HiTower® ZR7500 and R7500 Series



The ZR7500 HiTower® easily retrofits SDC's previous Model 5000 HiTower® door preparation or other major mortise lock brands with only a slight modification to the existing door preparation. The ZR/R7500 incorporates the same design features used on SDC's Model 7500 HiTower®.

SDC's patented and U.L. Listed HiTower® locks have established a high standard of safety and security for stair tower doors, and for other dual-locking and latching door requirements for many years. It is the only lock of this type that can deadlock the mortise lock directly by the actuator with no auxiliary dead locking cam linkage required. This simplified action adds both greater security and increased reliability.

A built-in shock absorber keeps the lever action smooth, to prevent any binding pressure or other potential damage to components.

The complete SDC ZR7500 HiTower® utilizes a mechanically modified SDC mortise lock in the door and with the SDC electric actuator in the door frame. SDC also performs lock conversions of customer supplied Schlage L9080 mortise locks (source code R7500). SDC modifies the mortise lock and provides the electric actuator.

Features

- U.L. Listed heavy-duty mortise lock in door, with .75" throw deadlocking mortise latch bolt.
- SDC electric actuator in the frame. No electric mortise lock set and no wiring through the door. No power transfer hinge required on single doors. Failsafe.
- Small size of actuator allows installation in standard 2" hollow metal frames.
- Actuator assembly is sealed. No internal working parts are exposed.
- Actuator mechanism does not project beyond frame. No electric bolt to bind or jam due to door misalignment.
- Horizontal compensation for door clearance of up to 0.3125" to ensure deadlocking.
- Full monitoring is available with the optional SPDT sensors. Latch and door position sensor is (L). The door secure sensor (S) incorporates both the latch/door position sensor in addition to monitoring the HiTower® locking mechanism.
- Locking operation deadlocks the latch bolt, and internally blocks rotation of outside and/or inside lever.
- Key operation directly retracts the latch bolt even though the outside trim remains rigid until door is pulled open.
- Designed to interface with standard access systems.

Specifications

Operating Voltages
• 24 VDC • 24 VAC • 115 VAC

Power Consumption
450 mA @ 24 VDC
500 mA @ 24 VAC
200 mA @ 115 VAC

Building Code Compliance
NFPA, IBC, IFC, UBC, SBC and BOCA.

Factory assistance in retrofit installations.

R7500 Series Operation

The locking action is provided entirely by the mortise lock in the door. Remote control is by the ZR/R7500 Series HiTower® electric actuator in the frame.

Locking functions needed to meet normal operating requirements are available, including access controls for locking or unlocking, plus mechanical or electric key switch control, or mechanical lever operation.

Protected by one or more of the following U.S. Patents:

6,363,363	5,876,073	4,623,181	4,634,155
4,596,411	4,623,178	4,641,867	6,363,763

#3774-0324:101

c UL us LISTED
GYQS Electrically Controlled
Single Point Lock or Latch

MEA/CNY
678-80-SA

Functions

7530 Failsafe. Inside and outside lever locked. Mortise lock is unlocked by remote switch, access controls or by means of a key from either side.
Suggested use: Communicating doors, Mantrap doors.

7550 Failsafe. Outside lever locked. Mortise lock is unlocked by remote switch, access control or by means of an outside key, or by rotating the inside lever.
Suggested use: Office doors Stairtower doors, laboratories, storerooms.

Model

Source code
ZR SDC Mortise lock with trim. SDC supplies complete mortise lockset for HiTower®
R Schlage L9080. Customer supplies lock set for conversion to HiTower®

Handing

Hand of Door
L - Left Hand
R - Right Hand
LR - Left Hand Reverse
RR - Right Hand Reverse

Voltage

Voltage and Frame Face Size
A 115VAC x 2" **B** 24VAC x 2" **C** 24VDC x 2"

Finish

C 605 Bright Brass
D 606 Satin Brass
F 611 Bright Bronze
G 612 Satin Bronze
H 613 Oil Rubbed Bronze
P 625 Bright Chrome
Q 626 Satin Chrome
S 629 Bright Stainless
U 630 Satin Stainless (Standard)

Lever Trim

Lever handles are specified with SDC supplied locksets, source ZR.



G Galaxy with rose



E Eclipse with rose



N Nova with rose



GE Galaxy with escutcheon



EE Eclipse with escutcheon



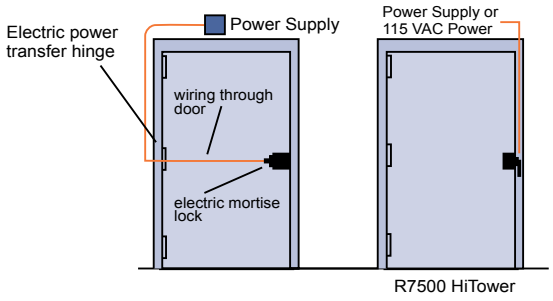
NE Nova with escutcheon

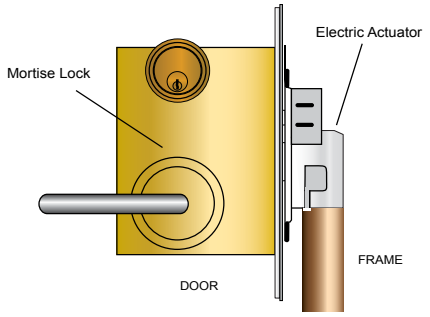
Options

L SPDT Latch Position Sensor, 5 Amp max.
S SPDT Door Secure Sensor, 3 Amp max. (incorporates Latch Position Sensor)
SC-10 10 ft cable with connectors (Lock power only)
SC-10-5 10 ft cable with connectors (Lock power and options)

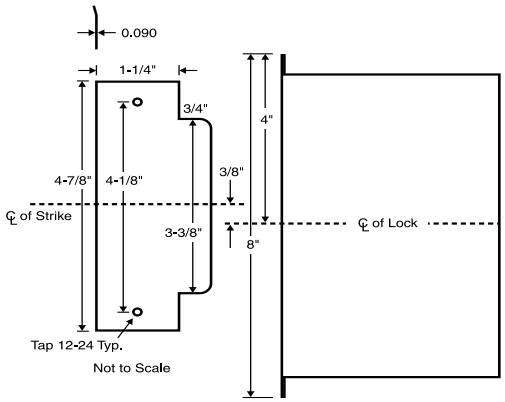
SDC HiTower® Advantages

Standard electric mortise locks require:
1) Electric Lockset **2) Power Transfer Hinge**
3) Wiring Through Door **4) Separate Transformer**

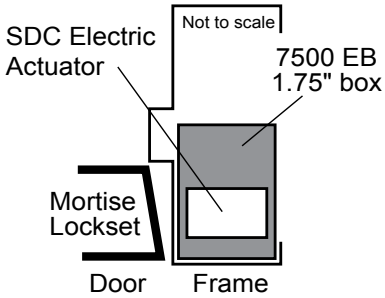




ZR/R7500 Mortise Lock and Strike Alignment



ZR/R7500 Installation with Back box



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