

Model FGH fire door motor operators include the following features:

- c-UL-us Listed (UL325-2010 Compliant)
- High efficiency in-line gear reducer
- Low profile design with horizontal front of coil mounting
- Solid-state control board
- On-board open-close-stop buttons
- On-board non-resettable cycle counter
- On-board reclose timer option
- NEMA 1 enclosures
- Operating temperature min. 23 deg. F non-icing, max. 122 deg. F / Humidity <85% non-condensing
- Provisions for connection of monitored & non-monitored sensing devices (multiple monitored sensing devices optional)
- Selectable constant or momentary pressure open & close
- External radio control receiver connections
- 24 volt control circuit
- Overload protection
- Adjustable linear driven limit switches
- 3-button open-close-stop wall mount control station
- Interlocked chain hoist for emergency operation

Model FGH – “Easy-Reset” In-line Gear Drive Fire Door Motor Operator with Auxiliary Hoist

- For all fire doors in standard cycle usage (up to 20,000 cycles – not exceeding 30 cycles per hour) or high cycle usage (up to 100,000 cycles – not exceeding 30 cycles per hour) applications – *refer to HP SELECTION GUIDE for additional information*
 - Provides automatic closing without a loss of spring tension and eliminates the need for traditional mechanical reset – simply reconnect the fusible link cable and activate the open control to easily reset the door
 - Fusible link activation of internal release and governor controlled closing
 - Average operating speed of 6” to 8” per second
 - TENV motor
 - Solenoid actuated disc brake
 - Delay on reverse function (*requires door be provided with a monitored sensing device*)
 - 1 year warranty
 - 1/2, 1, and 1 1/2 HP – 115v-1ph, 230v-1ph, 208/230v-3ph, 460v-3ph, 575v-3ph
 - 2, 3, 5 and 7 1/2 HP – 208/230v-3ph, 460v-3ph, 575v-3ph
- NOTE: Consult factory for availability of other voltages and 50 Hz operators*

Environmental Modification Options**NEMA 4** – Water-tight Modification (Model FGHN4)

- Intended for installations with direct exposure to water
- Also satisfies requirements for NEMA 12 oil and dust-tight applications
- WDN motor
- Water-tight control panel enclosure, release enclosure, and conduits
- Stainless steel roller chain and hand chain
- NEMA 4 3-button control station

NEMA 4X – Corrosion Resistant Modification (Model FGHNX)

- Intended for installations in corrosive environments
- Also satisfies requirements for NEMA 4 water-tight and NEMA 12 oil and dust-tight applications
- WDN motor
- Stainless steel control panel enclosure, release enclosure, and conduits
- Corrosion resistant materials or coatings on other components where possible
- Stainless steel roller chain and hand chain
- NEMA 4X non-metallic 3-button control station

NEMA 7/9 – Hazardous Area “Explosion Proof” Modification (Model FHN79)

- Intended for installations in Class I, Division 1, Groups C & D / Class II, Division 1, Groups E, F and G locations
- UL 1203 and UL 325 Listed
- Intrinsically safe circuit for connection of standard control station and monitored sensing edge (when provided)

Per the requirements of UL Standard 325, commercial door operators must be provided with an actuating device requiring constant pressure to close the door and located within line of sight of the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. Upon monitoring a sensing system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected.



FGRL Fire Door Motor Operators w/ Lock Sensor STANDARD CONSTRUCTION

For “Easy-Reset” Counter Fire Doors & Fire Doors

Model FGRL fire door motor operators include the following features:

- c-UL-us Listed (UL325-2010 Compliant)
- High efficiency in-line gear reducer
- Low profile design with horizontal front of coil mounting
- Solid-state control board
- On-board open-close-stop buttons
- On-board non-resettable cycle counter
- On-board reclose timer option
- Operating temperature min. 23 deg. F non-icing, max. 122 deg. F / Humidity <85% non-condensing
- Provisions for connection of monitored & non-monitored sensing devices (multiple monitored sensing devices optional)
- Selectable constant or momentary pressure open & close
- External radio control receiver connections
- 24 volt control circuit
- Overload protection
- Adjustable linear driven limit switches
- 3-button open-close-stop wall mount control station
- NEMA 1 enclosures

Model FGRL – “Easy-Reset” In-line Gear Drive Fire Door Motor Operator with Internal Lock Sensor

