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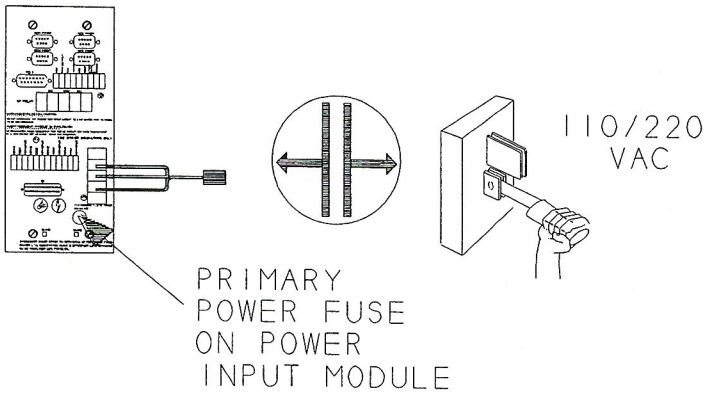
Find the *GE / Bently Nevada 3300/12* at our website: *Click HERE*

6 TESTING AND TROUBLESHOOTING

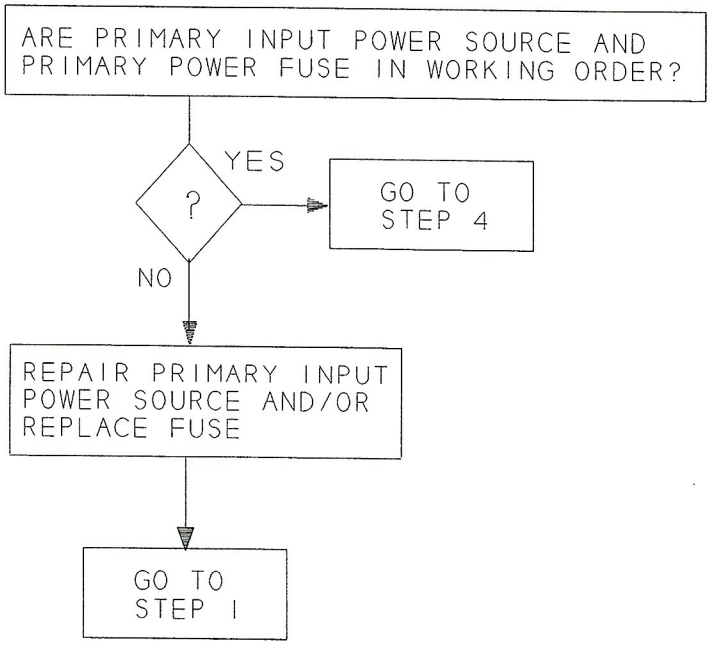
WARNING

High voltage present. Contact could cause shock, burns, or death.

Do not touch exposed wires or terminals.

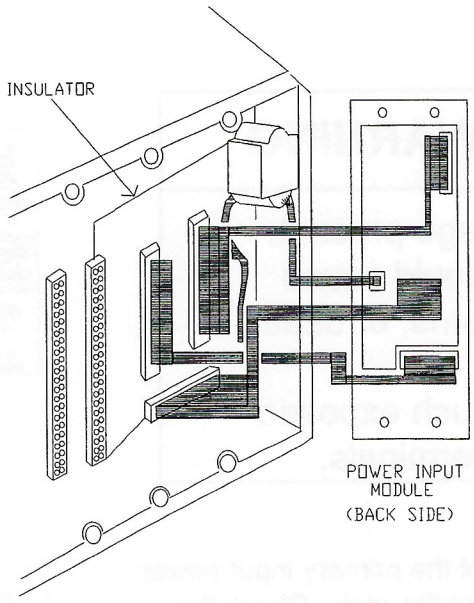


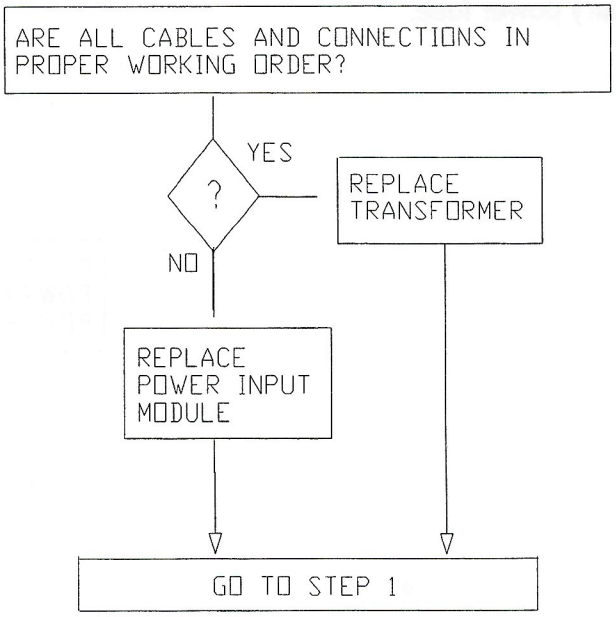
3. Disconnect the primary input power source from the rack. Check the primary input power source and the primary power fuse.



6 TESTING AND TROUBLESHOOTING

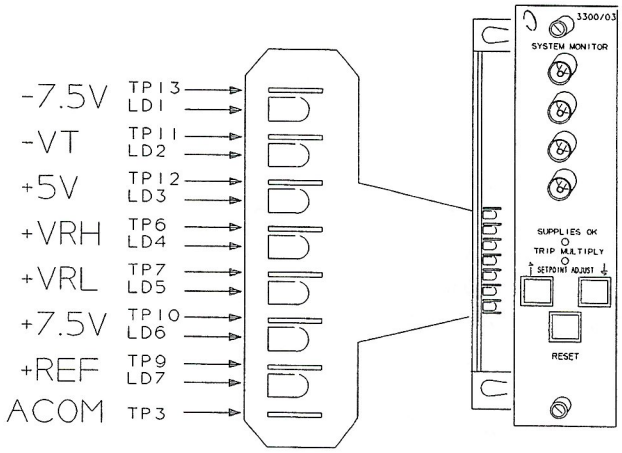
4. Leaving the rack disconnected from the primary input power source, loosen the Power Input Module screws and carefully pull the module away from the rack as far as the connecting cables will allow. Check that the cabling and connections between the Power Input Module, power transformer, and backplane is correct and connected tightly. When this step is complete, repeat the test starting with Step 1. Do not apply power to the rack until the Power Input Module is completely installed.





