

## LOCKOUT MODULE FOR DC/PWM POWERED SWING OR BI-FOLDING DOORS

### 1 Introduction

The purpose of this quick setup guide is to emphasize some time saving tips to ensure a successful installation when installing or troubleshooting a parallax system using the LO LINX. This document is provided for experienced installers, service personnel & AAADM Certified Inspectors that are familiar with automatic doors. For those who are not completely familiar with the installation and setup of the LO LINX, BEA recommends following the detailed installation and setup instructions found in the LO LINX User's Guide (75.5151).



Unless you are a seasoned veteran of LO LINX installations we recommend breaking down the installation into a few steps to simplify ease of installation and to avoid unnecessary delays. We make the following generalized recommendations to break down the installation into the following steps:

- Step 1 - Install all sensors and route all wiring inside automatic door header.
- Steps 2 thru 6 - **NOTE:** DO NOT proceed further until you are sure these steps are complete.
- Step 7
- Step 8
- Step 9 (if Knowing Act)

### 2 Installation Steps

- 1** Ensure at a minimum the following harnesses are connected:
- (a) Motor plug harness (20.5095). **NOTE:** No respect to motor polarity is required for the motor lead connection, but it must be a DC motor.
  - (b) Bodyguard cable harness (20.5082).
  - (c) ON/OFF/HO switch wiring harness (20.5078).
  - (d) Control five wire harness (20.5097) and wired correctly to automatic door operator control.

- 2** Next ensure the door(s) are closed and connect the power plug harness (20.5095). Approx. 10-15 seconds for the Bodyguard to learn the door closed area. When the Bodyguard stops flashing green proceed with the initial Bodyguard configuration. Ensure that the Bodyguard F1 setting is set to 2. Ensure that the Bodyguard relay is set to 2. Using the remote control press Unlock - F1 - 2 - Relay - 2 - Lock - Lock. Use the inquiry key to ask the Bodyguard a question if you are not certain.



- NOTE:** Use the supplied 24VAC transformer. DO NOT Use the door control power supply. Use the supplied toggle switch. If you don't connect it the door won't move. Consult BEA technical support for other toggle switch wiring options.
- NOTE:** If using the Bodyguard 'Y' harnesses (20.5083) for anything other than Double Egress applications ensure the unused 10 pin connector plug is shorted at the Green & White wires. Caution as there is voltage on the Red, Black, Brown and Blue wires. If on this unused portion of the 'Y' cable the Green & White are not shorted the LO LINX will display a Sb on the DS of its display. Meaning Safety Bodyguard and the door will not move until this is rectified. We've had several calls where installers are using the Bodyguard 'Y' harness when only using one Bodyguard on a single or pair of doors. By knowing this will save you valuable time lost on the jobsite.

- 3** After you are certain the Bodyguard F1=2 & Relay=2, unplug the 2 pin power connector at the LO LINX. Make sure the door is closed and the Bodyguard detection area is clear of objects and then re-apply power to the LO LINX. Allow the Bodyguard and LO LINX to set up in the door closed position 1st (10-15 seconds). Next proceed to short the AUX terminal NO & COM. With a dry contact only. The door should open and the Bodyguard will once again flash green to learn the door open position. In the event the door doesn't open, review the Troubleshooting Section of the LO LINX User Guide (75.5151). Also be certain the motor lead connection from the LO LINX Motor harness is secured to the motor leads.

- 4** After the door opens and the Bodyguard learns the door open position the door will begin to close. After the door closes, go to the LO LINX digital display and press the Function Button until dP is displayed. It should read Gd (Good); if you see an Er (Error), review the Troubleshooting Section of the LO LINX User Guide (75.5151).

- 5** The LO LINX will automatically configure the correct Bodyguard inhibit time (lockout time). No need to adjust with dip switches. In the unlikely event you would require additional Bodyguard inhibit time go to the LO LINX parameter function 'FD' and adjust the 'incr' between 0-10 seconds of additional inhibit time. Or in the event you want to disable the Bodyguard inhibit time prior to the door closing such as on a surface applied operator on the swing side of the door you may want less Bodyguard inhibit time in the last 10" or so. Simply toggle the LO LINX display function to the 'Fc' parameter. By default it is set to 00. You can adjust this from 00-30 via pressing 'incr'. The higher the number the sooner the inhibit time will expire.

- 6** It's absolutely mandatory that all activation is routed through the LO LINX. If you activate the door by shorting act. & com. at the door control then this in itself will cause the LO LINX to display function Dp as an Er. If this is the case, power cycle the LO LINX then initiate the door activation by shorting the AUX terminal NO & COM. Again review the LO LINX function Dp to ensure that it displays Gd.

- 7** Once the LO LINX function Dp displays Gd then proceed to connecting the Eagle at the LO LINX.  
**NOTE:** It's important to connect the Eagle after you are certain the Dp = Gd and the Bodyguard has learned the door closed & open patterns. This avoids unwanted activation via the Eagle as we have noticed on several installations when the installer programs the Bodyguard relay to value 2 they will inadvertently program the Eagle relay to value 2 thus changing the Eagle output from NO to NC. This causes the door to go to open when the Eagle is at rest and close when a person approaches the door.

