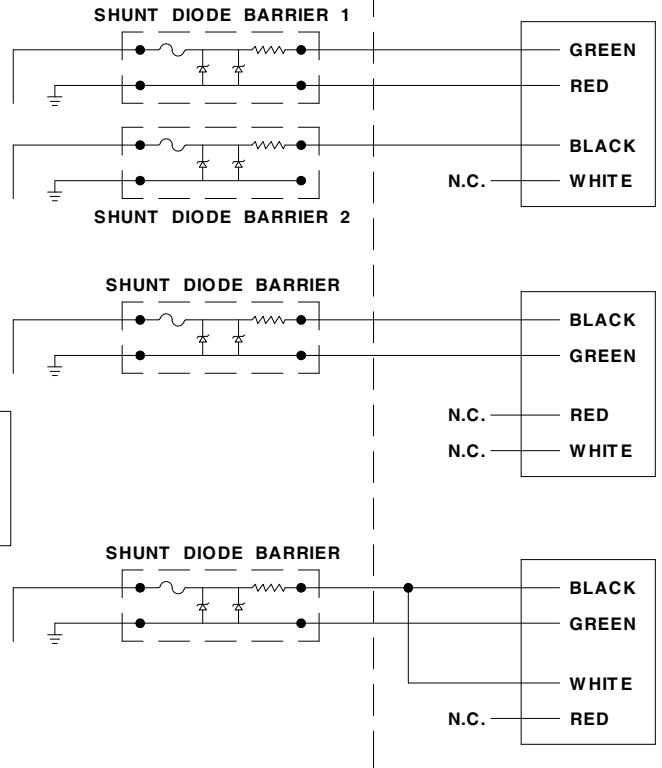


NON HAZARDOUS LOCATION

HAZARDOUS LOCATION CLASS I , GROUPS C AND D



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

BARRIER NOTES:

1. OUTPUT CURRENT MUST BE LIMITED BY A RESISTOR SUCH THAT THE OUTPUT VOLTAGE VERSUS THE CURRENT PLOT IS A STRAIGHT LINE BETWEEN V_{oc} AND I_{sc} .
2. BARRIER MUST BE INSTALLED AS INSTRUCTED BY MANUFACTURER.
3. SELECTED BARRIER INTRINSICALLY SAFE CIRCUITS SHALL BE APPROVED FOR CLASS I , GROUPS C AND D HAZARDOUS LOCATIONS.
4. TERMINATE BARRIER EARTH GROUND TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL, RESISTANCE TO GROUND MUST NOT BE GREATER THAN 1 OHM.
5. ALL INTRINSICALLY SAFE WIRING SHALL BE KEPT SEPARATE FROM NON INTRINSICALLY SAFE WIRING, REFER TO ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.
6. C_a , L_a , V_{oc} AND I_{sc} PARAMETERS SUPPLIED WITH BARRIERS APPROVED FOR ENTITY USE.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CHANGED CABLE LENGTH FORMULA AND EXAMPLE TO MAX. CABLE LENGTH NOT TO EXCEED: 15,500 FEET.	022597	

LISTED MODEL NUMBER
MODEL RSU 800-2

SENSOR ENTITY PARAMETERS

TERMINALS	V_{max}	I_{max}	C_i	L_i
RED - GREEN/BLACK (DUAL)	24V	100mA	0	0
GREEN - BLACK (SINGLE)	24V	100mA	0	0

SELECTED BARRIER TO COMPLY WITH THE FOLLOWING:

- $V_{max} \geq V_{oc}$
- $I_{max} \geq I_{sc}$
- Maximum cable length not to exceed: 15,500 feet.

PNEUMERCATOR COMPANY			
INTRINSICALLY SAFE LOOP		MODEL RSU 800-2	
APPROVALS	DATE	SIZE	CAGE CODE
DRAWN R. KHARE	021197	B	47876
CHECKED		DWG. NO.	50222
ISSUED		REV.	A
SCALE 1/1		SHEET 1 OF 1	