



3412 DROP BOLT MOUNTING INSTRUCTIONS

The 3412 Drop bolt Lock is fail safe & designed for ease of mounting in a variety of door applications.

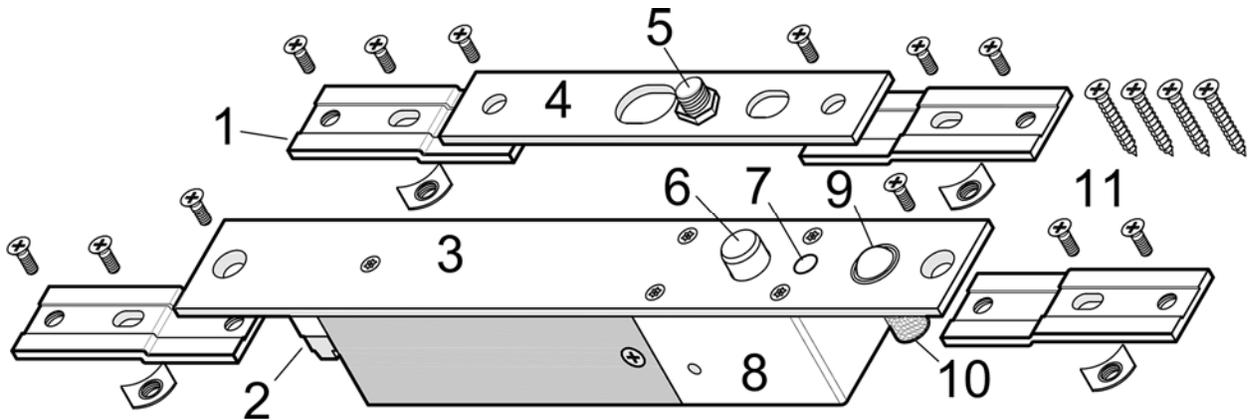


FIG. 1 LOCK AND RECEIVER PLATE

- | | | | |
|---|---------------------------------|----|----------------------------|
| 1 | Mounting Tabs (4) | 7 | Door Position Sensor |
| 2 | Wire Connection Terminal Block | 8 | Lock Body |
| 3 | Mounting Plate | 9 | Ball Catch |
| 4 | Receiver Plate | 10 | Ball Catch Pressure Adjust |
| 5 | Adjustable Door Position Magnet | 11 | Included Hardware |
| 6 | Bolt | | |

USING THE 3412 MOUNTING TEMPLATE

Determine the correct mounting configuration for the application. Before beginning, make sure the all of the required hardware and any adaptor plates that might be needed (such as for Herculite mounting) are available.

Use the supplied template to mark the door and jamb for preparation for mounting the 3412 Drop Bolt Lock.

Figure 3 shows other mounting configurations and the part numbers for each.

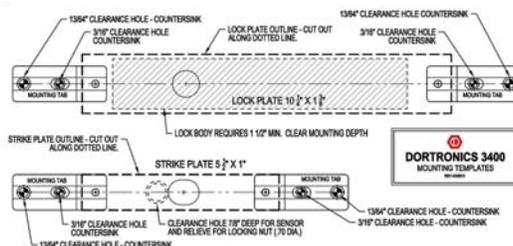


FIG. 2 3412 DRILL TEMPLATE

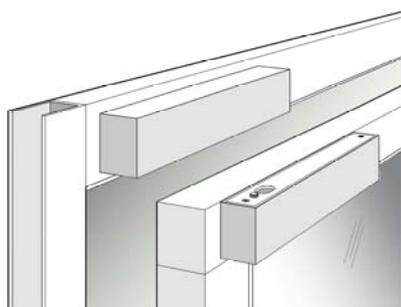
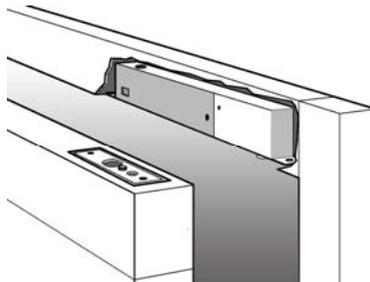
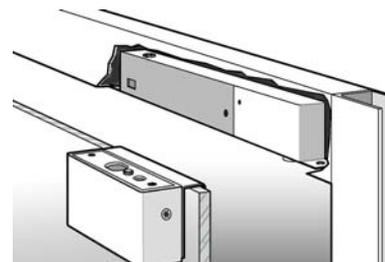


FIG. 3 3402 SURFACE MOUNT,



3412 STANDARD MORTICE



3404 HERCULITE (FRAMELESS GLASS DOOR)

WIRE CONNECTIONS

The Bolt Position Sensor has both a normally closed and a normally open output.

Note: the normally open output is closed when the lock is engaged and the door is locked.

Typically only one set of contacts is used.

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

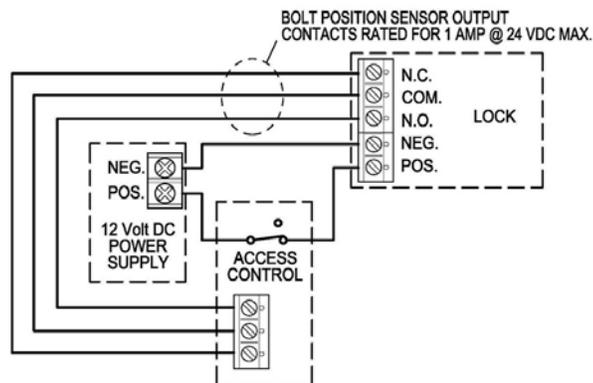


FIG. 4 WIRE CONNECTIONS

SETTING THE UNLOCK TIME



1 Second



3 Seconds



6 Seconds



9 Seconds

The unlock time delay is selectable by means of a pair of switches accessible at the side of the lock body.

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

DOOR AND FRAME PREPARATION

For inset flush mount locks, use the standard template enclosed with the lock to mark the door and jamb for drilling and cutting. The lock body, requires 1 -1/2" min. depth clearance and fits easily in most hollow metal door frames. Filled door frames must be drilled out to a minimum depth of 1- 1/2".

The Door Position Sensor magnet (Fig 1 -5) on the receiver plate requires a minimum clearance of 7/8".

For surface mount locks, use the template supplied with the surface mount 3402, to mark and drill mounting holes.

MOUNTING THE LOCK AND RECEIVER PLATE

Make the wire connections to the terminal block (Fig 4). Set the time delay desired (Fig 5).

3412 inset flush mount locks use the mounting tabs supplied. Install the mounting tabs first and then, using the hardware supplied, secure the lock and strike in place.

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 held 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 receiver plate 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.

ADJUSTING THE BALL CATCH

In order to maintain proper alignment between the lock and the strike when the door is closed and to prevent side loading the bolt due to air movement or out of plumb framing that could result in a sticking mechanism, a ball catch (Fig 1 -9) engages a slot in the receiver plate. The ball catch should be adjusted so that the door is properly aligned when closed, but operates easily with a minimum of noise.

To make the adjustment, loosen the locking nut, and rotate the ball catch body until the desired gap is achieved between the door and receiver plate while making sure that the ball catch does not interfere with the door.

Use the knurled adjusting knob (Fig 1 -10) to increase or decrease the spring pressure of the ball catch.

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
BOLT 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