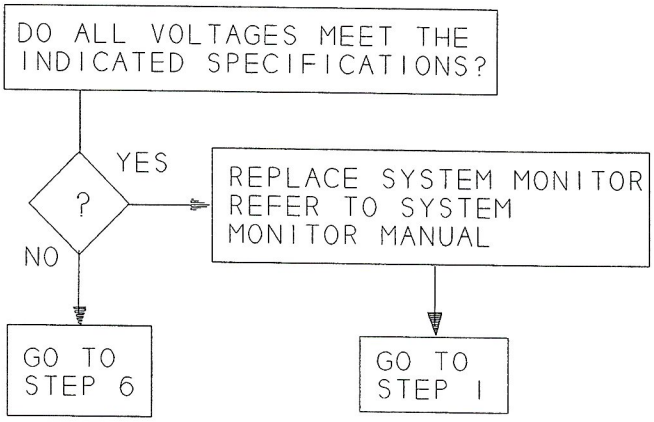
6 TESTING AND TROUBLESHOOTING

5. Measure the dc voltages at the test points indicated (referenced to ACOM TP3) on the System Monitor as shown. All voltages should meet the specifications given in the table at right.



VOLTAGE	TEST PT	TOLERANCE (VDC)
-7.5V	TP13	-7.40 TO -7.60
-VT (-24V)	TP11	-23.30 TO -24.20
-VT (-18V)	TP11	-17.50 TO -18.30
+5V	TP12	+4.95 TO +5.05
+VRH	TP6	+17.30 TO +30.00
+VRL	TP7	+8.00 TO +15.70
+7.5V	TP10	+7.40 TO +7.60
+REF	TP9	+4.991 TO +5.009

VOLTAGES REFERENCED TO ACOM (TP3)

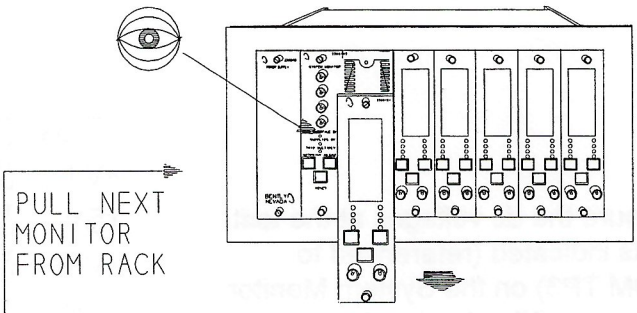


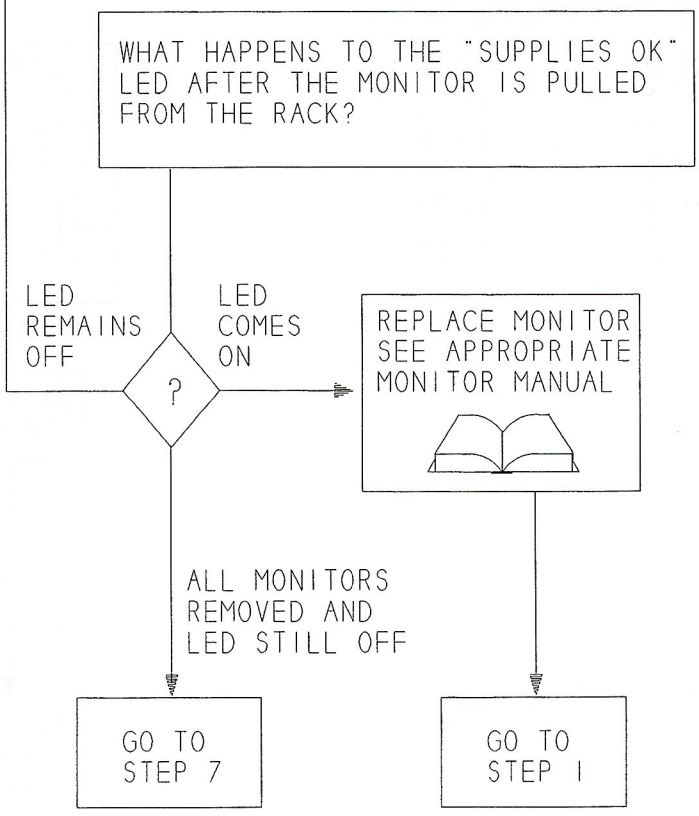
6 TESTING AND TROUBLESHOOTING

CAUTION

Machine protection will be lost.

6. Leaving the Power Supply and System Monitor in the rack, take one monitor at a time out of the system. Loosen the front panel screws on a monitor and disengage the monitor from the rack by pulling it forward out of the front of the rack, approximately two inches. Observe the System Monitor **SUPPLIES OK** LED after the monitor is pulled from the rack. Continue disengaging monitors from the rack until the **SUPPLIES OK** LED comes on, or until all monitors are disengaged from the rack.





