EZ-FEED PCB I/O BOARD #1 POTENSIOMETER/FREQUENCY

SAFETY ON/OFF 115 VAC OUTPUT MODULE DAC5 (BLK)
TB1-1
TB1-2
LED
PLANT INTERFACE BOARD
YEL BLU RED BLK
12 AWG MINIMUM UP TO 10 FT, 10 AWG MINIMUM OVER 10 FT. (THHN)
GRN
WHT
BLK
BLU
BRN
SNUBBER 0.1 & 22ohm
3K 10W
0.05
0.05
K1
TBX-3 L2
TBX-2 GND
TBX-1 L1
TBX-6
TBX-5
TBX-4
+12VDC -12VDC +5VDC GND L2 L1
HARDWARE POWER ON/OFF
2 AMP
INDICATES WHEN L1 FROM COLLECTOR IS SUPPLIED.
INDICATES WHEN L1 IS SUPPLIED TO BOARDS
6K
POWER SUPPLY
POWER SUPPLY ENCLOSURE
LINE 2 LINE 1
10AMP EMI/RFI FILTER
LOAD 2 LOAD 1
L1 SUPPLIED TO BOARDS (REQUIRES L1 WHEN COLLECTOR RUNNING AND SIGNAL FROM PC)
CONNECTIONS WITH-IN DASHED LINES ARE PRE-WIRED
GROUND TO COMPUTER POWER SUPPLY CASE
L2 (neut)
GND
L1 (120vac hot)
PLANT CONTROL POWER (SEPARATE BREAKER)
TACH POWER SUPPLY
+X VDC
OPTIONAL
L1 WHEN COLLECTOR IS RUNNING
115V SONA-LERT
OPTIONAL
POWER DROP-OUT ALARM
EZ-BLEND/FEED PLANT INTERFACE NEMA BOX

This is the "data link" return ground plane wire. It is not an option, it is REQUIRED. Each data link in the system must have it's own. Each must be terminated at both ends with ring terminals either soldered or gas tight crimped. One end of EACH must be attached to the MAIN CONTROL computer's power supply case screw and the other to EACH plant interface board's auxiliary ground terminal. Do not tie them together except at the computer power supply case screw.

*** CAUTION ***

SOME SHIELD WIRES ARE ELECTRICALLY "HOT" TO GROUND, IT IS THEREFORE NECESSARY TO INSULATE THE PIGTAILS

NOTE:

USE 18ga SHIELDED CABLES BETWEEN DRIVES & EZ-FEED WHERE SHOWN.

RUN THE SHIELDED CABLE IN SEPERATE CONDUIT AT LEAST 18 INCHES AWAY FROM POWER WIRES.

B & B LIGHT INDUSTRIAL
CLAREMORE (Tulsa), OK. 74017

EZ-BLEND/FEED
POT-SIM COLD FEED PCB FIELD WIRING TO Altivar 930/950 VFDs
(BINS 9-12) w/ B & S MANUAL PANEL

SCALE: | DATE: | SHEET 1 of 1
DWN. BY: RY | 04-10-12 | DRAWING NUMBER D361-25-03 | REV A
CHKD BY:
APP BY:

CABINET GROUND
L1 WHEN COLLECTOR RUNNING & COMPUTER OKAY
TB1-1
TB2-4
TB2-3
TB1-8
TB1-9
TB1-10
TB1-5
TB1-7
TB1-6
TB2-2
TB2-1 L2
FEEDER RUN
L1 WHEN COLLECTOR IS RUNNING
SHIELD BLK
WHT
RED
BLK
WHT
FEED LOSS
START/STOP CTRL SELECTION SW. AUTO OFF MANUAL
SPEED CONTROL SELECTION SW. AUTO MAN
2K MANUAL SPEED
91 6 599 590 591 593 92 599 590 592 594
Red Lion CUB5 1.25 GPM INP COM INP A
SHIELD (N/C)
NEUT
DI1 FWD +24 SW1=Source REV DI2 COM COMMON AI1 SIGNAL +10 POT REFERENCE
SQUARE D ALTIVAR ATV-930/950 INVERTER DRIVE
L1 L2 L3 Ø1 Ø2 AC INPUT Ø3
U V W GND
MOTOR
BIN 9
FEEDER
FEED LOSS SWITCH
TACH 1200 PPR
SHIELD (N/C)
TYPICAL WIRING, MODIFY AS NECESSARY

TB2-8
TB2-7
TB1-15
TB1-16
TB1-17
TB1-12
TB1-14
TB1-13
TB2-6
TB2-5 L2
101 609 600 601 603 102 609 600 602 604
BIN 10

TB2-12
TB2-11
TB1-22
TB1-23
TB1-24
TB1-19
TB1-21
TB1-20
TB2-10
TB2-9 L2
111 619 610 611 613 112 619 610 612 614
BIN 11

TB2-16
TB2-15
TB1-29
TB1-30
TB1-31
TB1-26
TB1-28
TB1-27
TB2-14
TB2-13 L2
121 629 620 621 623 122 629 620 622 624
BIN 12

ADDITIONAL EZ-BLEND OR FEED BOARDS AS REQUIRED

TO OTHER INTER-FACE BOARDS AS REQUIRED.

SINGLE CHANNEL SHAFT ENCODERS (USUALLY CURRENT SINK) (Most have MS3102E-14S-6P connectors, use MS3106A-14S-6S mating connectors)					
PIN	DYNALCO (CMI) PG278	RED LION RPG's	DYNAPAR 'QUBE' SERIES 21/22	DYNAPAR 62512000010	ACCUCODER MODEL 711
A	120 VAC	PWR SOURCE	SIGNAL COMMON	SIGNAL OUT	
B	120 VAC	COMMON	POWER SOURCE		POWER SOURCE
C	NO CONNECTION	SIGNAL OUT	CASE GROUND		
D	SIGNAL OUTPUT		SIGNAL OUT	POWER SOURCE	SIGNAL OUT
E	SIGNAL COMMON				
F	CASE GROUND		SUPPLY COMMON	SUPPLY COMMOM	SUPPLY COMMOM

TAIL-SHAFT TACH's NOTE:
RED LION DITAK-6 DIGITAL RPM DISPLAYS REQUIRE A ZENER DIODE (USUALLY 7V) IN SERIES WITH THEIR #2 INPUT WHEN USED WITH ANY ENCODERS THAT OUTPUTS OVER 5 V P-P SIGNAL.

120 VAC CMI (DYNALCO PG278) 300 PPR DIGITAL TACH
* NOT RECOMMENDED *
(F IS CASE GROUND, C IS NOT CONN.)
SHIELD (N/C)
10V 0 V
COMMON +VDC SIGNAL

DYNAPAR H21-XXXX-100221-0311000 (only) or RED LION RPG w/ CONN
SHIELD (N/C)

BLK RED WHT
RED LION RPGD 5001000
SHIELD (N/C)
OPEN COLL. 5-28 VDC

ACCUCODER MODEL 711
SHIELD (N/C)

DYNAPAR 'QUBE' SERIES 21/22
SHIELD (N/C)

DYNAPAR # 62512000010
SHIELD (N/C)