



3402 SURFACE MOUNT DROP BOLT MOUNTING INSTRUCTIONS

The 3402 Drop bolt Lock is fail safe & designed for ease of mounting in a variety of surface mount door applications.

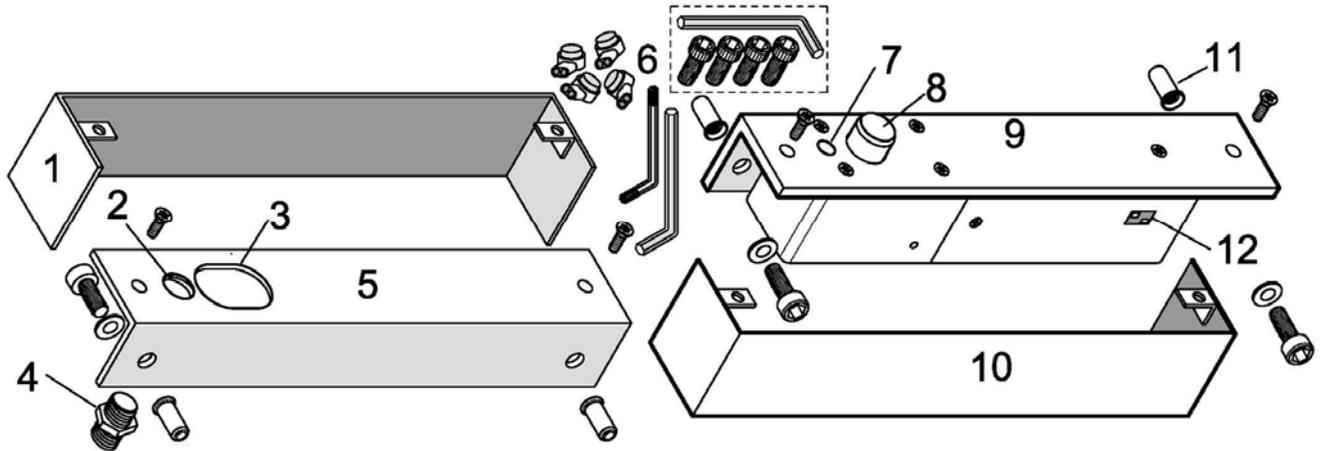


FIG. 1 LOCK AND RECEIVER PARTS

- | | | | | | |
|---|------------------------------|---|-------------------------|----|--------------------|
| 1 | Receiver plate Housing Cover | 5 | Receiver Plate Angle | 9 | Lock Angle Plate |
| 2 | DPS Magnet Threaded Mount | 6 | Hardware Kit (Included) | 10 | Lock Housing Cover |
| 3 | Bolt catch | 7 | Door Position Sensor | 11 | Threaded Insert |
| 4 | Magnet with Locking Nut | 8 | Bolt | 12 | Time Set Switches |

PREPARATION

Remove the two screws on each end holding the housing covers on both the lock body and the receiver plate with the enclosed Pin-Torx security bit. Remove the housing covers and set them aside. Four 1/4-20 cap screws and an Allen wrench have been included in the mounting hardware kit. Another kit contains expanding threaded inserts & cap screws. Either method of mounting may be utilized. The screw threads are not the same in these kits, keep screws separate.

THE 3402 MOUNTING TEMPLATE

Use the supplied template to mark the door for drilling either four 3/8" holes for the expanding threaded inserts or four tapped 1/4" x 20 holes for the cap screws. Drill a 3/8" access hole for the wiring. Dress the wire access hole to prevent scoring the insulation.

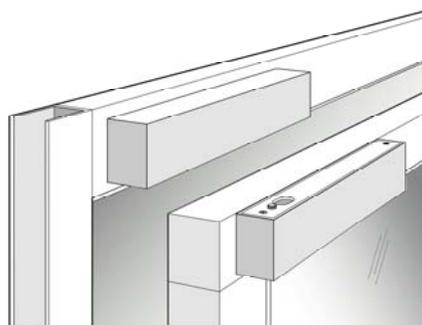
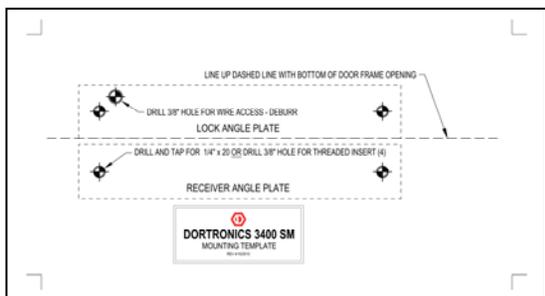


FIG. 2 3402 SURFACE MOUNT LOCKS

3402 WIRE CONNECTIONS

The Bolt Position Switch has both a normally closed and a normally open output. Typically only one set of contacts is used. **Normally open contacts close when bolt is engaged.**

The Door Position Sensor has both a normally closed and a normally open output. Typically only one set of contacts is used. **Normally open contacts close when door is closed.**

The drop bolt is **always powered** when the door is locked for **fail safe** operation.

