NL LOCK

Straight Bolt
EM35•50 Instructions - *DIA Board*
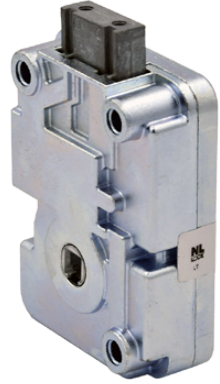
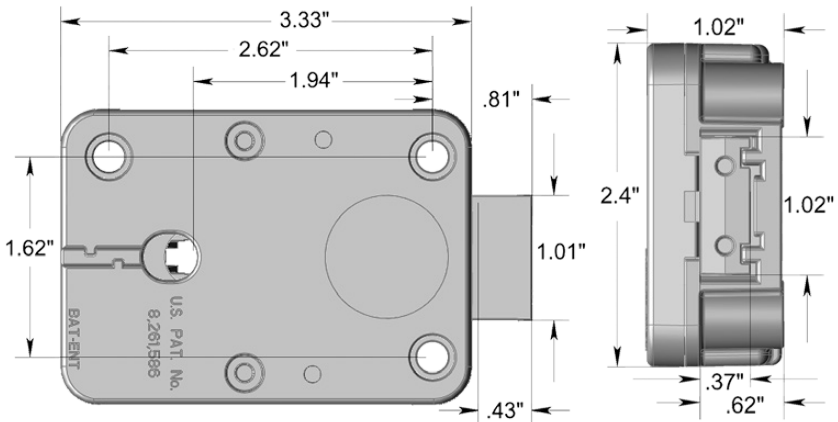## Works With:

Premier
PI20•Rx

THinPut
TH20•xx

EasyTouch
ET20•xx

Straight Bolt Dimensions
(Imperial)

3.33"
2.62"
1.94"
.81"
1.62"
1.01"
U.S. PAT. No. 8.261586
BAT-ENT
.43"

1.02"
2.4"
1.02"
.37"
.62"

UL Type 1
VdS EN1300 Class B

UL

VdS

SECURITY
PRODUCTS

NL LOCK
Straight Bolt
EM35•50 Installation - *DIA Board*

STRAIGHT BOLT DB-35-LH

FEATURES

The EM35-50 features a 6-digit Manager code and up to 9 user codes. Entering a valid code starts a 3 second window for unlocking, allowing the lock bolt to be retracted by turning either a rotating keypad or a knob, as on the EasyTouch ET20•xx. The safe boltwork can then be moved into the OPEN positon. After restoring the safe boltwork to the fully LOCKED positon and extending the lock bolt by rotating the keypad or knob CCW, the EM35•50 automatically secures.

MOUNTING INSTRUCTIONS

The EM35•50 may be mounted in any of the four mounting directions (LH, RH, VU or VD). Mounting dimensions are industry standard.

Temporarily secure the lock body to the mounting surface with supplied mounting screws.
Insert the grooved spindle shaft through from the face of the door until it bottoms out in the lock body.
Ensuring that any adapter or trim plates are in place, use the included measuring device to mark the spindle for cutting. The spindle must extend .24" from the mounting surface of the keypad after cutting to properly engage with the chosen keypad. Deburr/square the cut end of the spindle. Unmount the lock body.
Insert the spindle into the chosen keypad and press the wire into the groove in the spindle.
Feed the cable though the hole in the door, then follow separate instructions for keypad mounting.

With the lock body in hand, feed the keypad cable connector through the square opening on the underside of the lock case. Holding the cable straight, place the lock body over the grooved spindle and screw it securely to the mounting surface. Use only the supplied 1⁄4-20 (or M6) screws to mount the lock. Tighten the screws securely so the lock body is firmly attached to the flat mounting surface. Use of screw locking glue (i.e. LocTite) is recommended. Insert the connector from the keypad into the outer lock housing receiver labeled ENT. Ensure that the connector is fully seated. To remove the connector, carefully lift and pull away from the lock body. To secure the cable, push it into the square groove on the lock cover. Secure any excess away from moving parts.

ELECTRONICS TEST

Like all NL Locks, the Straight Bolt includes Function **5** - a unique feature to test for proper functioning of the electronics:

- Press and hold 5 until double beep and the LED stays on
- Enter all keys in numerical sequence: **1-2-3-4-5-6-7-8-9-0**
- A double beep at each key press indicates that the lock and keypad are communicating and performing properly
- A long signal indicates a fault that can likely be corrected by replacing the keypad
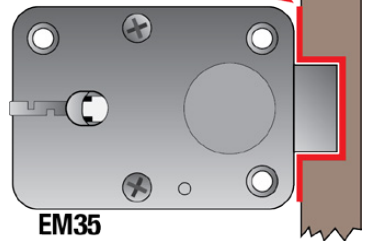
FUNCTIONAL TEST *(With door OPEN)*

Enter valid code or factory code (**5-5-5-5-5-5**), double beep = valid entry

- Rotate keypad or knob CW to retract lock bolt
- The bolt must move freely
- Turn boltwork handle to OPEN position
- Turn boltwork handle to the LOCKED position
- Rotate keypad or knob CCW to extend lock bolt
- The bolt must fully extend and secure
- Ensure that there is at least 1/16" clearance on **ALL** sides of the lock bolt when the safe boltwork is in the fully LOCKED position

IMPORTANT: Repeat the functional test several times before locking the safe door!

min.1/16" **REQUIRED** (1.5mm) **CLEARANCE**

EM35

BOLTWORK REQUIRMENTS

In the LOCKED position, the required distance between the lock bolt and the cavity in the movable boltwork must be a minimum of 1/16"

UL Type 1
VdS EN1300 Class B

NL LOCK
Straight Bolt
EM35•50 Operation - *DIA Board*

GENERAL

The EM35-50 features a 6-digit Manager code and up to 9 user codes. A double beep follows entry of a valid code. A long beep follows entry of an invalid code. If 10 seconds elapse without a key press, the code entry will be cancelled.

OPENING

Enter code (factory code = **5-5-5-5-5-5**), double beep = valid entry
Rotate keypad or knob CW to retract lock bolt
If not opened within 3 seconds, the lock re-secures automatically
Turn boltwork handle to OPEN position
If the first code entry fails, wait 10 seconds before re-entering

Locking / Status:
Turn boltwork handle to the LOCKED position
Rotate keypad or knob CCW to extend lock bolt
Verify locked/secure status by attempting to rotate handle

Manipulation Protection:
Upon entry of four consecutive invalid codes, the keypad is blocked and will not accept entries for 5 minutes. During this period, the LED flashes every 10 seconds and any key press causes a long beep. Upon expiration, the entry of two more invalid codes restarts the 5 minute blocking period.

Best Practices
Change the factory code before you begin using the safe! Securely store all codes.
Do not use personal data (i.e. birthdays, telephone numbers, etc.) as a code.

LOW BATTERY INDICATION

NOTE: A series of beeps following code entry indicates a weak battery that must be replaced
Use ONLY Energizer™ or Duracell™ 9V ALKALINE batteries

DIA Functions

To change code (Function #0)
To activate users (Function #1)
To disable/enable users (Function #2)
To delete user (Function #3)
Lock/Keypad functional test (Function #5)
Lock audit function (Function #7)
Set time delay parameters (Function #9)

For Complete DIA Instructions, please refer to DIA Board Technical Reference Manual

To view our full line, product updates, instruction manuals and warranty