Digitrax Detection & Signaling Specification Sheet

BDL162 LocoNet Occupancy Detector, 16 Detection Sections

Amperage	3 Amp Capacity per Detection Section
Layout Interface	44 pin Edge Connector
External Power	Yes, (PS14)
Ability to work on non Digitrax Layouts	Yes
Transponding Interface	10 pin Connector
Transponding Zones	4
RX4 Interfaces	1
Occupancy Detection Zones	16
Detects Powered Locomotives	Yes
Detects Un-Powered Rolling Stock	Yes, (With Installed Resistor Wheel sets)
Outputs for LED's to Indicate Detection	Yes

Prod Date	2002	**Discontinued**	2004	**Replaced By**	Current
MSRP	US$149.99			**SKU**	

Top Pin	Bottom Pin	Name	Connect To
1	A	Zone A	Connection to booster for Zone A
2	B	DS 1	Isolated track section for Detection Section 1
3	C	DS 2	Isolated track section for Detection Section 2
4	D	DS 3	Isolated track section for Detection Section 3
5	E	DS 4	Isolated track section for Detection Section 4
6	F	Zone B	Connection to booster for Zone B
7	H	DS 5	Isolated track section for Detection Section 5
8	J	DS 6	Isolated track section for Detection Section 6
9	K	DS 7	Isolated track section for Detection Section 7
10	L	DS 8	Isolated track section for Detection Section 8
11		Ground**	LocoNet/BDL168 ground to Booster case/common ground
	M		Nothing attached to this pin
12		AC Power 1*	Power input to BDL168 : AC 12V to 15V, or +DC 12V to 15V
	N	AC Power 2*	Power input to BDL168 : AC 12V to 15V, or +DC 12V to 15V
13	P	Zone C	Connection to booster for Zone C
14	R	DS 9	Isolated track section for Detection Section 9
15	S	DS 10	Isolated track section for Detection Section 10
16	T	DS 11	Isolated track section for Detection Section 11
17	U	DS 12	Isolated track section for Detection Section 12
18	V	Zone D	Connection to booster for Zone D
19	W	DS 13	Isolated track section for Detection Section 13
20	X	DS 14	Isolated track section for Detection Section 14
21	Y	DS 15	Isolated track section for Detection Section 15
22	Z	DS 16	Isolated track section for Detection Section 16

OPSW	t=thrown (factory default)	c=closed
01	Set up for operation with direct home wired layouts (Digitrax recommended wiring)	Set up for whole layout common rail wired layouts
05	Disable Transponding	Enable Transponding
09	Detection sections show occupied when zone power is off	no forced occupied detection when zone power is off
10	Use detection section 16 as a normal detection section.	Use detection section 16 as zone power ON qualifier for whole layout common rail wiring
11	Allow this BDL16 to be the	Do not allow this BDL16

	master.	to be master
12	Allow this BDL16 to terminate LocoNet	Do not allow this BDL16 to terminate LocoNet
13	Power up delay 5 seconds for DB150 compatibility	Power up delay 1/2 second
19	Use regular threshold sense DCC occupancy. (approx 22k ohms minimum)	Use high threshold sense DCC occupancy (approx. 10k ohms minimum)
25	16 LEDs show occupancy	Drive 16 occupancy LEDs from SWITCH commands (not occupancy)
26	Occupancy LEDs decoded from track DCC switch commands	Occupancy LEDs decoded from LocoNet SWITCH commands
40	Direct home wiring compatible	Make all option switches factory default

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