- For all counter fire doors and smaller fire doors with locking devices in standard cycle usage (up to 20,000 cycles – not exceeding 30 cycles per hour) applications
- Provides automatic closing without a loss of spring tension and eliminates the need for traditional mechanical reset – simply reconnect the fusible link cable and activate the open control to easily reset the door
- Fusible link activation of internal release and governor controlled closing
- Average operating speed of 6” to 8” per second
- TENV motor
- Solenoid actuated brake
- Delay on reverse function (*requires door be provided with a monitored sensing device*)
- Internal lock sensor to stop opening of door upon sensing that locks are engaged
- 1 year warranty
- 1/3 HP – 115v-1ph

NOTE: Consult factory for availability of other voltages and 50 Hz operators

Per the requirements of UL Standard 325, commercial door operators must be provided with an actuating device requiring constant pressure to close the door and located within line of sight of the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. Upon monitoring a sensing system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected.

Model FS fire door motor operators include the following features:

- c-UL-us Listed (UL325-2010 Compliant)
- High efficiency in-line gear reducer
- Low profile design with horizontal front of coil mounting
- Solid-state control board
- On-board open-close-stop buttons
- On-board non-resettable cycle counter
- On-board reclose timer option
- Operating temperature min. 23 deg. F non-icing, max. 122 deg. F / Humidity <85% non-condensing
- Provisions for connection of monitored & non-monitored sensing devices (multiple monitored sensing devices optional)
- Selectable constant or momentary pressure open & close
- External radio control receiver connections
- 24 volt control circuit
- Overload protection
- Adjustable linear driven limit switches
- 3-button open-close-stop wall mount control station
- NEMA 1 enclosures

Model FS – “Auto-Reset” In-line Gear Drive Fire Door Motor Operator

- For all fire doors in standard cycle usage (up to 20,000 cycles – not exceeding 30 cycles per hour) applications – refer to *HP SELECTION GUIDE* for additional information
 - Provides automatic closing without a loss of spring tension and eliminates the need for traditional mechanical reset – simply restore power/clear alarm and activate the open control to automatically reset the door
 - Alarm activated closing controlled by governor when power is present
 - Fail safe activated closing controlled by governor upon power loss
 - Provision for connection of fusible link (when required by AHJ)
 - Selectable time delayed closing function
 - Selectable obstruction sensing, cycling and reversing functions (*requires door be provided with a monitored sensing edge – power must be present and sensing edge must be functioning properly*)
 - Selectable automatic re-open function after alarm is cleared and power is restored
 - Average operating speed of 6” to 8” per second
 - TENV motor
 - Solenoid actuated disc brake
 - Delay on reverse function (*requires door be provided with a monitored sensing device*)
 - Optional R-BBU battery backup to prevent door closing upon loss of power
 - Optional *FirePro*™ Inspectors Test Switch to verify alarm activation function of “Auto-Reset” operator
 - 1 year warranty
 - 1/3, 1/2, 3/4, and 1 1/2 HP available in 115v-1ph, 230v-1ph, 208/230v-3ph, 460v-3ph
 - 2 and 5 HP available in 208/230v-3ph, 460v-3ph
- NOTE:** Consult factory for availability of larger HP, other voltages, or 50 Hz operators

FS fire door motor operators do not have an auxiliary chain hoist for emergency operation – if an auxiliary hoist is required, consider Model FGH.

Environmental Modification Options**NEMA 4** – Water-tight Modification (Model FSN4)

- Intended for installations with direct exposure to water
- Also satisfies requirements for NEMA 12 oil and dust-tight applications
- WDN motor
- Water-tight control panel enclosure and conduits
- Stainless steel roller chain
- NEMA 4 3-button control station

NEMA 4X – Corrosion Resistant Modification (Model FSNX)

- Intended for installations in corrosive environments
- Also satisfies requirements for NEMA 4 water-tight and NEMA 12 oil and dust-tight applications
- WDN motor
- Stainless steel control panel enclosure and conduits
- Corrosion resistant materials or coatings on other components where possible
- Stainless steel roller chain
- NEMA 4X non-metallic 3-button control station

NEMA 7/9 – Hazardous Area “Explosion Proof” Modification (Model FSN79)

- Intended for installations in Class I, Division 1, Groups C & D / Class II, Division 1, Groups E, F and G locations
- UL 1203 and UL 325 Listed
- Intrinsically safe circuit for connection of standard control station and monitored sensing edge (when provided)

Per the requirements of UL Standard 325, commercial door operators must be provided with an actuating device requiring constant pressure to close the door and located within line of sight of the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. Upon monitoring a sensing system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected.



