

FireGard™ Closing Systems

Simplified Fire Product Operating Systems

Cornell provides safe, reliable and simplified fire door closing options with its full line of FireGard simplified reset fire door systems. These systems close fire rated doors without releasing spring tension or disengaging the operator drive mechanism. FireGard operators include bracket mounted motor operated units and manual chain and crank operated units.

Recommended FireGard Closing System Applications:

- Opening is not a pedestrian thoroughfare.
- Connection to Central Alarm System or Local Smoke Detectors is not required by local building officials.
- Applications where the installation of fusible links, turnbuckles, chains and eyebolts to the face of both sides of the wall above the opening will not detract from the intended aesthetics.



FireGard Closing System Benefits:

- Close fire rated doors without releasing spring tension, avoiding dangerous resetting process.
- Fuselink activated.
- Simple system reset by reconnecting the fuselink.
- Required annual inspection by a trained fire door system technician is simplified.
- Systems will not automatically close upon power failure.
- Economical.

FireGard Motor Operated Systems, Bracket Mounted



UL and FM listed, industrial duty gear head operator recommended for units that normally cycle up to 20 times per day. HP Available: 1/3, 1/2 and 3/4. Available for fire doors up to 225 square feet, insulated fire doors up to 165 square feet.

Features and Benefits

- Economical.
- Spring tension is not released upon fuselink closing.
- Convenience of motor operation.
- Auxiliary Chain for emergency operation, just pull to operate.
- Average closing speed of 6 - 24" per second.

Options: Floor Level Test Switch, Sensing Devices, Release Devices, Battery Back-Up

FireGard Chain, FireGard Crank Operated Systems



Available for use on all Counter Fire Doors and Fire Doors up to 34' wide or 28' high standard construction. Crank units available to 12' high.

Features and Benefits

- Economical.
- Power not required.
- Spring tension is not released upon fuselink closing.
- Maximum closing speed of 12" per second.

Options: Floor Level Test Switch, Releasing Devices, Battery Back-Up

Auto resetting, fail safe, advanced M100 FireGard™ fire door closing systems also available in bracket mounted motor, tube motor, manual chain and manual crank.

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FireGard System Accessories

UL325 Compliant Entrapment Protection Devices for FireGard Motor Operated Systems

Per UL 325-2010, doors without a connected and properly functioning primary entrapment protection device will only function by constant pressure close operation. The primary entrapment protection devices below enable momentary contact to close operation.

- ELR Electric Sensing Edge - 2 wire monitored electric sensing/smoke seal edge. Contact with the edge before the door fully closes causes the door to immediately stop downward travel and reverse direction to the fully open position. Provide a retracting safety cord and reel or a self-coiling cable connection to control the circuit.
- Photo Eyes - Interruption of the beam before the door fully closes causes the door to immediately stop downward travel and reverse direction to the fully open position.

Optional secondary entrapment protection devices available.



Floor Level Test Device for FireGard Chain and Crank

Enables the convenience and safety of testing the fire door at floor level rather than by the fuselink above the coil. Designed for surface mounting.

Release Devices for FireGard Operating Systems*

Electro-mechanical devices enable automatic closing fire doors to respond to alarm signals from detection devices such as smoke detectors, heat sensors and central alarm signals, permitting doors to close long before high temperatures melt fusible links.

- **FireGard™ AR-D:** A fail-safe and UL listed tri-voltage releasing device that accepts 120 or 24 VAC or 24 VDC input voltage. Does not have a battery back-up system and does not require upfront electrical coordination with alarm system providers. Down limit detection prevents mechanical release of a fully closed door upon alarm signal: requires closed door signal.
- **FireGard™ DC:** Designed to tie into and receive 24 volt DC power from a central alarm system that has a back-up power source. Activation of the central alarm system will cause an open fire door to close. Connection and voltage draw coordination with the alarm system provider is required. UL listed with an adjustable alarm signal activation time delay.
- **FireGard™ BB:** Includes all the features of the FireGard DC unit, but contains its own internal battery back-up management system to support the device and provide 24 volt DC power to local detectors and warning appliances for up to 72 hours during a power outage. Accepts a 120 or 24 volt AC or 24 volt DC input power.
- **FireGard™ BV:** All the features of the FireGard BB except the battery back-up is for 24 hours and the BV adds a voice signaling board that provides two different voice warning messages upon activation. Messages are in English and are field selectable. The voice board can drive up to two 70.7v Speakers or Speaker Strobes that are sold separately.



* Note that all M100 FireGard™ Systems do not require an additional mechanical release device to respond to alarm signals from detection devices

Battery Back Up Devices

Available for FireGard AR-D Release Device above used on FireGard doors. Prevents the door from closing due to a power failure for 16 hours. Note that if both a release device and a battery back up system are desired, an M100 FireGard system is recommended.

Fire Door Annunciators

Optional safety devices that provide a visual and/or audible advanced warning the door is about to close. Can be activated upon alarm signal or loss of power when supported by a battery back-up device.

- **Horn Strobe** – ADA compliant, 24 VDC warning devices that are powered by a release device power source to provide an advanced fire door closing warning. Activation upon alarm signal and power failure and / or alarm signal only depending on release device.
- **Voice Warning Module** – An ADA compliant warning device. Provides up to four different voice warning messages upon activation. Messages are in English and are field selectable.



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