



**DO NOT SCALE DRAWING**

**TOLERANCES**  
(UNLESS NOTED)  
DIMENSIONS - in/mm  
X = ± 0.50  
XX = ± 0.75  
XXX = ± 1.00  
HOLES = ± 0.030  
ANGLES = ± 30

DRAWN: JAD 10/91  
CHECKED:  
ENGINEER:  
SCALE:

CATEGORY: SYS. BLOCK/WIRE DIAGRAM

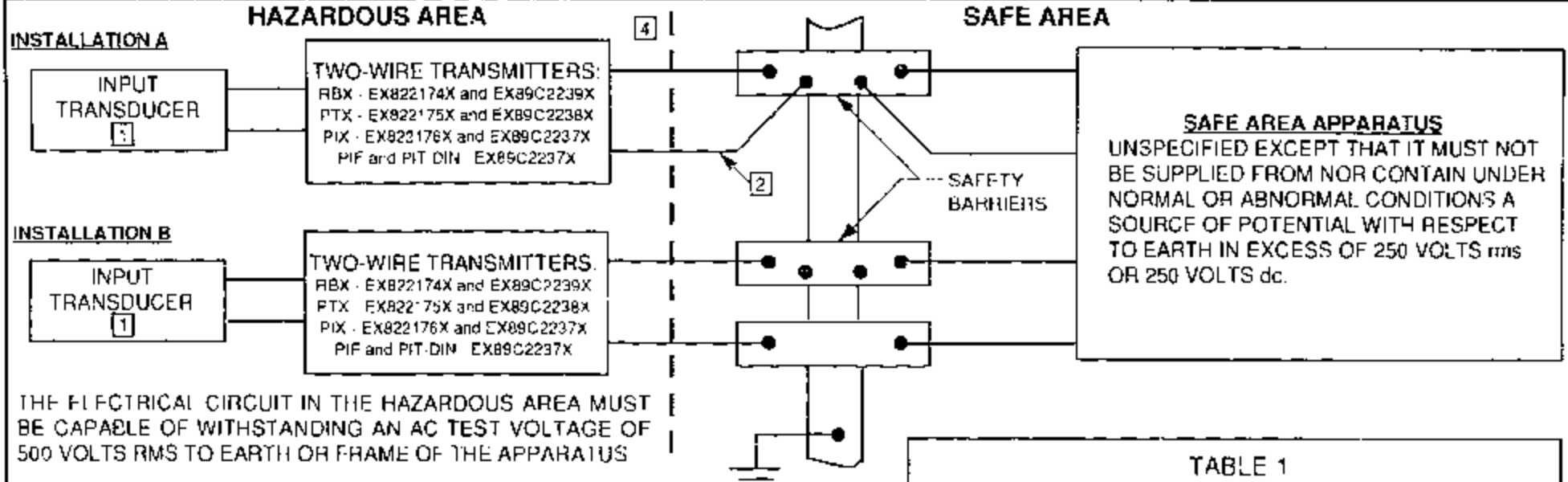
TITLE: **INSTALLATION DIAGRAM,  
BASEEFA I.S. 2-WIRE  
TRANSMITTERS,  
PIT-DIN, PIX, PIF, RBX, PTX**

DRAWING NUMBER: **100-100-03**

REVISION: **A**

REVISED BY: INITIAL RELEASE  
DATE: 7/92  
BY: JAD  
APPROVAL: CJP

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THE ELECTRICAL CIRCUIT IN THE HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING AN AC TEST VOLTAGE OF 500 VOLTS RMS TO EARTH OR FRAME OF THE APPARATUS

**CERTIFIED PRODUCT**  
NO MODIFICATIONS PERMITTED  
WITHOUT NOTIFICATION OF  
THE CERTIFYING AGENCIES.

**TABLE 1**

GROUP	MAXIMUM CAPACITANCE	MAXIMUM INDUCTANCE	or INDUCTANCE TO RESISTANCE RATIO
IIC	0.08UF	900UH	35UH/Ohm
IIB	0.34UF	2700UH	105UH/Ohm
IIA	1.00UF	7200UH	280UH/Ohm

**NOTES:**

- [1] INPUT TRANSDUCER meeting the requirements of 'APPARATUS' as defined in EN50 014, clause 1.3 and installed to meet requirements of EN50 020, clause 5.  
INSTALLATION A: Any 27Volt, 270 Ohm or 28Volt, 300 Ohm Shunt Zener Diode Safety Barrier, certified by BASEEFA or by any EEC Approved body to [EEEx ia] IIC, whose output parameters do not exceed  $U_z = 27V$ ,  $I_{max. out} = 100mA$ ,  $W_{max. out} = 0.68W$ , or  $U_z = 28V$ ,  $I_{max. out} = 93mA$ ,  $W_{max. out} = 0.67W$ .  
INSTALLATION B: Any 27Volt, 270 Ohm or 28Volt, 300 Ohm Shunt Zener Diode Safety Barrier together with any 10Volt, 47 Ohm Shunt Zener Diode Safety Barrier connected as a floating system with no earth return. The Barriers must be of like polarity and be certified by BASEEFA or by any EEC Approved body to [EEEx ia] IIC, whose output parameters do not exceed  $U_z = 10V$ ,  $I_{max. out} = 213mA$ ,  $W_{max. out} = 0.53W$ .  
NOTE: In any Safety Barrier used the output current must be limited by a resistor 'R' such that  $I_{max. out} = U_z/R$
- [2] Cable parameters must not exceed those given in TABLE 1.
- [3] The installation must comply with NATIONAL installation requirements (e.g. in the U.K. BS5345 Part 4: 1977).
- [4] System label, 200-251-1384 should appear on or adjacent to the principal item of electrical apparatus in the system or at the interface between I.S. & non I.S. circuits.