

HAZARDOUS AREA

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

PRESSURE TRANSMITTER
PXMS SERIES



TRANSMITTER ENTITY
PARAMETERS

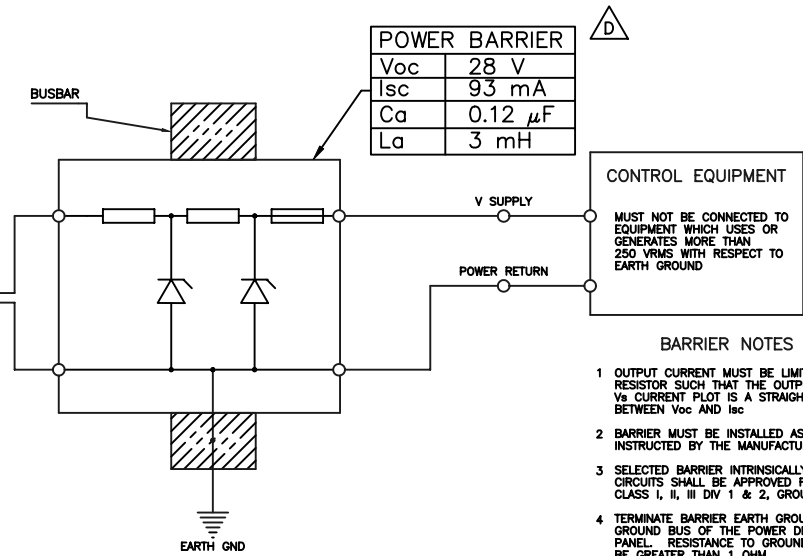
TERMINALS	VMAX	IMAX	CI	LI
POS - NEG	28 V	93 mA	0.11 μ F	0.22 mH

$V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$

USE THE FOLLOWING PARAMETERS IF CABLE
PARAMETERS ARE UNKNOWN.
CABLE CAPACITANCE: 60 pF/ft
(EX. $C_{cable} = 1000ft \times 60pF/ft = 0.06\mu F$)
CABLE INDUCTANCE: 0.2 μ H/ft
(EX. $L_{cable} = 1000ft \times 0.2\mu H/ft = 0.2mH$)

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

SAFE AREA



POWER BARRIER	
Voc	28 V
Isc	93 mA
Ca	0.12 μ F
La	3 mH



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 V_o CURRENT PLOT IS A STRAIGHT LINE BETWEEN V_{oc} AND I_{sc}
- 2 BARRIER MUST BE INSTALLED AS INSTRUCTED BY THE MANUFACTURER
- 3 SELECTED BARRIER INTRINSICALLY SAFE CIRCUITS SHALL BE APPROVED FOR CLASS I, II, III DIV 1 & 2, GROUPS A-G
- 4 TERMINATE BARRIER EARTH GROUND TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL. RESISTANCE TO GROUND MUST NOT BE GREATER THAN 1 OHM

D	ADD POWER BARRIER TABLE. REV FROM PXM TO PXMS.
	06/04/99 CB ER#99-0564 CB
REV.	CHANGES MADE
DRAWN BY:	MLM E.R.NO. 95-0142
DATE:	2/6/95
CHKD. BY:	RJ
APPD. BY:	DR
MODEL:	PXMS INSTALLATION DIAGRAM
DRAWING NO.	05-08-0006
SIZE	B
REV.	D

