



DOOR CONTROL WIRING MATRIX

LZR-FLATSCAN SW

LZR-FLATSCAN 3D SW



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.



| | R | Bk | Bl | Br | G | W | Gy | Gy | P | P |
|---|--------------------|-------|------------------|----------|------------------------|---------------------------------------|------------------------|---|---|---|
| | POWER ¹ | | O1: N.O. | O1: N.C. | O1: COM | O2: REACTIVATION ² | O2: ACT (COM) | O3: VPB ³ | MONITORING ⁴ | |
| Besam ETIK ⁵ | 30.5558 | | | 15/17 | 16/18 | Logic Module | 12 | 13 | Not supported. | |
| Besam MP/CUP | 30.5558 | | 5 | | 4 | Logic Module | 4 | 3 | Not supported. | |
| Besam PowerSwing/EXB | 30.5558 | | | TB4-29 | TB4-26 | Logic Module | TB3-20 | TB3-21 | Not supported. | |
| Besam SM | 30.5558 | | TB1-7 | | 3 | Logic Module | 3 | 1 | Not supported. | |
| Assa Abloy SW 100/200, DITEC HA9 ⁶ | 24V+ | GND | | EXU-SA 3 | EXU-SA1 | EXU-SA 1 and 2 (N.C.) | CU-ESD 1 | CU-ESD 2 | Refer to BEA product User's Guide and OEM manual. | |
| CONDOR | 30.5558 | | DMS O | | COMMON N | V and W | COM 16 | ACTIVATE 17 | Not supported. | |
| DCU DC700 Access Auto. ES500 Quad Systems ES500 | 30.5558 | | CN6 GREEN | | CN6 BLACK | AUX CN7 (AF = 2) | CN2 #3 | CN2 #2 | Not supported. | |
| Detex BS1000S/UDC100 | 30.5558 | | 5 | | 1 | J2-3 and 1 | 1 | 2 | Not supported. | |
| Dor-O-Matic | 30.5558 | | PURPLE | | GRAY | Logic Module | GRAY | YELLOW | Not supported. | |
| Dorma 400/700 | 30.5558 | | SWING | | GND | APPR and GND | GND | TRIGGER | Not supported. | |
| Dorma ED 100/250 ⁷ | 1 | 3 | | 15 | 3 | 11 (N.C.) | 3 | 42 | Refer to BEA product User's Guide and OEM manual. | |
| Gyrotech/Nabco Magnum | 30.5558 | | 3 VIOLET | | 5 RED | Logic Module | 5 RED | 6 BLACK | Not supported. | |
| Gyrotech/Nabco Opus | 30.5558 | | 5 | | 2 | 2 and 4 | 2 | 3 | 1 and 7 | |
| Gyrotech/Nabco U19 | 30.5558 | | WHITE 6B | | RED 7 | Logic Module | RED 7 | 61/62 | Not supported. | |
| Gyrotech 300/400 ⁸ | 30.5558 | | WHITE | | RED | Logic Module | RED | BLACK | Not supported. | |
| Horton 4160-3 ⁹ | 30.5558 | | DAUGHTER BOARD | | DAUGHTER BOARD | Logic Module | WHITE | BLACK | Not supported. | |
| Horton 4190 ¹⁰ | 30.5558 | | 10 | | 3 | 11 and 8 | 3 | 2 | Not supported. | |
| Horton 5190 | +24 VDC | 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) | |
| Hunter HA, DITEC HA8 | 30.5558 | | SAFE 2 | | RTN | ACT 2 and return | RTN | ACT | Not supported. | |
| Keane-Monroe K | 30.5558 | | YELLOW | | WHITE | Logic Module | WHITE | GREEN | Not supported. | |
| LCN Digital / Senior Swing | 30.5558 | | P2 GREEN | | P2 WHITE | P3 white and green | P6 GRAY | P6 YELLOW | Not supported. | |
| Record 6000/8000 ¹¹ | 4 | 6 | | 10 | 11 | 11 and 12 (N.C.) | 1 | 2 | Refer to BEA product User's Guide and OEM manual. | |
| Stanley "L" ¹² | 30.5558 | | BLUE | | YELLOW | Logic Module | YELLOW | ORANGE | Not supported. | |
| Stanley MP | 30.5558 | | 7 | | 8 | Logic Module | 8 | 2 | Not supported. | |
| Stanley MC 521 ¹³ | 30.5558 | | TB3-4 | | TB3-3 | TB5 3 and 4 | TB4-3 | TB4-4 | Refer to BEA product User's Guide and OEM manual. | |
| Stanley MC 521 Pro and IQ ¹³ | TB4-5 | TB4-6 | TB3-4 | | TB3-3 | TB5 3 and 4 | TB4-3 | TB4-4 | Refer to BEA product User's Guide and OEM manual. | |
| Tucker | 30.5558 | | | J4-14 | J4-8 jumped to 12 & 13 | N.C. contact between J4 13 and COM | J4-8 jumped to 12 & 13 | J4-10 | Not supported. | |
| Tormax 1301Motion | 30.5558 | | SAFETY A #2 | | SAFETY A #1 | A6 | A5 | INPUT C #2 | Refer to BEA product User's Guide and OEM manual. | |
| Tormax TDA | 30.5558 | | 7 | | 8 | C4 and C8 | 8 | 2 | Not supported. | |
| Tormax TTX II | 30.5558 | | | | 14 | 17 and 18 | 4 | 5 | Not supported. | |

