

DWG NO. 10212-0130

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SAFE AREA

HAZARDOUS AREA

Class I, Groups A, B, C, D
Class II, Groups E, F, G

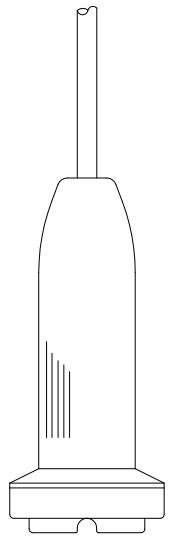
WARNING: TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.

TRANSDUCER ENTITY PARAMETERS

WIRES	VMAX	IMAX	Ci	Li	Pi
Red - Black	28 V	225 mA	0.13 uF	0.0 mH	1.575W
White - Black	28 V	225 mA	0.13 uF	0.0 mH	1.575W

USE THE FOLLOWING PARAMETERS IF CABLE PARAMETERS ARE UNKNOWN.
CABLE CAPACITANCE: 60 pF/ft
(EX.C.cable=1000ft x 60pF/ft=0.06 uF)
CABLE INDUCTANCE: 0.2 uH/ft
(EX.L.cable=1000ft x 0.2 uH/ft=0.2mH)

ALL INTRINSICALLY SAFE WIRING SHALL BE KEPT SEPARATE FROM NON-INTRINSICALLY SAFE WIRING. REFER TO ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE



PRESSURE TRANSDUCER SLX 130-EIS

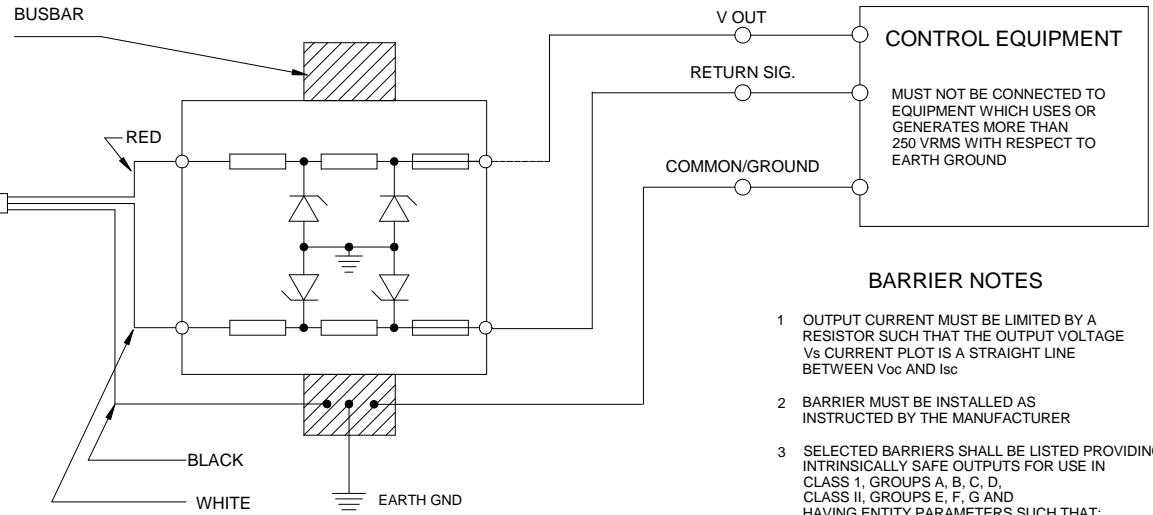
BUSBAR

RED

BLACK

WHITE

EARTH GND



CONTROL EQUIPMENT

MUST NOT BE CONNECTED TO EQUIPMENT WHICH USES OR GENERATES MORE THAN 250 VRMS WITH RESPECT TO EARTH GROUND

BARRIER NOTES

- 1 OUTPUT CURRENT MUST BE LIMITED BY A RESISTOR SUCH THAT THE OUTPUT VOLTAGE Vs CURRENT PLOT IS A STRAIGHT LINE BETWEEN Voc AND Isc
- 2 BARRIER MUST BE INSTALLED AS INSTRUCTED BY THE MANUFACTURER
- 3 SELECTED BARRIERS SHALL BE LISTED PROVIDING INTRINSICALLY SAFE OUTPUTS FOR USE IN CLASS I, GROUPS A, B, C, D, CLASS II, GROUPS E, F, G AND HAVING ENTITY PARAMETERS SUCH THAT:

 $V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $P_i > P_o$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
- 4 TERMINATE BARRIER EARTH GROUND TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL. RESISTANCE TO GROUND MUST NOT BE GREATER THAN 1 OHM

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REV	DATE	DESCRIPTION
01	1/19/04	RELEASED DWG by ES
02	7/28/04	added "VDC output" to title
03	8/19/04	text edits per UL removed "PB"note
04	8/23/04	text edits per UL
05	5/13/08	Edits per manufacturing

TITLE
SLX 130-EIS VDC OUTPUT SYSTEM DIAGRAM for UL 913 INTRINSIC SAFETY CERTIFICATION

SIZE **A** DWG. NO. **10212-0130** REV. **05**

SCALE: DO NOT SCALE PRINT PAGE 1 OF 1