Pulse Operated Security Bolt

Quick Installation Guide



Version 1.2 August 2001

COPYRIGHT

Copyright 2000 © Ringdale UK Ltd. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or any computer language, in any form or by any third party, without prior permission of Ringdale UK Limited.

DISCLAIMER

Ringdale UK Ltd. reserves the right to revise this publication and to make changes from time to time to the contents hereof without obligation to notify any person or organisation of such revision or changes. Ringdale UK Ltd. has endeavoured to ensure that the information in this publication is correct, but will not accept liability for any error or omission.

TRADEMARKS

All trademarks are hereby acknowledged.

Ringdale's Pulse Operated Security Bolt is the smallest device of its kind available. Its compact size allows fitting to the doorframe, an easier solution than door mountable bolts. Its solid, durable design ensures reliable, long lasting service, tested to withstand over 100,000 operations, the equivalent of a lifetime of use.

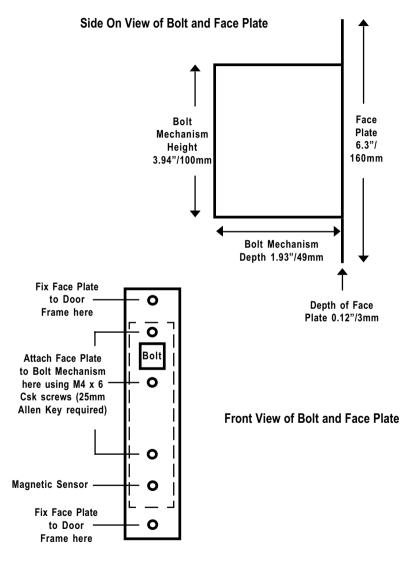
The bolt operates on a pulse and does not require permanent power to keep the door open or locked, thus providing a considerable cost saving over conventional electronic bolts and if connected to a battery backup provides longer operation in event of a power failure.

When locked, the bolt has a throw of 15mm deep, sufficient to prevent the most determined forced entry attempt. Sensors integrated into the bolt detect its position, making certain the door only locks when shut, ensuring it's closed securely and avoiding damage to the lock or doorframe.

The bolt is compatible with either Ringdale's Network Proximity Card Reader, which controls, monitors and logs room access using an ID card system, or Ringdale's stand alone access control system, suitable for non-networked or domestic security applications. Users simply wave an ID card (with a unique built in code) in front of the reader. The event is then logged and if the card is granted access, the door will be unlocked.

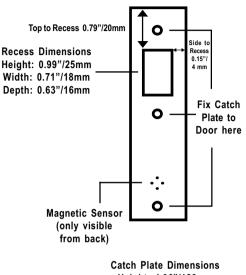
This Quick Installation Guide provides information on fitting the bolt and details on how to connect a card reader for full and reliable operation and should be used in association with the installation manual for the card reader.

Measurements for Security Bolt and Catch Plate



Bolt Mechanism Width: 0.83"/21mm Face Plate Width: 0.99"/25mm

Front View of Catch Plate



Height: 4.96"/126mm Width: 0.99"/25mm Depth: 0.12"/3mm

Magnetic sensor

Sensors in the bolt mechanism and catch plate (as shown on these pages) are used to tell the bolt when the door is closed and open. When fitting ensure that the sensors are as close together as possible.

Note: The sensor in the **Catch Plate** is set to low to ensure optimum performance from the bolt (so that the sensor only registers the bolt's sensor when the door is fully closed). In certain circumstances - for instance if there is a larger than normal gap between the sensors when the door is closed - it might be necessary to increase the power of the catch plate sensor. This can be done by peeling the label away on the back of the catch plate and turning the sensor around. Replace the label to hold the sensor in place. The sensor will now have a greater range.

Voltage Information

The mechanism will be clearly marked as to the voltage (normally 12V). Check that the power supply/controller that is to be used with the door strike can provide the voltage required. (12V has a tolerance of between 11 and 15 volts.)

Damage caused by connecting the bolt to an incorrect voltage is not covered by the warranty.

