *permitting easy compliance with NYC Building Code Section 2.19 by 2027 deadline)*.**

FM1: Electrical Specifications

- **Utilizes power supply from existing Controller (110-240 VAC).**

FM1

FM1_FMG1_9.18

GAL Manufacturing • 50 East 153rd St. • Bronx, NY USA 10451-2104 • Ph : 718.292.9000 • Fax : 718.292.2034 • info@gal.com • **www.gal.com**

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FMG1

Works with Hollister-Whitney's Rope Gripper® to provide **ascending/descending over-speed protection** and **unintended car movement detection**

Be compliant with NYC Building Code 2.19.2 and 3.8.4.1 Appendix K, before the 2027 deadline

Because you never want an elevator ride to be a memorable experience

How To Comply With NYC Building Code 2.19.2 and 3.8.4.1 Appendix K.

Serving as the solid-state 'brains' of a non-proprietary safety system, FMG1 prevents anyone from taking a wild ride in an elevator. FMG1 monitors data from an elevator's Motor, Door Zone, Run Relays, Governor, and Brake Switch. Should it detect unintended car movement or ascending/descending over-speed conditions, it triggers the Hollister-Whitney Rope Gripper® to halt all car movement.

Hollister-Whitney Rope Gripper®

NYC Building Code 2.19.2 and 3.8.4.1 Appendix K, require that by 2027 an elevator must provide means to safeguard passengers against such conditions or be declared noncompliant. So it's only prudent to incorporate both in your system now. And as they are available from GAL, a Bronx-based name the industry has trusted since 1927—it couldn't be easier to do.

FMG1 Can Interface With FM1 And Any Other Controller.

FMG1 unit is fully compatible with all GAL Controllers built since 2000. In addition FMG1 can interface with FM1 and can be used in any Non-GAL Controller (Relay Logic, PLC and Solid-State Logic), providing the capability to utilize the Rope Gripper®. For details on how FMG1 and the Hollister-Whitney Rope Gripper® can help you address compliance issues, call us today

FMG1: Features

- **On-board LCD and keypad for diagnostics/troubleshooting and set-up.**
- **Non-proprietary, Universal inputs permit instant upgrade of any Controller.**
- **Incremental Encoder Interface for elevator movement feedback.**
- **Optional second Incremental Encoder feed back to provide redundancy or slip detection.**
- **Option to monitor brake lift switch.**

FMG1: Benefits

- **Provides unintended car movement (UCM) detection and ascending/descending over-speed (ACO) detection.**
- **Interfaces with FM1 (Door Fault Monitor Board) and the Rope Gripper® to provide a simple means to halt car motion when fault is detected *(permitting system compliance with NYC Building Code 2.19.2 and 3.8.4.1, Appendix K—required by 2027)*.**
- **Displays status of elevator (Automatic, Inspection, Faults), doors (Open/Closed) and elevator motion (Up/Down/None).**

FMG1: Electrical Specifications

- **Universal Inputs (24V-250 VAC or DC).**
- **Uses Controller power supply (110-240 VAC).**

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