| 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 | <p>Monitoring consists of two purple and two blue wires. If monitoring is not used, cap off unused purple and blue wires. Wire as follows:</p> <table border="1" data-bbox="285 298 963 544"> <thead> <tr> <th>Door Type</th> <th>System Harness</th> <th>Control Monitoring</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Single</td> <td>1 blue + 1 purple</td> <td>1st leg</td> </tr> <tr> <td>1 blue + 1 purple</td> <td>2nd leg</td> </tr> <tr> <td rowspan="2">Pair / Dual Egress</td> <td>1 blue + 1 purple</td> <td>1st leg</td> </tr> <tr> <td>1 blue + 1 purple</td> <td>2nd leg</td> </tr> <tr> <td rowspan="2">Pair / Dual Egress (independent controls)</td> <td>2 blues</td> <td>1st control</td> </tr> <tr> <td>2 purples</td> <td>2nd control</td> </tr> </tbody> </table> <p>Effective November 11, 2017: Monitoring is required for ANSI 156.10 compliance.</p> | Door Type | System Harness | Control Monitoring | Single | 1 blue + 1 purple | 1 st leg | 1 blue + 1 purple | 2 nd leg | Pair / Dual Egress | 1 blue + 1 purple | 1 st leg | 1 blue + 1 purple | 2 nd leg | Pair / Dual Egress (independent controls) | 2 blues | 1 st control | 2 purples | 2 nd control |
| Door Type | System Harness | Control Monitoring | | | | | | | | | | | | | | | | | |
| Single | 1 blue + 1 purple | 1 st leg | | | | | | | | | | | | | | | | | |
| | 1 blue + 1 purple | 2 nd leg | | | | | | | | | | | | | | | | | |
| Pair / Dual Egress | 1 blue + 1 purple | 1 st leg | | | | | | | | | | | | | | | | | |
| | 1 blue + 1 purple | 2 nd leg | | | | | | | | | | | | | | | | | |
| Pair / Dual Egress (independent controls) | 2 blues | 1 st control | | | | | | | | | | | | | | | | | |
| | 2 purples | 2 nd control | | | | | | | | | | | | | | | | | |
| Note 5 (BESAM ETIK) | Jump 17+18, if not used. | | | | | | | | | | | | | | | | | | |
| Note 6 (BESAM SW 100/200) | <p>Set EXU-SA jumper to "Door open/closed" indication.</p> <p>Jump 1+2 on EXU-SA board.</p> <p>Blanking Potentiometer must be set fully counterclockwise.</p> <p>Auxiliary switch may be used for home switch.</p> | | | | | | | | | | | | | | | | | | |
| Note 7 (DORMA ED 100/250) | <p>Jump 11+3 on ontrol.</p> <p>Use ON/OFF/H.O. jumper. Control switches must be used.</p> <p>Make certain Home Switch Control Function "Sr" is set to 1.</p> | | | | | | | | | | | | | | | | | | |
| 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). | | | | | | | | | | | | | | | | | | |