

Cornell Fire Door Closing System Accessories

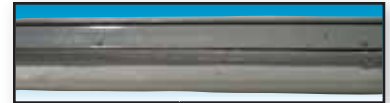
M100 FireGard™ System Accessories:

M100 Bracket Mount Operator, M100 Tube Motor, M100 Chain, M100 Crank

UL325 Compliant Entrapment Protection Devices

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. Tube Motor Operators are not currently approved to accept these devices.

- 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 Device: may be used in conjunction with a set of primary entrapment photo eyes or with constant pressure to close operation.

- Electric Sensing Edge with Wireless Edge Kit - Eliminates the need for a physical traveling electric cord connection between the bottom bar sensing edge device and the motor operator. Using a 4 Wire electric edge in conjunction with a failsafe operator or failsafe wireless kit enables the sensing edge to be self monitoring and fail safe.



Battery Back Up Devices

Prevents the door from closing due to a power failure for a minimum of 4 hours. For M100 FireGard Motor Operators the battery backup also functions as a DC power source for local warning devices and detectors to keep them functioning during a power outage and can be programmed to cycle the door a selected number of times should the sensing edge contact an obstruction during alarm signal AC power closing.



Annunciators

Optional safety devices that provide a visual and/or audible advanced warning when the door is about to close. Can be activated upon alarm signal or loss of power when supported by the operators optional 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 automatic closing of fire door system.
- 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.



Key Test Station – allows for testing of M100 system without the use of the central alarm system.

Fuselink Arrangement –fuselink and chain for applications where this back-up system is called for by specification or Authority Having Jurisdiction (AHJ).

FireGard™ System Accessories:

Bracket Mount Operator, Manual Chain, Manual Crank

UL 325 Compliant Entrapment Protection Devices – available for use on FireGard Motor Operators. See front top for descriptions.

Floor Level Test Device

Enables the convenience and safety of testing of 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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