A mating plug with wire tails is provided. Be sure the plug is oriented correctly so that the wire colors match the legend printed on the lock body.



FIG. 4 PIGTAIL PLUG

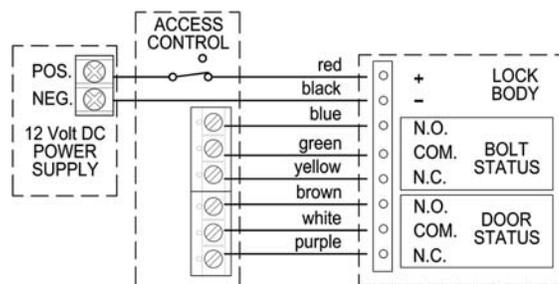
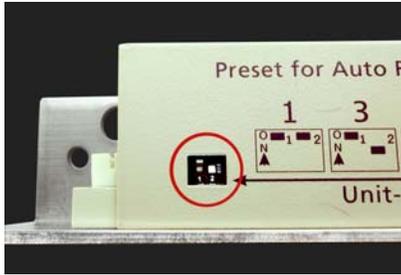


FIG. 3 WIRE CONNECTIONS

SETTING THE TIME DELAY



The time delay is selectable by means of a pair of switches accessible at the side of the lock body (FIG 1- 10).

With the lock body up and the mounting plate facing down, the set the switches as shown at the right for the desired delay time.

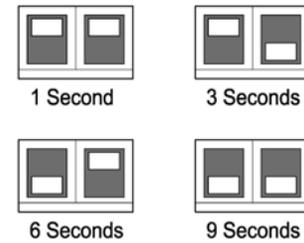


FIG. 5 SWITCH SETTINGS

MOUNTING THE LOCK AND RECEIVER PLATE

Make connections with the wiring from the access control system to the pigtails provided. (Fig 1 - 4). Set the time delay desired (Fig 5). Be sure to observe the correct color code. The plug is polarized to prevent improper insertion. Do not attempt to force the plug into the header.

Mount the lock body to the jamb frame using the screws provided. Note: the wire exit hole. Make sure that the any wire access drilled through the frame is properly dressed to prevent cutting the wire insulation.

ADJUSTING THE DOOR POSITION SENSOR

The sensitivity of the door position sensor must be adjusted for proper operation once the lock has been installed. The magnet (Fig 1-5) is threaded and fixed in position with a locking nut.

To accommodate various door gaps, the Door Position magnet may be rotated to a position that will ensure reliable action of the door position sensor (Fig 1 -7). **Note: the bolt will not engage the receiver plate unless the door position sensor indicates that the door and strike are correctly aligned.**

To make the adjustment, loosen the locking nut, rotate the door position magnet body until the lock engages when the door and receiver plate are aligned while making sure that the magnet body does not interfere with the door.

INSTALL THE HOUSING COVERS

Once the door position and time delay have been set, finish the installation by attaching the housing covers to the lock and the receiver plate. Use the tamper resistant screws provided.

SPECIFICATIONS:

POWER INPUT:	12 VDC
CURRENT DRAW:	0.9 Amp PULL-IN, 0.3 Amp HOLDING @ 12 VDC
TEMPERATURE RATING:	14 -113° F (-10 to 45° C)
OPERATING TEMPERATURE:	Ambient Temperature 68° F (+ 20°C)
RELOCK DELAY TIME SETTINGS:	1, 3, 6 or 9 Seconds
FACEPLATE MATERIAL:	Stainless Steel
HOUSING COVER MATERIAL:	Stainless Steel
BOLT POSITION CONTACT RATING:	1 Amp @ 24 VDC Max. – Do not apply Line voltage.
DOOR POSITION CONTACT RATING:	1 Amp @ 24 VDC Max. – Do not apply Line voltage.



Product Warranties:

3400 Series Drop Bolt Locks have a One Year Warranty against defects in material and workmanship. Defective units will be replaced or repaired based upon incoming evaluation and inspection.

All other Dortronics components of the Electric Locking System shall be similarly warranted for a period of one year. Expressed warranties are conditionally based on the requirement that the items covered within the guarantee are used and maintained in accordance with the manufacturer's recommendations.

A Return Authorization Number must be obtained and accompany all returns within 14 days of issue. Unused items returned for credit must be complete and packed in original unit box and are subject to a 15% restocking fee. Any shipping or order discrepancies must be reported within 5 days of receipt.

Contact (Sales):

Mike Palermo – Sales/Customer Service

Stuart Arthur – Sales/Applications Specialist

Bryan Sanderford - National Sales Manager]

Contact (Technical):

Joe Hanna – Engineer/Applications Specialist

Contact (Credit):

Teri Harboy – Accounting; New Customer Accounts

Dortronics Systems Inc. 800-906-0137 Fax 631-725-8148 www.dortronics.com