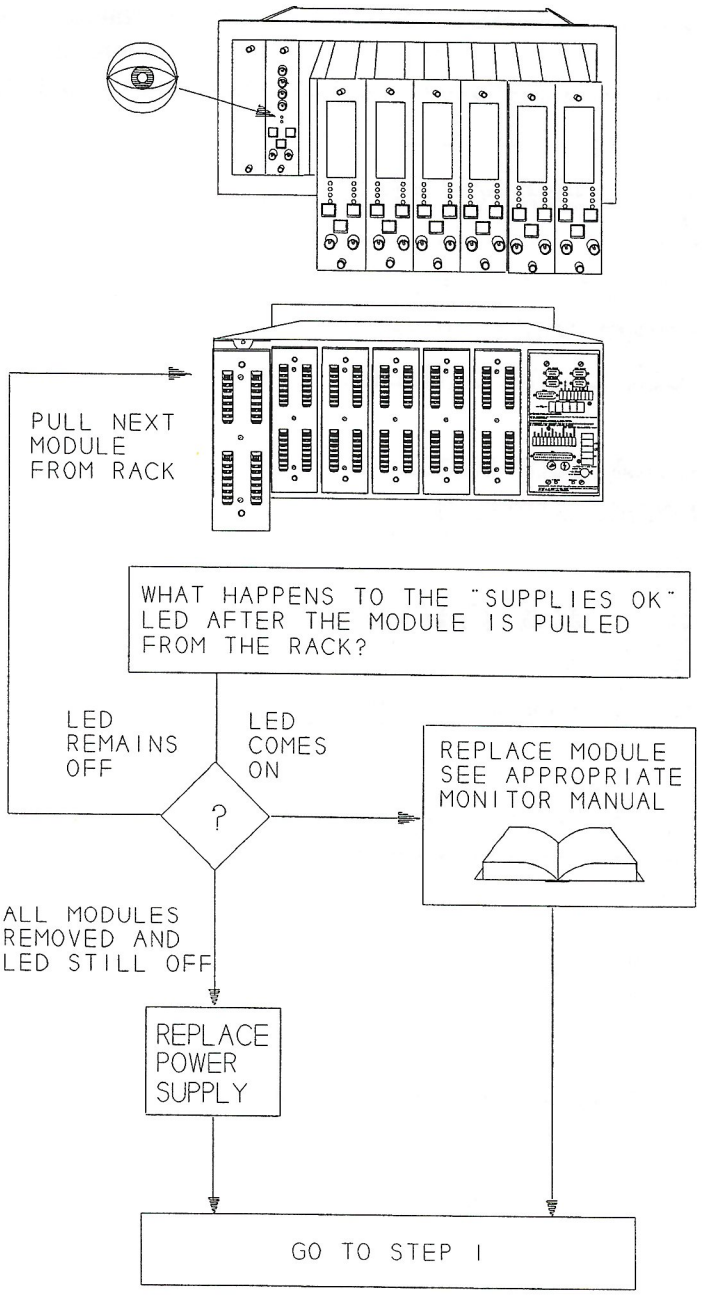
6 TESTING AND TROUBLESHOOTING

WARNING

High voltage present. Contact could cause shock, burns, or death.

Do not touch exposed wires or terminals.

7. Leaving the monitors disengaged from the rack, take one Signal Input Module at a time out of the system. Loosen the retainer screws on a module and disengage the module from the backplane by pulling it forward, away from the back of the rack, about two inches. Observe the System Monitor **SUPPLIES OK** LED after the module is pulled from the rack. Continue disengaging modules from the rack until the **SUPPLIES OK** LED comes on, or until all modules are disengaged from the rack. If all the modules are disengaged from the rack and the **SUPPLIES OK** LED still does not come on, replace the Power Supply and repeat the test starting with Step 1.



7 DATA COMMUNICATION INTERFACE OPTIONS

The Power Input Module can be configured to use an RS-232 or RS-422 interface with the Serial Data Interface (SDI) and/or the Dynamic Data Interface (DDI). Systems are shipped from the factory with both the SDI and DDI links optioned for RS-232 operation. Use this procedure to select RS-232, RS-422 or "unused" for the SDI and DDI communication interface links. The 3300/03 Serial Data Interface and Dynamic Data Interface manual provides details about these options.

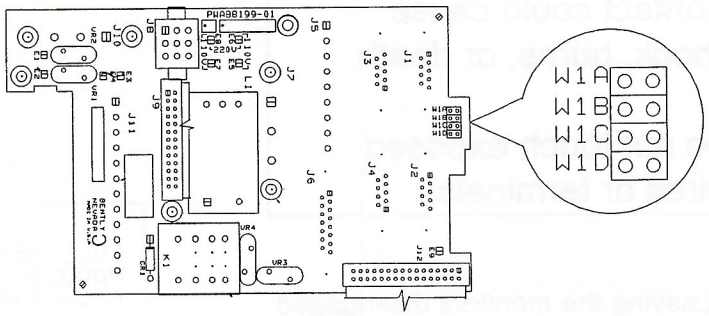
WARNING

High voltage present. Contact could cause shock, burns, or death.

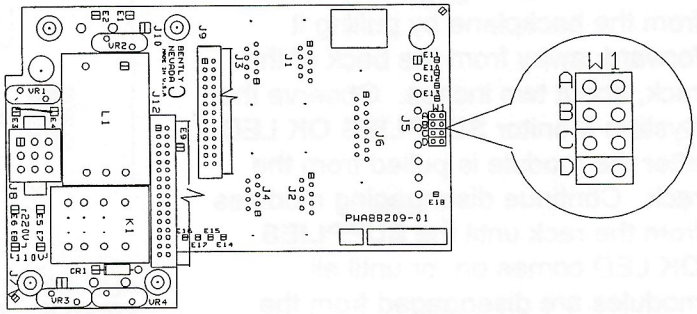
Do not touch exposed wires or terminals.

CAUTION

Machine protection will be lost.



STANDARD POWER INPUT MODULE



POWER INPUT MODULE WITH BARRIERS

1. Disconnect the primary power source from the Power Input Module (Sec. 3, Step 1).
2. Remove the Power Input Module from the rack (Sec. 3, Steps 5-7).
3. Change the jumper options on the Power Input Module circuit board as shown in the table at right.
4. Reinstall the Power Input Module to the rack.
5. Reconnect the primary power source to the Power Input Module.

COMM LINK	DDI HOST INSTALL	DDI HOST REMOVE	SDI HOST INSTALL	SDI HOST REMOVE
RS-422	WID	WIC	WIB	WIA
RS-232	WIC	WID	WIA	WIB
UNUSED	WIC	WID	WIA	WIB

8 TRANSDUCER VOLTAGE OPTION

This section shows how to set the transducer voltage to -24 Vdc or -18 Vdc.

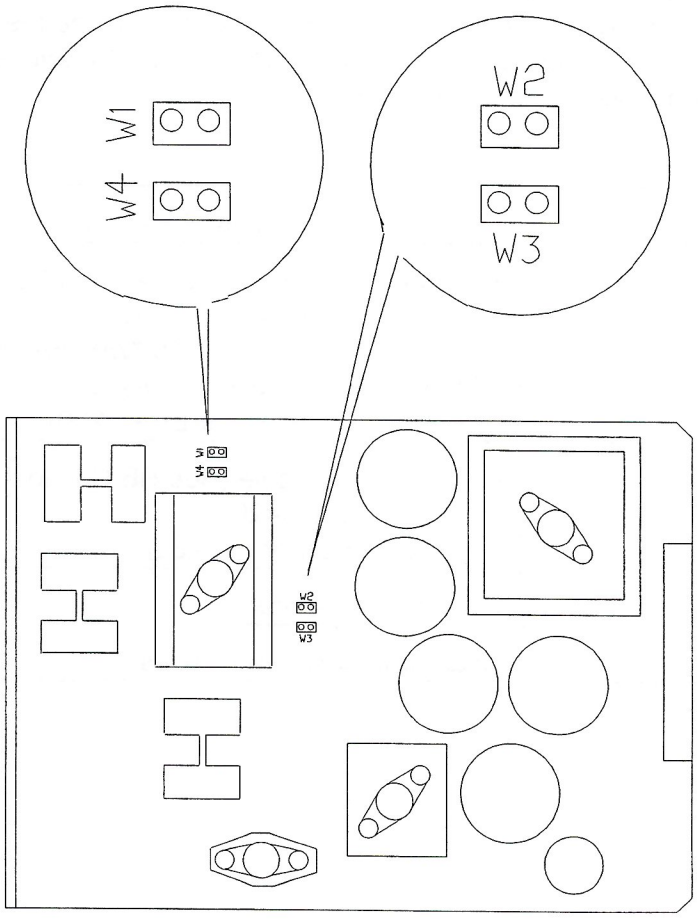
CAUTION

Machine protection will be lost.

1. Remove the Power Supply from the rack (Sec. 3, Steps 1-3).

2. Change the jumper options on the Power Supply regulator board as shown in the table at right.

3. Reinstall the Power Supply to the rack.



CAUTION

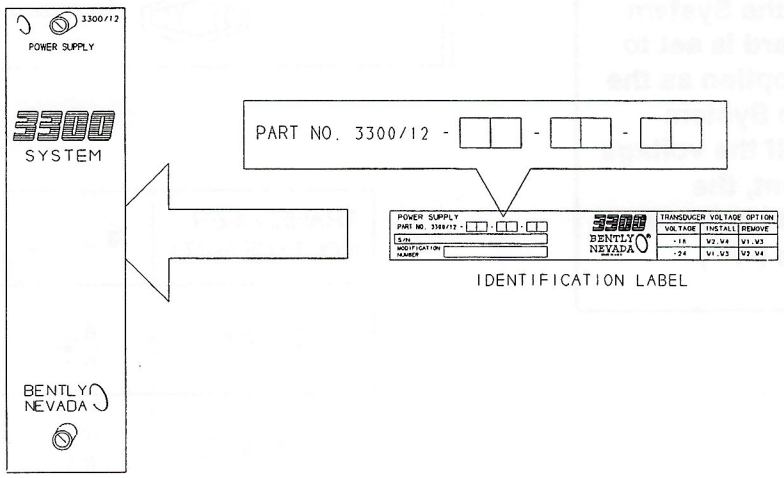
Make sure the transducer voltage option on the System Monitor circuit board is set to the same voltage option as the Power Supply (see System Monitor manual). If the voltage options are different, the System Monitor will indicate a transducer voltage (-VT) tolerance error.

TRANSDUCER VOLTAGE (-VT)	REMOVE	INSTALL
-24 VDC	W2 W4	W1 W3
-18 VDC	W1 W3	W2 W4

9 RECOMMENDED SPARE PARTS

To order replacement parts, specify the complete catalog number, 3300/12— ☐☐ — ☐☐ — ☐☐ ,as indicated on the identification label on the back side of the front panel. If the Power Supply has been modified (also shown on identification label), include the modification number on the parts order. If you are in doubt as to the proper part numbers to request, contact your Bently Nevada Corporation representative for assistance.

QTY	DESCRIPTION	PART NUMBER
1	Primary Power Fuse (See AA and CC Catalog Options) AA=01, CC=00 or 01 : 250V/1.50A, Time Lag AA=02, CC=00 or 01 : 250V/0.75A, Time Lag AA=01, CC=02 (BASEEFA): 250V/2.50A, Time Lag AA=02, CC=02 (BASEEFA): 250V/1.25A, Time Lag	 01701500 01703118 01710512 01720007
1	Power Input Module (See BB Catalog Option) Standard (BB=20) Internal Barrier (BB=22)	 88199-01 88209-01
1	Power Transformer	00270143
1	Spare Jumpers (100 pieces)	88706-01



10 SPECIFICATIONS

POWER INPUT

110 Vac Option:	95 to 125 Vac, Single Phase, 50 to 60 Hz, 0.6 A maximum.
220 Vac Option:	190 to 250 Vac, Single Phase, 50 to 60 Hz, 0.3 A maximum.
Start Up Surge:	20 A peak (7 A rms) for one cycle.
Surge Suppression:	Clamp Voltage 285 to 300 V rms. Peak Surge Current 100 A for 6 msec maximum.
Power Dissipation:	60 W average.

