

**DO NOT SCALE DRAWING****TOLERANCES
(UNLESS NOTED)**

DECIMALS = ±1/100mm
 X = ±1 / 2.50
 XX = ±03 / 0.78
 XXX = ±010 / 0.25
 HOLES = ±0030 / 0.08
 ANGLES = ±30'

DRAWN	A.B.	12/90
CHECKED		
ENGINEER	A.B.	12/90
SCALE		

CATEGORY
 SYS. BLOCK/WIRE DIAGRAM

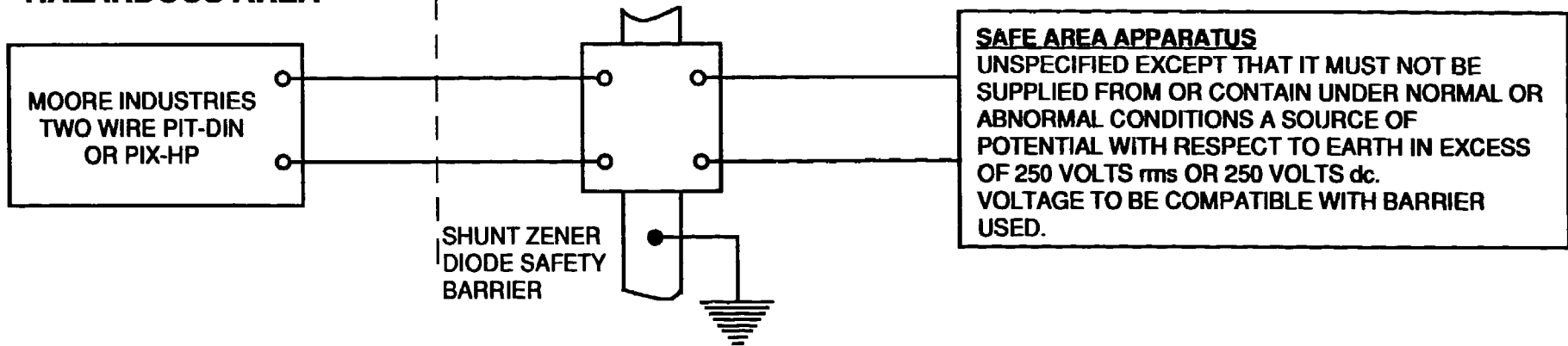
TITLE
**I.S. INTERCONNECT
 DIAGRAM.
 PIT-ISF[DIN]/PIX-ISF[HP]**

DRAWING NUMBER
100-100-20

REVISION
A

REVISED BY INITIAL RELEASE	DATE 7/91	BY JAD	APPROVAL CRB
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HAZARDOUS AREA**SAFE AREA****CERTIFICATION:**

FACTORY MUTUAL RESEARCH
 MODEL: PIT-DIN OR PIX-HP
 INTRINSICALLY SAFE Class I, Division 1, Groups. A, B, C and D.
 NONINCENDIVE Class I, Division 2, Groups. A, B, C, and D, T4.
 Entity Rating:
 $V_{max} = 30V$, $I_{max} = 110mA$, $C_i = 0.03\mu F$, $L_i = 0.9\mu H$. Max. Amb. = 65°C.

IMPORTANT

MAKE NO CHANGES TO THIS
 DRAWING WITHOUT APPROVAL OF
 INTRINSIC SAFETY CONTR. OFFICER.

NOTES:

- 1.- The loops must be connected according to the barrier manufacturer's instructions.
- 2.- See ANSI/ISA RP12.6 for guidance on installation.
- 3.- Barrier parameters must meet the following parameters:
 V_{oc} or $V_t \leq 30V_{dc}$, I_{sc} or $I_t \leq 110mA$, $C_a > 0.03\mu F$, $L_a > 0.9\mu H$
- 4.- The allowable parameters for the barrier must be greater than the sum of the connecting cable parameters and internal parameters of model PIT-DIN or PIX-HP, pressure transmitters.
- 5.- Maximum safe area voltage should not exceed 250Vrms or 250Vdc.
- 6.- Shunt zener diode safety barrier is not required for NONINCENDIVE applications.