FSML Fire Door Motor Operators w/ Lock Sensor STANDARD CONSTRUCTION

For "Auto-Reset" Counter Fire Doors & Fire Doors

Model FSML fire door motor operators include the following features:

- c-UL-us Listed (UL325-2010 Compliant)
- High efficiency in-line gear reducer
- Low profile design with horizontal front of coil mounting
- Solid-state control board
- On-board open-close-stop buttons
- On-board non-resettable cycle counter
- On-board reclose timer option
- Operating temperature min. 23 deg. F non-icing, max. 122 deg. F / Humidity <85% non-condensing
- Provisions for connection of monitored & non-monitored sensing devices (multiple monitored sensing devices optional)
- Selectable constant or momentary pressure open & close
- External radio control receiver connections
- 24 volt control circuit
- Overload protection
- Adjustable linear driven limit switches
- 3-button open-close-stop wall mount control station
- NEMA 1 enclosures

Model FSML – "Auto-Reset" In-line Gear Drive Fire Door Motor Operator with Internal Lock Sensor

- For all counter fire doors and smaller fire doors with locking devices in standard cycle usage (up to 20,000 cycles – not exceeding 30 cycles per hour) applications
- Provides automatic closing without a loss of spring tension and eliminates the need for traditional mechanical reset – simply restore power/clear alarm and activate the open control to automatically reset the door
- Alarm activated closing controlled by governor when power is present
- Fail safe activated closing controlled by governor upon power loss
- Provision for connection of fusible link (when required by AHJ)
- Selectable time delayed closing function
- Selectable obstruction sensing, cycling and reversing functions (*requires door be provided with a monitored sensing edge – power must be present and sensing edge must be functioning properly*)
- Selectable automatic re-open function after alarm is cleared and power is restored
- Average operating speed of 6" to 8" per second
- TENV motor
- Solenoid actuated disc brake
- Delay on reverse function (*requires door be provided with a monitored sensing device*)
- Internal lock sensor to stop opening of door upon sensing that locks are engaged
- Optional R-BBU battery backup to prevent door closing upon loss of power
- Optional FirePro™ Inspectors Test Switch to verify alarm activation function of "Auto-Reset" operator
- 1 year warranty
- 1/3 HP available in 115v-1ph

NOTE: Consult factory for availability of other voltages and 50 Hz operators

Per the requirements of UL Standard 325, commercial door operators must be provided with an actuating device requiring constant pressure to close the door and located within line of sight of the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. Upon monitoring a sensing system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected.

Model FTS tubular fire door motor operators include the following features:

- c-UL-us Listed (UL325-2010 Compliant)
- High efficiency in-line gear reducer
- In-barrel design requiring no additional clearance
- In-line motor, gear reduction, brake and governor
- Separate wall mount control panel
- Solid-state control board
- On-board open-close-stop buttons
- On-board non-resettable cycle counter
- Operating temperature min. 23 deg. F non-icing, max. 122 deg. F / Humidity <85% non-condensing
- Provisions for connection of monitored & non-monitored sensing devices (multiple monitored sensing devices optional)
- On-board reclose timer option
- Selectable constant or momentary pressure open & close
- External radio control receiver connections
- 24 volt control circuit
- Overload protection
- Electronic limit switches
- 3-button open-close-stop wall mount control station
- NEMA 1 enclosures

Model FTS – "Auto-Reset" Tubular Fire Door Motor Operator

- For all counter fire doors in limited cycle usage (up to 10,000 cycles – not exceeding 10 cycles per hour) applications
 - Provides automatic closing without the need for traditional mechanical reset – simply restore power/clear alarm and activate the open control to automatically reset the door
 - Alarm activated closing controlled by governor when power is present
 - Fail safe activated closing controlled by governor upon power loss
 - Provision for connection of fusible link (when required by AHJ)
 - Selectable time delayed closing function
 - Selectable obstruction sensing, cycling and reversing functions (*requires door be provided with a monitored sensing edge – power must be present and sensing edge must be functioning properly*)
 - Selectable automatic re-open function after alarm is cleared and power is restored
 - Average operating speed of 6" to 8" per second
 - Optional R-BBU battery backup to prevent door closing upon loss of power
 - Optional FirePro™ Inspectors Test Switch to verify alarm activation function of "Auto-Reset" operator
 - 1 year warranty
 - 1/2 HP – 115v-1ph
- NOTE: Consult factory for availability of other voltages or 50 Hz operators*

FTS tubular fire door motor operators do not have an auxiliary release for emergency operation.

Per the requirements of UL Standard 325, commercial door operators must be provided with an actuating device requiring constant pressure to close the door and located within line of sight of the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. Upon monitoring a sensing system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected.