



# BEA LZR-FLATSCAN 3D SW Door Control Wiring Matrix Owner's Manual

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**BEA LZR-FLATSCAN 3D SW Door Control Wiring Matrix**



## Specifications

- Model: LZR-FLATSCAN SW / LZR-FLATSCAN 3D SW
- Manufacturer: BEA, Inc.
- Control Harness: 20.5433
- Power Input: 24V DC

## Product Usage Instructions

### Installation Requirements

**Before starting the installation process, ensure that:**

- Installation and service technicians are certified appropriately.
- Risk assessments are conducted after each installation.
- Compliance with local, national, and international regulations is verified.
- All necessary signage and warning labels are in place.

### Wiring Instructions

Refer to the provided wiring matrix for connecting the control harness to compatible door/gate systems.

### Power Connection

Connect the power input to a 24V DC power source following the specified wiring connections.

### Additional Information

For detailed instructions on specific door/gate systems, refer to the BEA product User's Guide and OEM manual.

## FAQ

### 1. **Q: What certifications are recommended for installation technicians?**

A: BEA, Inc. recommends AAADM certification for pedestrian doors, IDA certification for doors/gates, and

factory training for the specific door/gate system.

## 2. Q: What should be verified before starting the installation process?

A: Verify that all appropriate industry signage, warning labels, and placards are in place, and that technicians are certified and compliant with regulations.

### BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose. BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system. Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/device system performance is compliant with local, national, and international regulations, codes, and standards.

Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code). Verify that all appropriate industry signage, warning labels, and placards are in place.

### Control Harness: 20.5433

	R	BH	BI	Br	G	W	Gy	Gy	P	P
<b>Control Harness: 20.5433</b>	POWER 1	O1: N. O.	O1: N. C.	O1: COM	O2: REACTIVATION 2	O2: ACT (COM)	O3: VPB 3	MONITORING 4		
<b>Besam ETIK 5</b>	30.5558		15/17	16/18	Logic Module	12	13	<i>Not supported.</i>		
<b>Besam MP/CUP</b>	30.5558	5		4	Logic Module	4	3	<i>Not supported.</i>		
<b>Besam PowerSwing/EXB</b>	30.5558		TB4-29	TB4-26	Logic Module	TB3-20	TB3-21	<i>Not supported.</i>		
<b>Besam SM</b>	30.5558	TB1-7		3	Logic Module	3	1	<i>Not supported.</i>		
<b>Assa Abloy SW 100/200, DITEC HA9 6</b>	24 V+	GND		EXU-SA 3	EXU-SA 1	EXU-SA 1 and 2 (N.C.)	CU-ESD 1	CU-ESD 2	<i>Refer to BEA product User's Guide and OEM manual.</i>	
<b>CONDOR</b>	30.5558	DMS O		COMMON	V and W	COM 16	ACTIVATE 17	<i>Not supported.</i>		
<b>DCU DC700 Access Auto . ES500 Quad Systems ES500</b>	30.5558	CN6 GREEN		CN6 BLACK	AUX CN7 (AF = 2)	CN2 #3	CN2 #2	<i>Not supported.</i>		

<b>Detex BS100 0S/UDC100</b>	30.5558	5		1	J2-3 and 1	1	2	<i>Not supported.</i>
<b>Dor-O-Matic</b>	30.5558	PURPLE		GRAY	Logic Module	GRAY	YELLOW	<i>Not supported.</i>
<b>Dorma 400/700</b>	30.5558	SWING		GND	APPR and GND	GND	TRIGGER	<i>Not supported.</i>
<b>Dorma ED 100/250 7</b>	1	3	15	3	11 (N.C.)	3	42	<i>Refer to BEA product User's Guide and OEM manual.</i>
<b>Gyrotech/Nabc Magnum</b>	30.5558	3 VIOLET		5 RED	Logic Module	5 RED	6 BLACK	<i>Not supported.</i>
<b>Gyrotech/Nabc Opus</b>	30.5558	5		2	2 and 4	2	3	<i>1 and 7</i>
<b>Gyrotech/Nabc U19</b>	30.5558	WHITE 6B		RED 7	Logic Module	RED 7	61/62	<i>Not supported.</i>
<b>Gyrotech 300/400 8</b>	30.5558	WHITE		RED	Logic Module	RED	BLACK	<i>Not supported.</i>
<b>Horton 4160-3 9</b>	30.5558	DAUGHTER BOARD		DAUGHTER BOARD	Logic Module	WHITE	BLACK	<i>Not supported.</i>
<b>Horton 4190 10</b>	30.5558	10		3	11 and 2	3	2	<i>Not supported.</i>
<b>Horton 5190</b>	+24 V DC	0 V	CN16 ORANGE (10)	CN16 YELLOW (9)	CN16 GREEN (8)	CN16 BROWN (7)	CN20: 2 = interior, 3 = exterior CN7 COM	CN16 PURPLE (13), BLUE (14)
<b>Hunter HA, DITEC HA8</b>	30.5558	SAFE 2		RTN	ACT 2 and return	RTN	ACT	<i>Not supported.</i>
<b>Keane-Monroe K</b>	30.5558	YELLOW		WHITE	Logic Module	WHITE	GREEN	<i>Not supported.</i>
<b>LCN Digital / Senior Swing</b>	30.5558	P2 GREEN		P2 WHITE	P3 white and green	P6 GRAY	P6 YELLOW	<i>Not supported.</i>
<b>Record 6000 /8000 11</b>	4	6	10	11	11 and 12 (N.C.)	1	2	<i>Refer to BEA product User's Guide and OEM manual.</i>
<b>Stanley "L" 12</b>	30.5558	BLUE		YELLOW	Logic Module	YELLOW	ORANGE	<i>Not supported.</i>
<b>Stanley MP</b>	30.5558	7		8	Logic Module	8	2	<i>Not supported.</i>