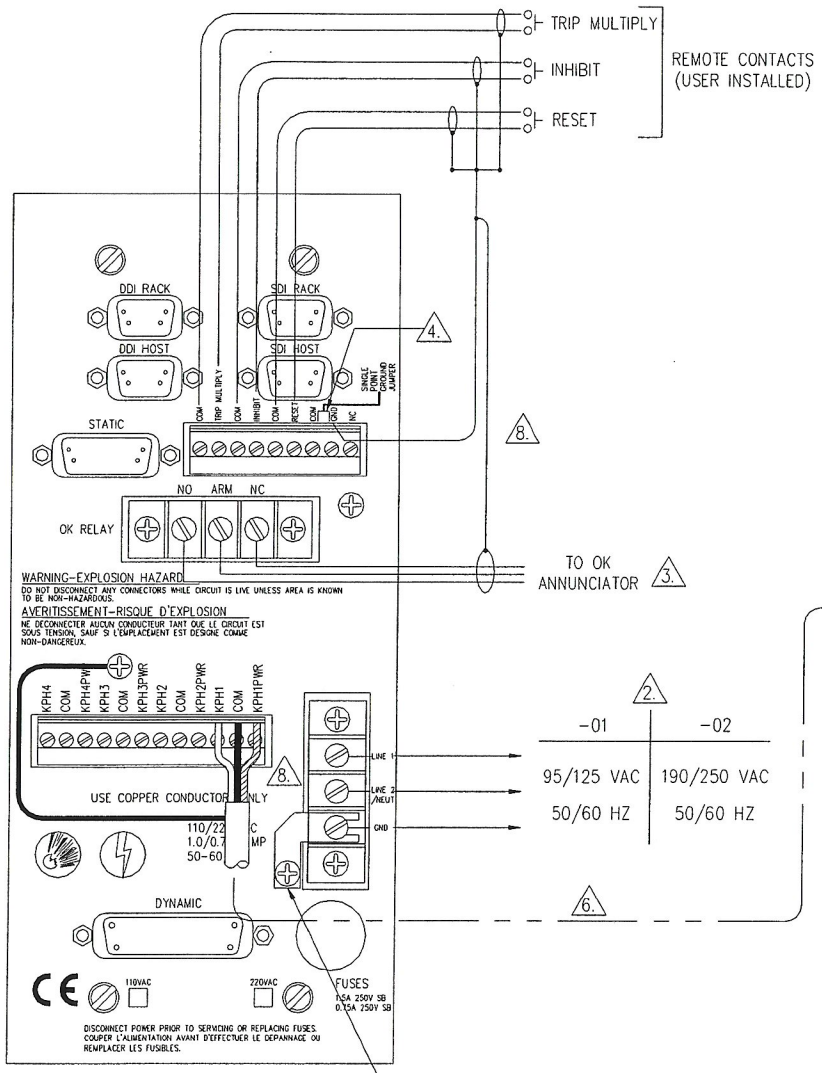
ENVIRONMENTAL

Operating Temperature:	+32°F to +149°F (0°C to +65°C)
Storage Temperature:	-40°F to +185°F (-40°C to +85°C)
Relative Humidity:	0 to 95%, noncondensing

11 FIELD WIRING DRAWINGS

DRAWING TITLE	DRAWING NO.	SHEETS
FIELD WIRING DIAGRAM 3300 AC PIM, STANDARD	104297	2
FIELD WIRING DIAGRAM 3300 AC PIM, EXTERNAL BARRIERS	104298	2
FIELD WIRING DIAGRAM 3300 AC PIM, INTERNAL BARRIERS	104649	2

REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
	A	REVISED OK RELAY RATING	JC	3 APR 92	CG	3 APR 92
	B	REVISED PANEL VIEW	JC	13 APR 92	CG	13 APR 92
	C	INC CCO 39831	S. EKMAN		ON AS400	



POWER INPUT MODULE WITHOUT BARRIERS

SEE SHEET 2

NOTES: UNLESS OTHERWISE SPECIFIED

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DRAWN ON CAD BY: J CALLISTER	DATE: 28 FEB 92	
CHECKED BY:		
ENGINEER: C. GARBINSKI	12 MAR 92	
MFG.		
APPD		

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FIELD WIRING DIAGRAM 3300/12 POWER INPUT MODULE

CODE IDENT NO.	SIZE	DWG NO.
20230	D	104297

SCALE NONE — SHEET 1 OF 2

104297

REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
		SEE SHEET 1	—	—	—	—

NON-BARRIER SYSTEM FIELD WIRING NOTES

1. WIRING RECOMMENDATIONS:
   POWER INPUT MODULE TO PROXIMITORS: 18AWG TO 22AWG STRANDED 3 WIRE SHIELDED WITH INSULATING SHEATH.
   POWER INPUT MODULE TO REMOTE CONTACTS: 18AWG TO 22AWG STRANDED 2 WIRE WITH INSULATING SHEATH.

2. WIRE GAUGE AND TYPE SELECTED PER LOCAL CODE REQUIREMENTS. POWER REQUIREMENTS ARE: 95-125 VAC, 50/60 HZ, SINGLE PHASE, 1.0 A MAXIMUM, OR 190-250 VAC, 50/60 HZ, SINGLE PHASE, 0.5 A MAXIMUM.
   POWER SURGE AT START-UP: 20 A PK FOR ONE CYCLE.

3. OK RELAY CONTACT RATING: 5 A @ 28 VDC, OR 5 A @ 120 VAC, 50/60 HZ, OR 3 A @ 220 VAC, 50/60 HZ, RESISTIVE MAXIMUM.

4. TO MINIMIZE GROUND LOOP NOISE PROBLEMS, A SINGLE POINT EARTH GROUND (GND) TO SYSTEM COMMON (COM) CONNECTION IS RECOMMENDED.