- 8** After successful Eagle configuration, ensure the correct labeled cable is routed to the respective Superscan. Ensure that all wiring at each Superscan terminates on 8, 7, 6, 5 or Red, Black, White, Green in that order. Insert Superscan 1 Cable into the Door MTD Sensor 1 at the LO LINX. Ensure the approach Superscan re-activates a closing door. Adjust range & position as needed. Test the swing side Superscan to ensure it stalls the door in the open cycle. Adjust range & position if needed. If no stall check to ensure the LO LINX stall 1 and/or stall 2 jumpers are in place as those inputs are NC. When stall 1 or 2 inputs are open that respective swing side Superscan is inhibited. If you are using an external dry contact inhibit switch ensure its signal is NC when the door is closed and doesn't open until the door is approx. 75° open.  
**NOTE:** If your stall circuit at the door control is NC you must change at the LO LINX the function 'FS'= 01)

- 9** If using the LO LINX for Knowing Act or Push plate activation such as in hospitals, pharmaceutical, medical facilities and universities. One must toggle the 'FA' function Knowing Act from 00 to 01 to toggle this feature on. By enabling the FA feature will disable the Eagle and Superscan inputs when the door is closed. Thus allowing correct function for Knowing Act and secondary re-activation.  
**NOTE:** Ensure Knowing Act devices are dry contact, i.e. push plate, card reader, touchless switch; NO & COM. Conductors terminate at the LO LINX AUX input at the respective NO & COM terminals.

- NOTE:** If using beams in lieu of the parallax system perform the following steps: (SBK-30 beams only, 75.5179)
- Complete Steps 1 thru 9 above. (Review Step 18 & 19 of the LO LINX User Guide 75.5151 regarding beams)
  - Route Beam TX & RX cable to LO LINX.
  - Plug Beam TX cable into LO LINX labeled BEAM TX.
  - Plug Beam RX cable into LO LINX labeled BEAM RX.
  - Set the LO LINX function 'FP' to '01'.

### 3 Precautions



**CAUTION**

- ❑ Shut off all power before attempting any wiring procedures.
- ❑ Maintain a clean & safe environment when working in public areas.
- ❑ Constantly be aware of pedestrian traffic around the door area.
- ❑ Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- ❑ ESD: Circuit boards are vulnerable to damage by electrostatic discharge. Before handling ensure you dissipate your body's charge.
- ❑ Always check placement of components before powering up so that moving parts will not catch any wires or cause damage to equipment.
- ❑ Ensure compliance with all applicable safety standards (i.e. ANSI A156.10 / .19) upon completion of installation.
- ❑ When preparing to wire multiple devices together for a 'system' configuration, it is best to ensure the correct operation of each device independently before starting to help reduce troubleshooting time later, in the event of a discrepancy.
- ❑ When applying equipment on a new installation, utilizing new electrical supply circuits, always ensure that correct line voltage exists and is stable. Remember to shut the power back off once this is checked, before performing any wiring to the system.
- ❑ DO NOT attempt any internal repair of the sensor. All repairs and/or component replacements must be performed by BEA, Inc.
  - 1. May jeopardize personal safety and may expose one to the risk of electrical shock.
  - 2. May adversely affect the safe and reliable performance of the product resulting in a voided warranty.

### 4 Door Control Connections

SWING	ACT	COM	SAF	STALL	STALL COM	SWING	ACT	COM	SAF	STALL	STALL COM
Besam 300	13	12	11	15, 17	16, 18	HUNTER	ACT	RTN	SAF 1	SAF 2	RTN
Besam M/P	3	4	9	5	13	KM K	Green	White	Red	Yellow	White
DOM	Yellow	Grey	Blue	Purple	Grey	STANLEY L	Orange	Yellow	Red	Blue	Yellow
GT 300/400	Black	Red	White	White	Red	STANLEY M/P	2	1, 8	7	7	1, 8
GT MAG	6 Black	5 Red	4 White	3 Violet	5 Red	STANLEY 521	TB4-4	TB4-3	TB4-8	TB3-4	TB3-3
HORTON 4190	2	3, 6, 8	4	10	3, 6, 8	TORMAX TDA	2	1, 3, 6, 8	8 & 9	7	1, 3, 6, 8

### 5 Company Contact



**CAUTION**

Do not leave problems unresolved. If a satisfactory solution cannot be achieved after troubleshooting a problem, please call BEA, Inc. If you must wait for the following workday to call BEA., leave the door inoperable until satisfactory repairs can be made. Never sacrifice the safe operation of the automatic door or gate for an incomplete solution. The following numbers can be called 24 hours a day, 7 days a week. For more information, visit [www.beasensors.com](http://www.beasensors.com).

**US and Canada: 1-866-249-7937**  
**Canada: 1-866-836-1863**  
**Northeast: 1-866-836-1863**

**Southeast: 1-800-407-4545**  
**Midwest: 1-888-308-8843**  
**West: 1-888-419-2564**