

APPLICATION NOTE

DOOR CONTROL WIRING MATRIX

LZR-MICROSCAN T



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 quarantee 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.









	Pwr Harnes	ss (20.5095)	Door Control Harness (20.5222)					System Harness (20.5304)				
	R	Bk	G	Υ	w	G	Υ	W	0	0	Gy	P
		-::		•		R	R	R			Gy	BI
	POWER ¹		ACT (N.O.)	ACT (N.C.)	ACT (COM)	STALL (N.O.)	STALL (N.C.)	STALL (COM)	HOME see note 2	HOME see note 2	PUSH PLATE	MONITORING ³
Besam ETIK ⁴	30.5558		13		12		15/17	16/18	DPS			Not supported.
Besam MP/CUP	30.5558		3		4	5		4	DPS			Not supported.
Besam PowerSwing/EXB	30.5558		TB3-21		TB3-20		TB4-29	TB4-26	DPS			Not supported.
Besam SM 900/CU2	30.5558		1		3	TB1-7		3	DPS			Not supported.
Assa Abloy SW 100/200, Ditec HA9 ⁵	24V+	GND	CU-ESD 2		CU-ESD 1		EXU-SA 3	EXU-SA1	EXU-SA 7	EXU-SA 8		Refer to BEA product User's Guide and OEM manual.
CONDOR	30.5558		ACTIVATE 17		COM 16	DMS O		COMMON N	DPS			Not supported.
DCU DC700 Access Auto. ES500 Quad Systems ES500	30.5558		CN2 #2		CN2 #3	CN6 GREEN		CN6 BLACK	DPS			Not supported.
Detex BS1000S/UDC100	30.5558		2		1	5		1	DPS			Not supported.
Dor-O-Matic	30.5558		YELLOW		GRAY	PURPLE		GRAY	DPS			Not supported.
Dorma 400/700	30.5	30.5558			GND	SWING		GND	DPS		xi	Not supported.
Dorma ED 100/250 ⁶	1	3	42		3		15	3	97	98	ay wire	Refer to BEA product User's Guide and OEM manual.
Gyrotech/Nabco Magnum	30.5	558	6 BLACK		5 RED	3 VIOLET		5 RED	D	PS	e 2 gr. hub.	Not supported.
Gyrotech/Nabco Opus	30.5	558	3		2	5		2	DPS		e to th	Refer to BEA product User's Guide and OEM manual.
Gyrotech/Nabco U19	30.5	558	61/62		RED 7	WHITE 6B		RED 7	DPS		deevic ig Act	Not supported.
Gyrotech 300/400 ⁷	30.5	558	BLACK		RED	WHITE		RED	SdD SdD		Not supported.	
Horton 4160-3 ⁸	30.5	30.5558			WHITE	DAUGHTER BOARD		DAUGHTER BOARD	DPS		dry-contact, knowing act deevice to the 2 gray wires. certain to turn on Knowing Act at the hub.	Not supported.
Horton 4190	30.5558		2		3	10		3	DPS		ntact, to tun	Not supported.
Horton 5190 ⁹	30.5558		CN20 2 = interior 3 = exterior		CN7 COM	CN16 ORANGE (10)		CN16 YELLOW (9)	DPS		ny dry-coi Be certain	Not supported.
Hunter HA, Ditec HA8	30.5558		ACT		RTN	SAFE 2		RTN	DPS gr		Connect any c Be c	Not supported.
Keane-Monroe K	30.5558		GREEN		WHITE	YELLOW		WHITE	DPS		Con	Not supported.
LCN Digital / Senior Swing	30.5558		P6 YELLOW		P6 GRAY	P2 GREEN		P2 WHITE	DPS			Not supported.
Record 6000/8000 ¹⁰	4	6	2		1		10	11	DI	PS .		Refer to BEA product User's Guide and OEM manual.
Stanley "L" ¹¹	30.5558		ORANGE		YELLOW	BLUE		YELLOW	D	DPS		Not supported.
Stanley MP	30.5558		2		8	7		8	DPS			Not supported.
Stanley MC 521 ¹²	30.5	30.5558			TB4-3	TB3-4		TB3-3	see note 3			Refer to BEA product User's Guide and OEM manual.
Stanley MC 521 Pro and IQ 12	TB4-5	TB4-6	TB4-4		TB4-3	TB3-4		TB3-3	see n	ote 3		Refer to BEA product User's Guide and OEM manual.
Tucker	30.5558		J4-10		J4-8 jumped to 12 & 13		J4-14	J4-8 jumped to 12 & 13	J5 - 4	and 5		Not supported.
Tormax 130iMotion	30.5558		INPUT C #2		INPUT C #1	SAFETY A #2		SAFETY A #1	DPS			Refer to BEA product User's Guide and OEM manual.
Tormax TDA	30.5558		2		8	7		8	DPS		Not supported.	
Tormax TTX II	30.5	558	5		4			14	D	PS		Not supported.

Note 1				paired with a rectifier must be u will cause damage to the produ						
Note 2	Auxiliary Switch: If installing onto a pair or double-egress, ensure to series both home switches. Switches must close when door is closed.									
Note 3	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	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	2 blues	1 st control						
		(independent controls)	2 purples	2 nd control						
	Eff	Effective November 11, 2017: Monitoring is required for ANSI 156.10 compliance								
Note 4	Jump 17+18, if not used.									
(BESAM ETIK)										
Note 5	Set EXU-SA jumper to "Door open/closed" indication.									
(BESAM SW 100/200, Ditec HA9)	Jump 1+2 on EXU-SA board. Blanking Potentiometer must be set fully counterclockwise.									
,	Auxiliary switch may be used for home switch.									
Note 6		mp 11+3 on ontrol.	iscu for floring switch.							
(DORMA ED	Use ON/OFF/H.O. jumper. Control switches must be used.									
100/250)	Make certain Home Switch Control Function "Sr" is set to 1.									
Nata 7										
Note 7 (GYROTECH 300/400)	Set control to "swing-safe."									
Note 8	Must have daughter board.									
(HORTON 4160-3)										
Note 9	If using the MICROSCAN On/Off/Hold switch, BEA recommends using CN20 terminal 2.									
(HORTON 5190)	The CN1 harness will sync two operators so you do not have to use both door control "a" and "b" harnesses.									
Note 10	Jump 11+12 and 14+15.									
(RECORD 6000/8000)										
Note 11			al (silver), "L" shape cont	rol does not have stall. A contro	ol					
(STANLEY "L")	with stall must be used.									
Note 12	Jump TB2 2+3 (if not using factory On/Off/Hold Switch).									
(STANLEY MC521 / MC521 PRO and IQ)										