5. THE 3000 AND 7200 PROXIMITOR CASES MUST BE ELECTRICALLY ISOLATED FROM EARTH GROUND. ELECTRICAL ISOLATION: 500 VAC (RMS) MINIMUM. ISOLATION KIT P/N 19094-01 MAY BE USED TO SATISFY ISOLATION REQUIREMENTS. WIRING FOR THE 7200 AND 3000 PROXIMITORS IS THE SAME AS SHOWN FOR THE 3300 PROXIMITOR.

6. MAXIMUM CABLE LENGTH BETWEEN POWER INPUT MODULE AND PROXIMITORS SHOULD NOT EXCEED 1000 FEET (305 METRES).

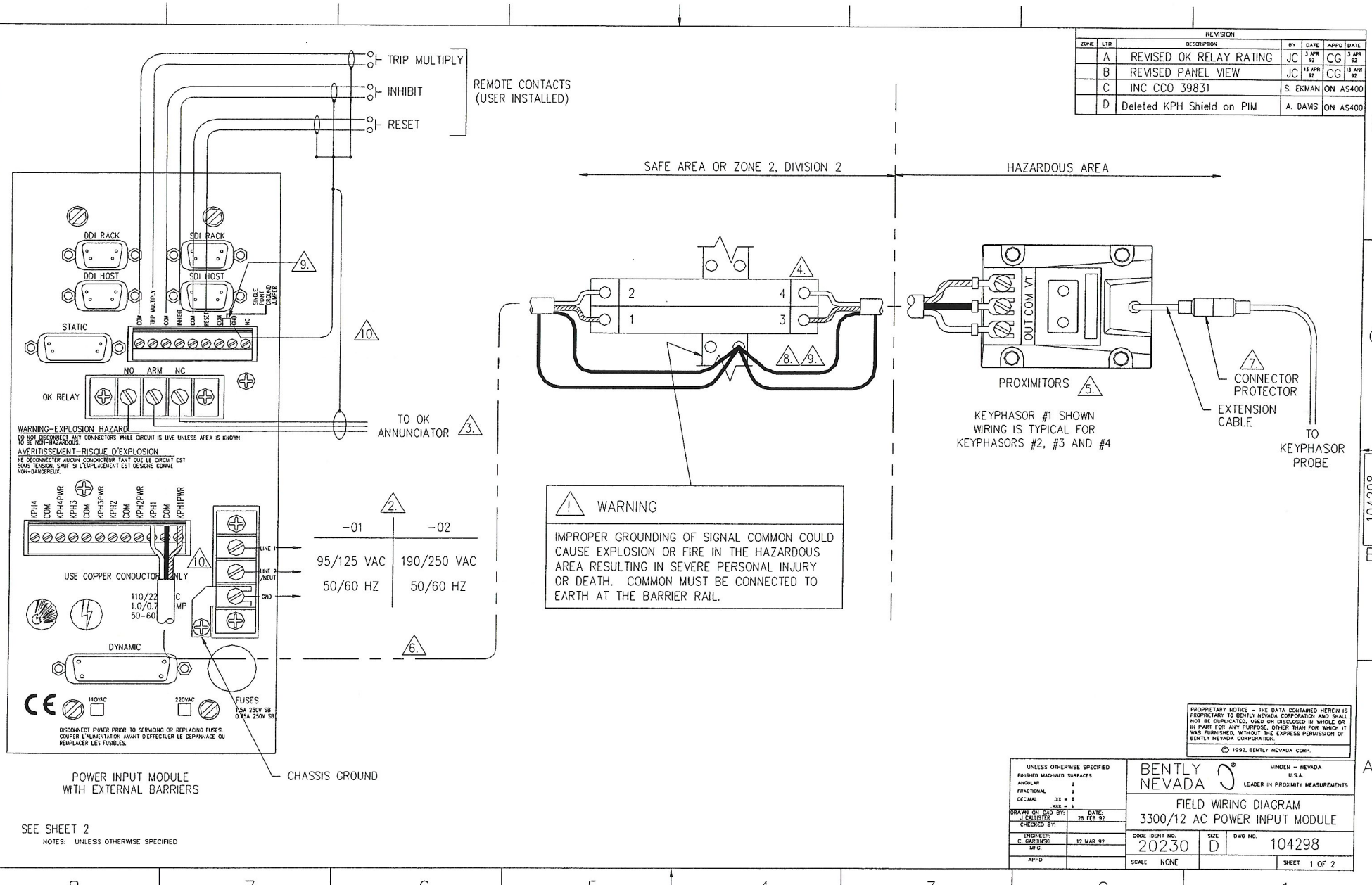
7. TO ELECTRICALLY ISOLATE AND PROTECT COAXIAL CONNECTIONS, USE CONNECTOR PROTECTOR KIT 40113-02.

8. SHIELDS ARE SPLICED INTO A SINGLE WIRE, THEN GROUNDED AS SHOWN, TERMINATING AT THE CHASSIS IN TWO PLACES. SHIELDS SHOULD BE INSULATED.

NOTES: UNLESS OTHERWISE SPECIFIED

CODE IDENT NO.	SIZE	DWG NO.
20230	D	104297
SCALE NONE		SHEET 2 OF 2

104297



SEE SHEET 2

NOTES: UNLESS OTHERWISE SPECIFIED

REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
	A	REVISED OK RELAY RATING	JC	3 APR 92	CG	3 APR 92
	B	REVISED PANEL VIEW	JC	13 APR 92	CG	13 APR 92
	C	INC CCO 39831	S. EKMAN		ON AS400	
	D	Deleted KPH Shield on PIM	A. DAVIS		ON AS400	

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DRAWN ON CAD BY: J CALISTER	DATE: 28 FEB 92	
CHECKED BY:		
ENGINEER: C. GARBINSKI	12 MAR 92	
MFG.		
APPD		

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LEADER IN PROXIMITY MEASUREMENTS

FIELD WIRING DIAGRAM
3300/12 AC POWER INPUT MODULE

CODE IDENT NO.	SIZE	DWG NO.
20230	D	104298

SCALE NONE — SHEET 1 OF 2

104298

REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
		SEE SHEET 1	—	—	—	—

EXTERNAL BARRIER SYSTEM FIELD WIRING NOTES

1. WIRING RECOMMENDATIONS:
   POWER INPUT MODULE TO BARRIERS – BARRIERS TO PROXIMITORS: 14AWG TO 18AWG STRANDED 3 WIRE, SHIELDED WITH INSULATING SHEATH.
   POWER INPUT MODULE TO REMOTE CONTACTS: 18AWG TO 22AWG STRANDED 2 WIRE WITH INSULATING SHEATH.

