



# Technical Bulletin #25

Please Pass On To Your Technicians

## DESCRIPTION

**DATE: 06 JAN 2004**  
**SUBJECT: LO21 APPLICATIONS**



## EXPLANATION OF BULLETIN

- ❑ Over recent months, BEA, Inc. has received many questions about the applicability of our LO21 product line. How does one select the correct lockout for a given application? In response to the numerous questions, we have developed an application grid for your ease of selection. Page 2 of this document shows an application grid for most brands / models of automatic pedestrian door operators. Additional to this grid, please observe the following information:
  1. The LO21P is BEA's newest addition to the LO21 product line. The P version is intended for use on the BEA Parallax System. Additionally, the input to the LO21P from the Bodyguard, now requires an open circuit upon detection. In doing this, BEA has managed to provide an extremely fail-safe module due to the facts:
    - ✓ If Bodyguard is unplugged, the module will not accept an activation signal.
    - ✓ If Bodyguard or Module loses power, module will not accept activation signal.
    - ✓ If an output wire is disconnected from the Bodyguard, the module will not accept activation signal.
  2. Remember, when using other than a Parallax System, BEA, Inc. encourages the use of lockout safety beams when using an overhead presence sensor such as our Bodyguard or DK-12 presence sensor. Microcell safety beam kits can be used with all lockouts that allow beam input. The SBK-111 can be used with the LO21 only.
- ❑ As always, be sure to give our Technical Support Department a call if you have any questions about your application. We offer 24/7 support – if you call your regional Technician, and they are unavailable due to being on another call, simply call the next region. All of our Technicians are eager to assist you.
- ❑ We wish all of you a very happy and prosperous New Year.

## COMPANY CONTACT

If after troubleshooting a problem, a satisfactory solution cannot be achieved, please call B.E.A., Inc. for further assistance during Eastern Standard Time at **1-800-523-2462 from 7am - 5pm.** For after-hours, call East Coast: **1-866-836-1683** or **1-800-407-4545** / Mid-West: **1-888-308-8843** / West Coast: **1-909-596-3011.** **DO NOT** leave any problem unresolved. If you must wait for the following workday to call B.E.A., 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.

Brand	Model	Bodyguard Only	Bodyguard & Beams	Parallax System	Control Is Stall Capable	Remarks
<b>BESAM</b>	Swingmaster/Ready -Fold CUP/MP/300/400	P/U/B	U/B	P/U/B	Yes	LO21 can be used on ETIK, not CUP/MP
	Electra 150	P/U/B/LO21/MC15	U/B		No	
	Powerswing (Low Energy)	P/U/B/LO21/MC15	U/B		No	
	Navigator (Low Energy)	P/U/B/LO21/MC15	U/B	P/U/B	Yes*	* CUP Control is stall capable
<b>DORMA</b>	ED A & ED 800 (Low Energy)	P/U/B/S/MC15	U/B	P/U/B	Yes	Also has built in lockout at control
<b>DOROMATIC</b>	Astro/Mid/Sr-Swing or Astro-Fold	P/U/B/S/LO21/MC15	U/B/LO21	P/U/B/S/LO21	Yes	
	Jr Swing / Bench Mark (Low Energy)	P/MC15			No	
<b>GT/NABCO</b>	NABCO U-11 thru U-16 Control	P/U/B/S/LO21/MC15	U/B/LO21	P/MC15	Yes	Also has built in lockout at control
	GT 300 / 400 / 500 (500 Low Energy)	P/U/B/S/LO21/MC15	U/B	P/U/B/S	Note 1	
	GT - 710 (Low Energy)	P/MC15			Note 2	
<b>HORTON</b>	4160, -1, -2	P/U/B/S/LO21/MC15	U/B/LO21	P/U/B/S/LO21	Yes*	* 4160-2 is stall capable
	4190	P/U/B/S/LO21/MC15	U/B/LO21	P/U/B/S	Yes	Also has built in lockout at control
	7160 Control (Low Energy)	P/MC15			No	
<b>KM SYSTEMS</b>	2000 Series Hydraulic, W/ B Control	P	LO21	P	Note 1	
	Mat Control, Mercury relay	P	LO21	P	Note 1	
	3000 Series W/ K Control	K	K	K	Yes	Motor voltage is too low for other lockouts
	3000 Series W/O K Control	P/U/B/S/LO21/MC15	U/B/LO21	P/U/B/S/LO21	No	
	3800 (Low Energy)	P/MC15			No	
<b>LCN</b>	ES7982 Control (Low Energy)	P/MC15			No	
	4630 / 4640 (Low Energy)	P/MC15			No	Also has built in lockout at control
<b>STANLEY</b>	Magic Swing / Magic Force, Any Control	P	U/B	P	Yes	See Notes 3 and 5 Also
	Magic Access (Low Energy)	P	U/B/LO21		No	See Note 4 Also
<b>TORMAX</b>	TDA	P/U/B/LO21/MC15	U/B/LO21	P/U/B/S	Yes	
	TTX (Low Energy)	P/MC15			No	

**Lockout preference is listed in order starting with most recommended**

**Other Notes:**

1. Can install parallax using optional DPDT Isolation relays. See wiring diagram for details.
2. 710 Control has lockout function, but no data.
3. Stanley requires their branches/distributors to use LO-21P w/Parallax. Bodyguard/DK-12 w/safety beam requires U, B or LO21
4. Some Magic Access controls may not have safety circuit - be sure it does if applying LO21, U, B
5. Magic Swing may require DPS for swing side superscan inhibit. On Magic Force use auxiliary cam switch.
6. LO-21S,P, and MC-15 do not have safety beam inputs. On LO-21U and B, safety beam input is dry contact only (Microcell).
7. LO-21 can use SBK-111 or Microcell safety beams.
8. Double egress requires one lockout and two Bodyguards/DK-12.
9. BEA Module SS21G may be used on door controls which do not have a stall input. The SS21G will only work with DC motors (non- PWM).
10. For Door Controls without Safety circuits, use MC-15.