<b>Stanley MC 521 13</b>	30.5558		TB3-4		TB3-3	TB5 3 and 4	TB4-3	TB4-4	<i>Refer to BEA product User's Guide and OEM manual.</i>
<b>Stanley MC 521 Pro and IQ 13</b>	TB 4-5	TB 4-6	TB3-4		TB3-3	TB5 3 and 4	TB4-3	TB4-4	<i>Refer to BEA product User's Guide and OEM manual.</i>
<b>Tucker</b>	30.5558			J4-14	J4-8 jumped to 12 & 13	N.C. contact between J 4 13 and COM	J4-8 jumped to 12 & 13	J4-10	<i>Not supported.</i>
<b>Tormax 1301 Motion</b>	30.5558		SAFETY A #2		SAFETY A #1	A6	A5	INPUT C #2	<i>Refer to BEA product User's Guide and OEM manual.</i>
<b>Tormax TDA</b>	30.5558		7		8	C4 and C8	8	2	<i>Not supported.</i>
<b>Tormax TTX II</b>	30.5558				14	17 and 18	4	5	<i>Not supported.</i>


Note 1	If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.		
Note 2	LE21 function or BR3-X programmed to function 22		
Note 3	FS3D only.		
Note 4	Monitoring consists of two purple and two blue wires. If monitoring is not used, cap off unused purple and blue wires. Wire as follows:		
	Door Type	System Harness	Control Monitoring
	Single	1 blue + 1 purple	1st leg
		1 blue + 1 purple	2nd leg
	Pair / Dual Egress	1 blue + 1 purple	1st leg
		1 blue + 1 purple	2nd leg
	Pair / Dual Egress (independent controls)	2 blues	1st control
		2 purples	2nd control
Effective November 11, 2017: Monitoring is required for ANSI 156.10 compliance.			
Note 5 (BESAM ETIK)	Jump 17+18, if not used.		
Note 6 (BESAM SW 100/200)	Set EXU-SA jumper to "Door open/closed" indication. Jump 1+2 on EXU-SA board. Blanking Potentiometer must be set fully counterclockwise. Auxiliary switch may be used for home switch.		
Note 7 (DORMA ED 100/250)	Jump 11+3 on control. Use ON/OFF/H.O. jumper. Control switches must be used. Make certain Home Switch Control Function "Sr" is set to 1.		
Note 8 (GYROTECH 300/400)	Set control to "swing-safe."		
Note 9 (HORTON 4160-3)	Must have daughter board.		
Note 10 (HORTON 4190)	PNP harness p/n: 20.5322		
Note 11 (RECORD 6000/8000)	Jump 11+12 and 14+15.		
Note 12 (STANLEY "L")	The older Stanley, all metal (silver), "L" shape control does not have stall. A control with stall must be used.		
Note 13 (STANLEY MC521 / MC521 PRO)	Jump TB2 2+3 (if not using factory On/Off/Hold Switch).		

**Tech Support:** 1-[800-407-4545](tel:800-407-4545)

**Customer Service:** 1-[800-523-2462](tel:800-523-2462)

**General Tech Questions:** [techservices-us@BEAsensors.com](mailto:techservices-us@BEAsensors.com)

Documents / Resources

	<p><a href="#">BEA LZR-FLATSCAN 3D SW Door Control Wiring Matrix</a> [pdf] Owner's Manual LZR-FLATSCAN 3D SW Door Control Wiring Matrix, LZR-FLATSCAN 3D SW, Door Control Wiring Matrix, Control Wiring Matrix, Wiring Matrix, Matrix</p>
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References

- [User Manual](#)

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