2. WIRE GAUGE AND TYPE SELECTED PER LOCAL CODE REQUIREMENTS. POWER REQUIREMENTS ARE: 95–125 VAC, 50/60 HZ, SINGLE PHASE, 1.0 A MAXIMUM OR 190–250 VAC, 50/60 HZ, SINGLE PHASE, 0.5 A MAXIMUM.
   POWER SURGE AT START–UP: 20 A PK FOR ONE CYCLE.

3. OK RELAY CONTACT RATING: 5 A @ 28 VDC, OR 5 A @ 120 VAC, 50/60HZ, OR 3 A @ 220 VAC, 50/60 HZ, RESISTIVE MAXIMUM.

4. USE MTL BARRIER PER DRAWING BA22000, NOTE 14.

5. THE 7200 PROXIMITOR CASES MUST BE ELECTRICALLY ISOLATED FROM EARTH GROUND. ELECTRICAL ISOLATION: 500 VAC (RMS) MINIMUM. ISOLATION KIT P/N 19094–01 MAY BE USED TO SATISFY ISOLATION REQUIREMENTS. WIRING FOR THE 3000 AND 7200 PROXIMITOR IS THE SAME AS SHOWN FOR THE 3300 PROXIMITOR.

6. MAXIMUM CABLE LENGTH BETWEEN POWER INPUT MODULE AND PROXIMITORS SHOULD NOT EXCEED 1000 FEET (305 METRES).

7. TO ELECTRICALLY ISOLATE AND PROTECT COAXIAL CONNECTIONS, USE CONNECTOR PROTECTOR KIT 40113–02.

8. TRANSDUCER SHIELDS ARE JOINED AS SHOWN TERMINATING AT BARRIER GROUND. SHIELDS SHOULD BE INSULATED.

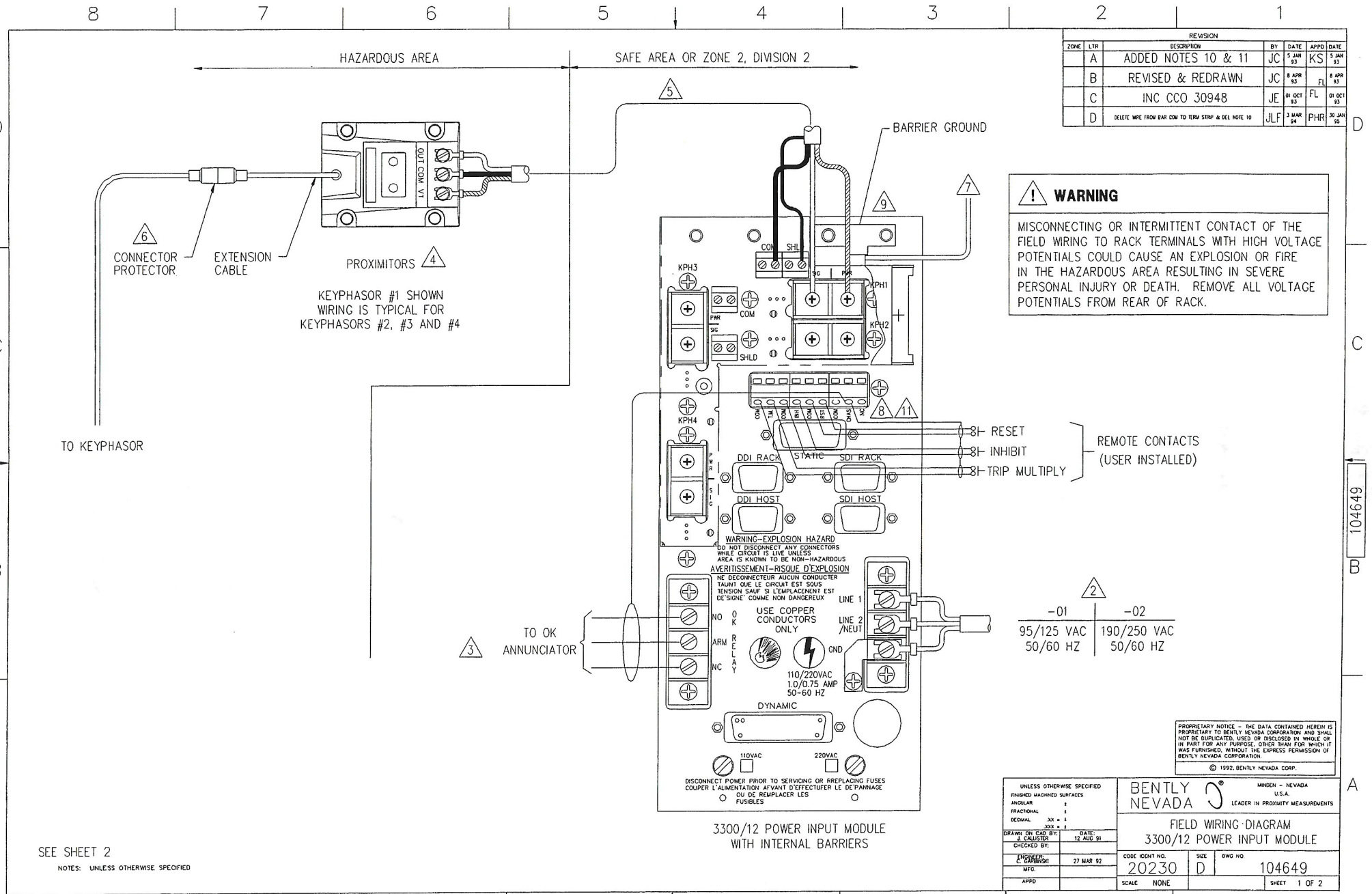
9. BARRIERS ARE MOUNTED TO BARRIER RAIL WHICH IS THE POTENTIAL EQUALIZATION BUS BETWEEN SYSTEM GROUND AND EARTH GROUND. TO MINIMIZE GROUND LOOP PROBLEMS, A SINGLE POINT EARTH GROUND (GND) TO SYSTEM COMMON (COM) CONNECTION IS RECOMMENDED AT THE BARRIER RAIL. TOTAL EARTH LOOP IMPEDANCE MUST NOT EXCEED 1 OHM. REMOVE THE SINGLE POINT GROUND JUMPER ON THE 3300 POWER INPUT MODULE.

