NL LOCK Straight Bolt
EM35•50/55 DIA / DIA *Pro* Instructions

Works With:

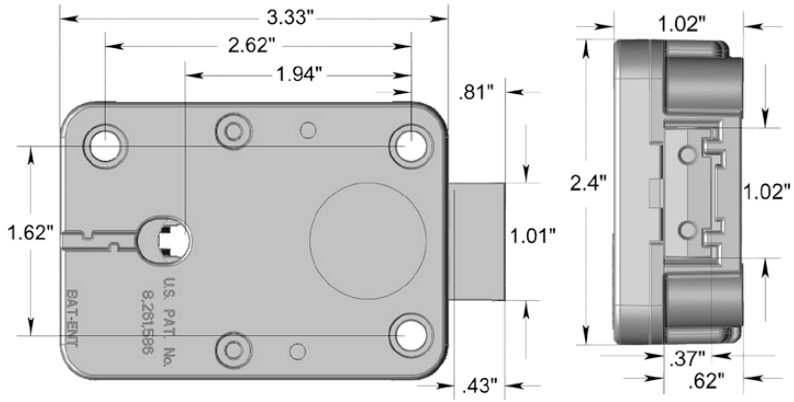
Premier
PI20•Rx

Premier Dallas
PI30•Rx

THinPut
TH20•D6

EasyTouch
ET20•Rx

Straight Bolt Dimensions
(Imperial)



UL Type 1
VdS EN1300 Class B

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EM35•50/55 DIA / DIA Pro Installation

FEATURES

The EM35•50 DIA features a 6-digit Manager code which can be used to activate or delete up to 9 User codes. The EM35•55 DIA Pro features 8-digit code length, 1 Manager, 1 Master (optional) and up to 39 User codes. Selectable features include Dual Control and Time Delay. Options include Audit Trail and Dallas Key verification (w/appropriate keypad); Alarm interface w/duress and remote code disable (w/optional alarm interface board).

MOUNTING INSTRUCTIONS

The EM35•50/55 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:

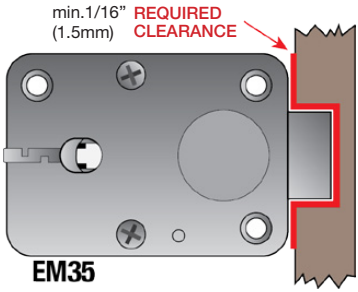
- Press and hold 5 until double beep and the LED stays on
- Enter all keys in numerical sequence: **1-2-3-4-5-6-7-8-9-0**
- A double beep at each key press indicates that the lock and keypad are communicating and performing properly
- A long signal indicates a fault that can likely be corrected by replacing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

FUNCTIONAL TEST *(With door OPEN)*

Enter code (factory code = 1 OR 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!



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"

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GENERAL

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. Entering a valid code starts a 3 second window for unlocking, enabling manual lock bolt retraction with knob or rotating keypad. The safe boltwork can then be moved into the OPEN position. After restoring the safe boltwork to the fully LOCKED position and extending the lock bolt by rotating the keypad or knob CCW, the EM35 automatically secures.

OPENING

Enter code (factory code = 1 OR 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/DIA Pro 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 or DIA *Pro* Instructions, please refer to the appropriate Technical Reference Manual available at: QSecurityProducts.com/Resources

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

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Straight Bolt EM35•50/55 DIA / DIA *Pro* INSTRUCTIONS • Rev. 2407 • © 2024 QSecurity Industries

WHO is QSecurity?

QSecurity is owned by Clay Miller and Wes Day. Staff includes industry veterans Deanna DeBorde, Frieda Ellis, Ellis Gibbs, Ryan Griffeth, April Truitt, Lisa Young & others and is ever expanding. QSecurity Products, QSecurity Education, and QTactical are all divisions of QSecurity Industries, the parent company.

WHAT is QSecurity?

QSecurity is the new name for a decades-old security technologies and education company headquartered in Nicholasville, Kentucky. QSecurity began as Lockmasters, Inc.®, the locksmith education company founded by Harry C. Miller, Jim Taylor and Leonard Singer in 1955. Clay Miller and his team took over operations from Harry Miller in 1981, expanding into tool and equipment sales to the trade in 1982. The following decade saw the birth of LockNet, SAVTA and the X0-7. In 2005, Mark Miller took over the tool & equipment division, moving it into a purpose-built location just up the road on John Watts Dr. Ever eager for expansion, Mark subsequently took over the Lockmasters Education Division in 2013. Clay Miller and his engineering team remained in the S. Main Street location, focused on R&D for the clandestine world as LTI: Lockmasters Technologies, Inc. and QTactical. Just prior to his passing in 2020, Clay Miller's son Mark Miller sold Lockmasters to the Dominus Group. As a contingency of the sale, the Miller family was compelled to relinquish their rights to the Lockmasters trademark – FOREVER. LTI was forced to rebrand, and Q Security was born.

WHY QSecurity?

The Millers have long been loyal James Bond fans. Who doesn't remember "Q," the Quartermaster of MI6, the British Secret Service? One of the most enduring characters throughout the Bond franchise, Q headed up Q Branch, the R&D division which supplied Bond with a stunning array of offensive and defensive gadgets over the years. When a rebrand became inevitable, the incorporation of "Q" seemed a novel but logical choice.

WHERE is QSecurity?

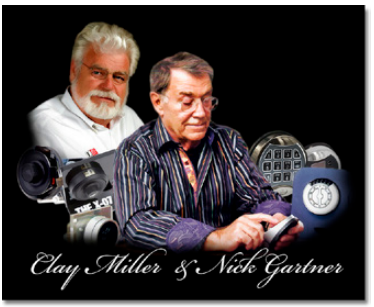
Over the years, Lockmasters, LSI and LTI have all called 1014 S. Main Street, Nicholasville, Kentucky home. The 22,000 sq. ft. facility is now the headquarters for all QSecurityIndustries divisions - as well as NL Lock.

Conveniently located in the heart of Nicholasville, Kentucky, QSecurityIndustries is proud to have LockNet, Sargent & Greenleaf, Lockmasters and MBAUSA as local neighbors.

NL Lock - *What's the connection?*

Legendary inventor Nick Gartner and Clay Miller have worked both together and separately in the high-security safe lock industry since the late 1960s when Harry C. Miller hired Nick at Sargent & Greenleaf in Rochester, NY. Nick eventually left S&G to found LaGard, where he developed many industry firsts: the first electronic safe lock, the HPC 1200 key machine, the 2200 key lock for safes, the SmartGard, and many others.

With Nick's health declining, in early 2023 he and Clay Miller entered discussions regarding the future of NL Lock. In late August, they inked a deal to transfer the company assets to QSecurityIndustries, and on September 5, 2023, Nick passed away, knowing his brainchild had a secure future with an industry veteran and friend who would take his innovations forward.



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