Read all instructions before starting installation

1. Fitting and alignment
   The bolt can be fitted in a vertical or horizontal position, fitted into the frame or door leaf.
   Ensure that:
   - The top end of the strike plate must be aligned with the top of the lock so the bolt pin goes centrally into the hole in the strike plate.
   - The hole behind the strike plate is deep enough and clear of debris to take the full throw of the bolt.
   - The bolt does not rub or catch while in motion as it may not lock/unlock.
   DO NOT - fit bolt in floor fixing upwards.

2. Power Supply
   Ensure that:
   - 2 amp PSU is used per bolt.
   - Place the PSU as near as possible to the bolt.
   DO NOT - use AC transformer and rectifier due to power loss.

3. Cable
   Ensure that:
   - Connections are made with stranded alarm cable.
   - Allow extra cores to double/treble the cable should reduced voltage occur at bolt because of distance from bolt to PSU.
   DO NOT - use solid telephone cabling for connections.

4. Controlling the Bolt
   There is a preferred 3 wire full function, and a reduced 2 wire function. Features are opposite, full wiring details are overleaf.
   3 Wire Function requires permanent power to the bolt, and a positive pulse across the control terminal (2) to operate the bolt.
   2 Wire Function operates in a similar way to a normal electric locking device. Using 2 wire function loses the benefit of the built-in access control functions of 3 wire set-up.

5. Terminal Connections
   The DB25KO has a multiple voltage input from 12VDC -10% to 24VDC +15%.
   Built-in transient and reverse polarity protection
   1 + Positive Power Input
   2 C Control Wire (Do Not Confuse With Common)
   3 - Negative Power Input
   4 NO Door Position Switch - Normally Open
   5 C Door Position Switch - Common
   6 C Bolt Position Switch - Common
   7 NO Bolt Position Switch - Normally Open
   8 NC Bolt Position Switch - Normally Closed

In addition to running the necessary wires for the desired mode, positioning the three dip switches located on the lock printed circuit board determines the operation. These are accessed by removing the cover.

Switches S1 and S2 are used to set the timed re-lock. If an unlock signal is given to the lock but the door is not opened the DB25KO can automatically lock itself again after a selected time. This ensures that a door cannot be left unsecured if it has been unlocked but not opened. The timer is factory set to 9 seconds but 0, 3 and 6 second options are offered and selected by positioning the dip switches accordingly.

<table>
<thead>
<tr>
<th>TIMER</th>
<th>SWITCH POSITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 second</td>
<td>S1 ON and S2 ON</td>
</tr>
<tr>
<td>3 second</td>
<td>S1 OFF and S2 ON</td>
</tr>
<tr>
<td>6 second</td>
<td>S1 ON and S2 OFF</td>
</tr>
<tr>
<td>9 second</td>
<td>S1 OFF and S2 OFF</td>
</tr>
</tbody>
</table>

Switches M is used to select fail safe or fail secure mode. This is factory set as ordered and the only time it will need to be moved is when operating a fail safe lock in the two wire mode.

Markings S1, S2 and M are found on the printed circuit board.

Monitoring Connections
The DB25KO has dual monitoring as standard.
Door Position Switch (DPS) - Terminals 4 & 5 has a maximum rating of 100V AC/DC @ 300mA.
Bolt Position Switch (BPS) - Terminals 6, 7 & 8 has a maximum rating of 125V AC @ 3A, 30V DC @ 60mA.
DPS is triggered by the circular magnet on the strike plate lining up correctly with the “M” on the bolt faceplate.
NB - If you connect the fail open (FLO) bolt using the 2 wire method you lose the DPS as it has been used to control the bolt.
BPS is triggered by the bolt engaging fully in the locked or unlocked position.

Lubrication - This product is lubricated for life. Additional lubrication of any kind voids our warranty.
Deadlocking Bolt
DB25KO

Read all instructions before starting installation

3 Wire Function

Fail Open (PTL) or Fail Secure (PTO)
Connections
This method will require a permanent power feed across terminals 1 & 3.

Operation
After the initial 8 seconds when the bolt is first powered up, the bolt will lock (Fail Open - PTL) or stay locked (Fail Secure - PTO) as long as the door is closed with the strike plate correctly aligned.
A short pulse between terminals 1 & 2 will unlock the bolt. The bolt will lock as soon as the door is closed, if the door is not opened the bolt will relock after 8 seconds.
Apply a pulse between terminals 1 & 2 of longer than 8 seconds and the bolt will relock as soon as the pulse times out and the door is closed.

2 Wire Function

Fall Secure (PTO)
Connections
This method will require a switched on/off power feed across terminals 1 & 3.

Operation
This bolt will be locked without power applied and will unlock when the correct voltage is applied. When the power is removed the bolt will lock regardless of the door position, the application of this configuration should be used with caution.

2 Wire Function

Fall Open (PTL)
Connections
This method will require a switched on/off power feed across terminals 1 & 3.

Operation
This bolt will be unlocked without power applied and will lock when the correct voltage is applied as long as the door is closed with the strike plate correctly aligned.
Switch
Move the internal switch M to ON.

Key Override Instructions

Fall Locked Secure (PTO)
Key override is a mechanical operation with no additional wiring. This can be used in either the 2 or 3 wire modes.

Fall Unlocked Open (PTL)
Key override is an electrical operation using the additional wiring as shown opposite. This can only be achieved in the 3 wire mode.

1 - (+) Positive Power Input
2 - (C") Control Wire (Do not confuse with Common)
3 - (-) Negative Power Input
4 - (NO) Door Position Switch - Normally Open
5 - (C) Door Position Switch - Common
6 - (C) Ball Position Switch - Common
7 - (NO) Ball Position Switch - Normally Open
8 - (NC) Ball Position Switch - Normally Closed
9 - (C) Key Override Switch - Common
10 - (NO) Key Override Switch - Normally Open
11 - (NC) Key Override Switch - Normally Closed

WARNING!
Bolt will lock and unlock regardless of door position

Abrove lines are additional to connections shown earlier in the instructions. They are only required for Fail Open (PTL) bolts in 3 wire mode.