

Function Guide for Motorized Locks

Models 3520-300, 3520-600, 5020M and 7050M

Available Lock Functions:

- 1 Maintained Switch Latch Holdback (MSLH) – Standard
- 2 Momentary Contact Latch Holdback – Mechanical (MCLH-M)
- 3 Momentary Contact Latch Holdback – Electrical (MCLH-E)
- 4 Maintained Switch Latch Holdback with Momentary Contact Latch Holdback – Electrical (MSLH/MCLH-E)

Special Comments:

1. Control functions are depicted with maintained and/or momentary contact mechanical switches. Computer logic should match such operation.
2. With the 3020FSE, 5020S and 7050S solenoid actuated locks, the MSLH function is standard. The 2, 3, & 4 functions are optionally available.
3. With the 5520M and 5520S sliding door locks, the MCLH-E function is standard. The MSLH and MSLH/MCLH-E functions are available. The MCLH-M function is not available.
4. With functions 1, 3 & 4, manual key operation retracts the latch only. When the key is removed, the latch spring returns to the projected position. With function 2 key unlocking, the latch remains retracted mechanically (i.e. without power) until the door is opened.
5. A motor operated lock—with the MSLH function—is recommended over a solenoid actuated lock for applications requiring that a door be unlocked for a long time period (e.g. a cell door during daytime).



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1 Maintained Switch Latch Holdback (specify MSLH)

With the maintained switch in “unlock”, the motor powers the latch to the retracted (unlocked) position. The latch remains retracted mechanically (i.e. without power), with the door open or closed, until the switch is returned to “lock.” The latch is then powered to the extended position and the door can be closed for relocking. (a.k.a. “half-cycle” function). This is the standard function for all RRBSL swinging door electric locks.

2 Momentary Contact Latch Holdback—Mechanical (specify MCLH-M)

Momentary power (≤ 1 second) applied to the motor retracts the latch where it is held without power until the door is moved open far enough to release the auxiliary latch (a.k.a. deadlock trigger). At this time, the latch is extended mechanically and the door can be closed for relocking. (Note: With this function, upon electric unlocking the door must be physically moved ajar before the latch will project and allow for relocking. See MCLH-E function for remote relocking capability.)

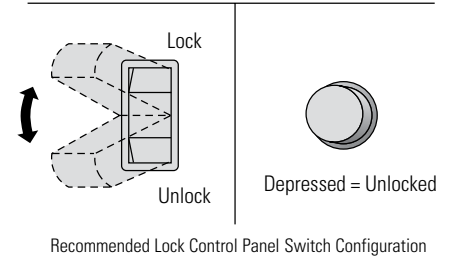
3 Momentary Contact Latch Holdback—Electrical (specify MCLH-E)

Momentary power (≤ 1 second) applied to the motor retracts the latch where it is held without power until the door is moved open far enough to release the auxiliary latch (a.k.a. deadlock trigger). At this time, the latch is extended electrically and the door can be closed for relocking. (Note: With this function upon electric unlocking, the latch can be projected to relock the door via a separate switch at the control panel without opening the door as required with the “MCLH-M” function.)

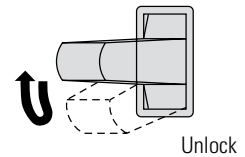
4 Maintained Switch Latch Holdback with Momentary Contact Latch Holdback—Electrical (specify MSLH/MCLH-E)

With a three – position switch, functions 1 and 3 can be combined into a single control station.

Two-position maintained contact switch **OR** Alternating action pushbutton switch



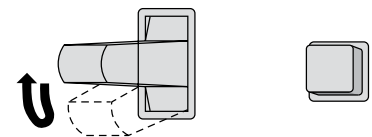
Momentary contact switch



With momentary depression of switch, unit will unlock and automatically reset for slam-locking of door. Door must be opened for the lock to reset.

Recommended Lock Control Panel Switch Configuration

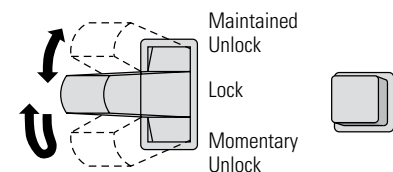
Momentary contact switch Relock switch



With momentary depression of switch, unit will unlock and automatically reset for slam-locking of door. Unit may be reset (relocked) without opening the door by depressing the relock switch.

Recommended Lock Control Panel Switch Configuration

Momentary contact switch Relock switch



MSLH and MCLH-E switch configurations combined into a three-positioned maintained–maintained–momentary switch

Recommended Lock Control Panel Switch Configuration