

THinput Keypad

TH20-D6 Installation



DESCRIPTION

TH20-D6 is a low profile, dual-use keypad. With the included reversible Bearing Plate it may be used either as a stationary keypad to control RotoBolt and MotorDrive locks, or as a rotating keypad to retract the bolt on EM35 Straight Bolt locks.

FEATURES

Power: requires either optional 9V Battery Box (N7010) or one of our power regulator boxes for wiring to external power sources. During low battery situations or power outages, a 9V battery may be temporarily connected to the strategically placed 9V contacts at the keypad base.

Finish: Black Textured

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

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

Depending on the chosen lock body, proceed with either A or B instructions below:

A. STATIONARY INSTALLATION - UR40 or UR20

Universal RotoBolt, EM20 Large RotoBolt or EM30 MotorDrive locks

Attach bearing plate (Fig 1) to the safe door using two mounting studs at 9 and 3 o'clock. Important: be sure the lettering on the plate is facing out and the plate is oriented for the stationary function.

Thread the keypad cable and connector through the spindle hole in the safe door, ensuring that the cable lays in the slot (Fig 2) and will not be crushed or bound when the keypad is installed.

Align the keypad base plate holes with the mounting studs so the keypad is flush with the safe door. Rotate the keypad 15 degrees CW until it snaps into place (if you don't hear a click it is not installed correctly). Follow installation instructions for the desired lock body and battery or power regulation box.

NOTE: the UR40 or UR20 Universal locks have a single cable receptacle and require an Auxiliary Battery Box #N8040.

For setup, code change, dual user and/or time delay, see separate lock Operation Instructions AND/OR the appropriate DIA Technical Manual.

B. ROTATING INSTALLATION - EM35 Straight Bolt lock

Attach bearing plate (Fig 3) to the safe door using two mounting studs at 9 and 3 o'clock. Important: be sure the lettering on the plate is facing out and the plate is oriented for the rotating function.

Temporarily secure the lock body to the mounting surface with supplied mounting screws. (Fig 4)

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 white plastic measuring device included with the EM-35 to mark the spindle for cutting.

fig. 1
Bearing Plate
Dual Locking Tabs DOWN

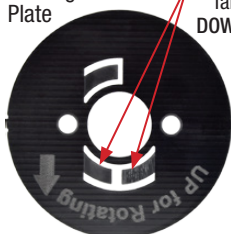


fig. 2
cable slot



fig. 3
Bearing Plate
Dual Locking Tabs UP

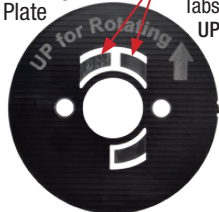
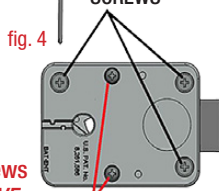


fig. 4
Phillips Head MOUNTING SCREWS



Assembly Screws
DO NOT REMOVE



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The spindle must extend .24" from the mounting surface of the keypad after cutting to properly engage with the keypad. (Fig 5)

Deburr/square the cut end of the spindle.

Unmount the lock body.

Insert the spindle into the keypad and press the keypad cable into the groove in the spindle. (Fig 6)

Feed the cable and spindle through the spindle hole.

Align the keypad base plate holes with the mounting studs so the keypad is flush with the safe door.

Rotate the keypad 15 degrees CW until it snaps into place (if you don't hear a click it is not installed correctly).

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 (Fig 6), place the lock body over the grooved spindle and fasten it securely to the lock mounting surface.

Use only the supplied 1/4-20 (or M6) screws to mount the lock.

Use of screw locking glue (i.e. Loctite) is recommended.

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. (Fig 7)

Secure any excess cable away from moving parts.

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KEYPAD REMOVAL

To remove the keypad once it is snapped into place, insert a stiff wire through slot in keypad base (between battery contacts), depress Bearing Plate locking tab and turn keypad slightly CCW. (Fig 8)



fig. 5

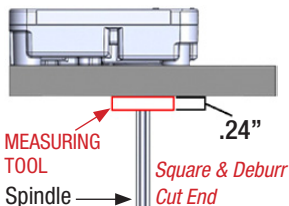


fig.6

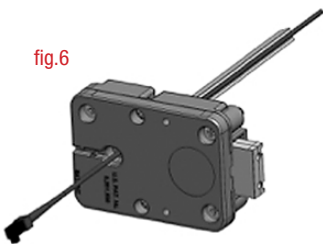


fig. 7

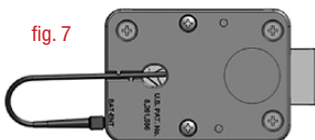


fig. 8



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Nicholasville, Kentucky 40356 • 859.241.2063