



Premier Keypad **PI20-Dx** Straight Bolt **EM35-50 DIA** **ROTATING** Instructions

FEATURES

PI20-Dx is a rotating keypad for use with the EM35-xx Straight Bolt lock
Battery: Accessible via a sliding door at the keypad base
Finishes: Black Velvet or Bright Chrome (ABS), Brushed Chrome (metal)
Enhanced Visibility: Built-in LED lights for use in low-light conditions

MOUNTING INSTRUCTIONS

Cable hole diameter: 3/8" (.953mm) minimum

The hole must be properly deburred to avoid cable damage

The PI20 mounts on horizontal (9 & 3 o'clock) studs, optional MA-2 adapter plate required for vertical safe door mounting holes

Temporarily secure the lock body to the mounting surface with supplied mounting screws. **fig. 1**

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 round white plastic 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 keypad. **fig. 2**

Deburr/square the cut end of the spindle.

Unmount the lock body

Open the keypad battery door and extend the battery connector cable out of the battery door to prevent cable damage

Insert the spindle into the keypad and press the keypad wire into the groove in the spindle

Align the tabbed P171 Bearing Plate with the mounting holes in the door (or the MA-2 Adapter Plate)

Dual locking tabs **MUST** be facing UP (See P171 Bearing Plate) **fig. 3**

Affix the Bearing Plate to the safe door with two #8-32 (or M4) mounting studs

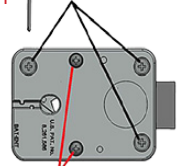
Feed the keypad cable through the hole in the door

Align keypad base plate holes to the mounting studs so the input is flush with the safe door (or MA-2 Adapter Plate)

Turn the keypad CW until it clicks into place (if you don't hear the click it is not installed correctly) **fig. 4**



Phillips Head MOUNTING SCREWS
fig. 1



Assembly Screws DO NOT REMOVE

fig. 2

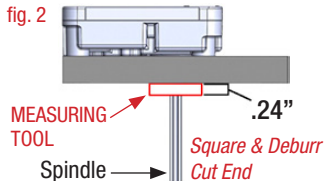


fig. 3

P171 Bearing Plate

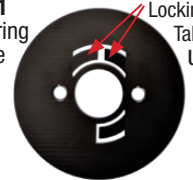


fig. 4



Premier Keypad **PI20-Dx** Straight Bolt **EM35-50 DIA**

ROTATING Instructions

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 **fig. 5**

Use only the supplied 1/4-20 (or M6) screws to mount the lock
Use of screw locking glue (i.e. LocTite) is recommended)

Tighten the screws securely so the lock body is firmly attached to the flat mounting surface

Insert the connector from the keypad into the outer lock housing receiver labeled ENT, ensuring 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 **fig. 6**

Attach 9v battery to connector
Insert battery into keypad and slide the door closed

Use **ONLY** Energizer or Duracell ALKALINE
or LITHIUM batteries.

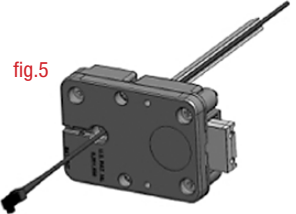


fig. 5

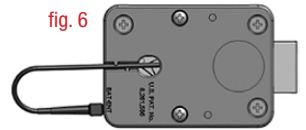


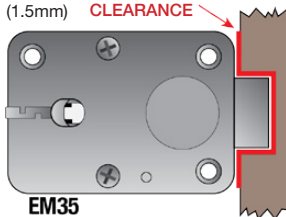
fig. 6

fig. 8



To remove the keypad once it is snapped into place, remove battery and depress Bearing Plate locking tab (accessible through battery door) while turning keypad slightly CCW **See: fig. 8**

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



BOLTWORK REQUIREMENTS

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



Premier Keypad **PI20-Dx** Straight Bolt **EM35-50 DIA** **ROTATING** Instructions



FEATURES

The EM35-50 DIA features a 6-digit Manager code which can be used to activate or delete up to 9 User codes. Selectable features include Dual Control and Time Delay. Options include alarm interface w/duress and remote code disable (w/optional alarm interface board).

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.

ELECTRONICS TEST

Like all of our 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

LOCKED



BOLT RETRACTED



Premier Keypad **PI20-Dx** Straight Bolt **EM35-50 DIA** **ROTATING** Instructions



PROGRAMMING TIME DELAY • INITIAL SET-UP

Delay Range: 0-99 minutes

Open Window Range: 1-19 minutes

Press and Hold [9] (double beep), then release

The LED remains on during the following actions:

- Enter six-digit Primary code (double beep)
- Enter delay then open window times in two-digit values (double beep)

For Example: to program a 26 minute delay and 12 minute open window, enter: **[2612]**

- Re-enter new delay and open window times to confirm (double beep indicates valid operation and LED will go out) NOTE: A long beep following any entry indicates an invalid or out of range entry.

OPEN WITH TIME DELAY ACTIVATED

Enter valid six-digit code: ex. 1-2-3-4-5-6 (factory code)

Beep and LED flash at each key press

Double beep at last digit = valid code

Time delay counting starts, LED flashes every 2 seconds

When delay period elapses, open window period begins, indicated by an alternating LED flashes and beep sounds every 1 second

- Re-enter valid six-digit code
- Double beep at last digit = valid code
- Within 3 seconds, turn keypad or knob to the OPEN position

CHANGING TIME DELAY VALUES

Begin time delay by entering a valid code

Once the delay period has elapsed and during the open window, press and hold [9] until the LED remains ON, then release

- Enter the six-digit Primary code (double beep), LED will remain ON
- Enter new delay and open window times in two-digit values (double beep)
- Re-enter new delay and open window times to confirm
- Double beep = valid operation and LED will go out)

NOTE: To cancel/remove time delay, enter [0001] during the open window

Decreasing the time delay period may be done only during the open window period



For complete programming instructions
Please see the DIA technical manual at:

QSecurityProducts.com/Resources