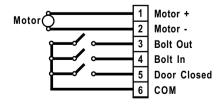
IDC Connector

The security bolt comes supplied with a 4 metre long cable which connects the bolt to the access controller box using an IDC connector at both ends (refer to the access controller manual for details of where to connect the cable to the controller).

In most situations the cable can be connected straight to the bolt itself using the IDC connector as supplied - see the following chapter *Installation Procedure* for details.

In certain circumstances (for instance if the cable needs to be cropped for some reason) it might be necessary to reconnect the IDC connectors to the cable. The rest of this chapter details the method for attaching the IDC connector to the cable.

The IDC connector has 6 slots which are clearly numbered. Connect wires to each numbered slot for each function as follows (**Note:** how many you use will be dependent on your system).



24 AWG (Cat 5) cable with 1:1 connection. The wires are colour coded for easy identification as follows:

Slot 1 to slot 1 - Brown Slot 2 to slot 2 - White and Brown Slot 3 to slot 3 - Green Slot 4 to slot 4 - White and Green Slot 5 to slot 5 - Orange Slot 6 to slot 6 - White and Orange

Fitting a Wire to the Connector

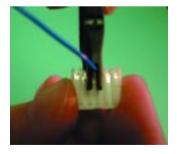
Use the following procedure to fit each wire to a slot (*Note:* an *IDC Connector Tool will be required for this operation*):



1) Place the wire into the required slot of the IDC connector

2) Use the IDC tool to fasten the wire firmly into the required slot of the IDC connector.

Repeat for as many slots as required.





 The cap clips over the top of the connector as shown with the dent in the top of the cap (use this to identify the top when fitting).

For details of fitting the IDC connector to the security bolt itself please see the *Installation Procedure* section that follows.

Important: damage can be caused to the card reader by placing the connector in the wrong way.

Installation Procedure

Use the following procedure for installation:

Note: this is a guide only - the Installation requirements will vary according to the design of the door frame to which the bolt is to be fitted.



 Using the measurements displayed at the start of this guide, mark and cut out the cavity for the Catch Plate in the door at the height required and fit into place using the supplied screws.

Note: when marking it is advised that the catch plate be centred across the width of the door.

2) Mark the position of the recess (that will accommodate the bolt when it is locked) on the door frame. Draw a horizontal line across the door frame at the centre point of the recess as a reference to where the bolt should be located.



Tip Location of the bolt across the width of the door frame will vary due to the design of each door frame. Measure the distance from the recess to the door edge that closes first, then add 1-2mm to ensure that the bolt will sit in the recess comfortably. Measure this distance from the door jamb in the frame and mark it to provide a guide as to where to locate the bolt.

3) Using the measurements displayed at the start of this guide, mark and cut out the cavity for the **Bolt Mechanism and Face Plate** in the door frame.



 Fit the IDC connector into the bolt mechanism (see the previous section for details on connecting wires to the IDC connector).

Important: Insert the connector as shown here with the long edge of the plastic cover facing the rear of the bolt.

Damage can be caused to the card reader by placing the connector in the wrong way.

5) Fit the bolt mechanism into place, ensuring that the wires are not crimped or under strain and that *the path of the wires is not in line with the screw holes*.





 Screw the face plate firmly into the door frame through the screw holes at the top and bottom of the plate.

The Pulse Operated Security Bolt installation is now complete.

Ringdale Ltd 56 Victoria Road Burgess Hill West Sussex RH159LR United Kingdom

Freephone: 0800 214503 Tel: +44 (0) 1444 871349 Fax: +44 (0) 1444 870228

Ringdale GmbH Cochemer Straße 12-14 D-68309 Mannheim Germany

Freephone: 0800 - 8251880 Tel: +49 (0) 621 7186-0 Fax: +49 (0) 621 7186-20

Ringdale Inc 101 Halmar Cove Georgetown, Texas 78628 USA

Freephone: 888 288 9080 Tel: +1 512 288 9080 Fax: +1 512 288 7210

Rikei Corporation 1-26-2, Nishi-Shinjuku, Shinjuku-ku Tokyo 163-05 Japan

Tel: +81-3-3345-2189 Fax: +81-3-3344-3949

Website: http://www.ringdale.com