10. SHIELDS ARE SPLICED INTO A SINGLE WIRE, THEN GROUNDED AS SHOWN, TERMINATING AT THE CHASSIS IN TWO PLACES. SHIELDS SHOULD BE INSULATED.

NOTES: UNLESS OTHERWISE SPECIFIED

CODE IDENT NO.	SIZE	DWG NO.
20230	D	104298
SCALE NONE		SHEET 2 OF 2

104298



REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
	A	ADDED NOTES 10 & 11	JC	5 JAN 93	KS	5 JAN 93
	B	REVISED & REDRAWN	JC	8 APR 93	FL	8 APR 93
	C	INC CCO 30948	JE	01 OCT 93	FL	01 OCT 93
	D	DELETE WIRE FROM BAR COM TO TERM STRIP & DEL NOTE 10	JLF	3 MAR 94	PHR	30 JAN 95

⚠ WARNING

MISCONNECTING OR INTERMITTENT CONTACT OF THE FIELD WIRING TO RACK TERMINALS WITH HIGH VOLTAGE POTENTIALS COULD CAUSE AN EXPLOSION OR FIRE IN THE HAZARDOUS AREA RESULTING IN SEVERE PERSONAL INJURY OR DEATH. REMOVE ALL VOLTAGE POTENTIALS FROM REAR OF RACK.

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DRAWN ON CAD BY: J. CALLISTER	DATE: 12 AUG 91	FIELD WIRING DIAGRAM 3300/12 POWER INPUT MODULE	
CHECKED BY:			
ENGINEER: C. CARBINSKI	27 MAR 92	CODE IDENT NO. 20230	SIZE D
MFG.		DWG NO. 104649	
APPD		SCALE NONE	SHEET 1 OF 2

SEE SHEET 2

NOTES: UNLESS OTHERWISE SPECIFIED

REVISION						
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE
	D	SEE SHEET 1				

INTERNAL BARRIER SYSTEM FIELD WIRING NOTES

1. WIRING RECOMMENDATIONS:
   POWER INPUT MODULE TO PROXIMITORS: 14AWG TO 18AWG STRANDED
   3 WIRE, SHIELDED WITH INSULATING SHEATH.
   POWER INPUT MODULE TO REMOTE CONTACTS: 18AWG TO 22AWG STRANDED
   2 WIRE WITH INSULATING SHEATH.

2. WIRE GAUGE AND TYPE SELECTED PER LOCAL CODE REQUIREMENTS. POWER REQUIREMENTS
   95-125 VAC, 50-60 HZ, SINGLE PHASE, 1.0 AMP MAX. OR
   190-250 VAC, 50-60 HZ, SINGLE PHASE, 0.5 AMP MAX.
   POWER SURGE AT START-UP: 20 AMP PEAK FOR ONE CYCLE.

3. OK RELAY CONTACT RATING: 5A @ 28VDC, OR 5A @ 120VAC, 50/60 HZ,
   OR 3A @ 220VAC, 50/60 HZ, RESISTIVE, MAXIMUM.

4. THE 7200 PROXIMITOR CASES MUST BE ELECTRICALLY ISOLATED FROM EARTH GROUND.
   ELECTRICAL ISOLATION: 500 VAC (RMS) MINIMUM. ISOLATION KIT P/N 19094-01 MAY BE
   USED TO SATISFY ISOLATION REQUIREMENTS. WIRING FOR THE 3000 AND 7200 PROXIMITORS
   IS THE SAME AS SHOWN FOR THE 3300 PROXIMITOR.

5. MAXIMUM CABLE LENGTH BETWEEN POWER INPUT MODULE AND PROXIMITORS SHOULD NOT
   EXCEED 1000 FEET (305 METRES).

6. TO ELECTRICALLY ISOLATE AND PROTECT COAXIAL CONNECTIONS, USE CONNECTOR
   PROTECTOR KIT 40113-02.

7. REDUNDANT CONNECTIONS TO THE MAIN EARTH BUS. IF EXTERNAL
   BARRIERS ARE ALSO USED WITH THIS RACK, THESE CONNECTIONS MUST BE MADE TO THE
   EXTERNAL BARRIER RAIL. TOTAL EARTH LOOP IMPEDANCE (INCLUDING BARRIER RAIL)
   MUST NOT EXCEED 1 OHM.

8. SHIELDS ARE SPLICED INTO A SINGLE WIRE, THEN GROUNDED AS SHOWN, TERMINATING AT THE CHASSIS.
   SHIELDS SHOULD BE INSULATED.

9. AT BARRIER GROUND, SCREWS MUST BE TIGHT TO MAINTAIN PROPER GROUNDING.

10. DELETED

11. DO NOT CONNECT SYSTEM COMMON TO CHASSIS GROUND WHEN BARRIERS ARE BEING USED.

NOTES: UNLESS OTHERWISE SPECIFIED

104649

CODE IDENT NO.	SIZE	DWG NO.
20230	D	104649
SCALE NONE		SHEET 2 OF 2

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