

APPROVAL  
OR  
SENDER

Factory Mutual System

JIC  
S/W

Additional forms may be requested by writing to the attention of the Factory Mutual Stockroom.  
Ship Code.

FORWARD TO:  
FACTORY MUTUAL RESEARCH  
1151 Boston-Providence Turnpike  
P.O. Box 9102  
Norwood MA 02062  
Attention: Robert Menot

MOORE INDUSTRIES, INC.  
16650 Schoenborn Street  
Sepulveda, CA 91343

Date: April 8, 1991

FORWARDED BY: L. C. Lancto

TITLE: O/A Manager

SIGNATURE:

MODEL(S) AFFECTED: PTX, RBX

INDICATE FACTORY MUTUAL JOB IDENTIFICATION(S) AFFECTED: 1COA1.AX

PRODUCT(S): Resistance Transmitters

IS A FACTORY MUTUAL LISTED MODEL/TYPE NO. REVISED BY THIS CHANGE? IF YES, EXPLAIN (USE SEPARATE SHEET IF REQUIRED):  YES  NO

HAS THE MANUFACTURING LOCATION, LISTING ADDRESS, TELEPHONE NUMBER OR CONTACT PERSON CHANGED? IF YES, EXPLAIN BELOW:  YES  NO

DWG NO. AFFECTED: NEW DWG. NO.

REVISION DETAILS

The documentation files and test notebooks for the subject equipment were examined and all requirements of Factory Mutual Research Corporation Approval Standard Class Number 3610 (October 1988), effective date January 1, 1992, are currently being met.

A minimum comparative tracking index specifications of 90 is specified for all printed circuit boards. The sensor field wire terminations have been determined to be intrinsically safe with faults applied. Properly constructed and identified protective ground terminals are provided on both instruments.

On 100% of production, the manufacturer shall conduct routine dielectric tests. The units shall withstand for one minute, with no insulation breakdown, the application of 500 Vrms or 707 Vdc with respect to the protective ground terminal. Alternatively, tests potentials of 600 Vrms or 860 Vdc may be applied for at least one second.

The updated documentation list for the subject equipment is attached on page 2.

REASON FOR CHANGE(S)/COMMENTS:

MOORE INDUSTRIES, INC. Model PTX and RBX Resistance Transmitters continue to meet Factory Mutual Research Corporation Approval requirements. Models PIT and PIX Pressure Transmitters originally Approved as part of J.I. 1COA1.AX are separately re-examined as part of J.I. OROH7.AX.

(page 1 of 2)

BELOW FOR FACTORY MUTUAL USE

COMMENTS: No additional testing required.

REVISION RPT. J.I. OT1H5.AX	REVISION NOTICE NO.	CLASS NO. 3610
FORWARD APPROVAL AGREEMENT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
REVISION ACCEPTED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
EXAMINED BY <i>[Signature]</i>	DATE 4/8/91	
REVIEWED BY <i>[Signature]</i>	DATE 4-8-91	

TIC CLK  
3610

JUL 25 1980

TRANSMITTERS MODELS PIX, PIT, PTX and RBX  
INTRINSICALLY SAFE  
FOR CLASS I, DIVISION 1 HAZARDOUS LOCATIONS  
(WHEN USED WITH SPECIFIC ASSOCIATED APPARATUS)  
AND  
NONINCENDIVE  
FOR CLASS I, DIVISION 2, GROUPS A, B, C AND D  
HAZARDOUS LOCATIONS

from

MOORE INDUSTRIES, INCORPORATED  
SEPULVEDA, CALIFORNIA

J.I. 1C0A1.AX  
(3610)

JULY 10, 1980



**Factory Mutual Research**

1151 Boston-Providence Turnpike  
Norwood, Massachusetts 02062



# Factory Mutual Research

1151 Boston-Providence Turnpike  
Norwood, Massachusetts 02062

July 10, 1980

1COA1.AX  
(3610)

TRANSMITTERS MODELS PIX, PIT, PTX and RBX  
INTRINSICALLY SAFE  
FOR CLASS I, DIVISION 1 HAZARDOUS LOCATIONS  
(WHEN USED WITH SPECIFIC ASSOCIATED APPARATUS)  
AND  
NONINCENDIVE  
FOR CLASS I, DIVISION 2, GROUPS A, B, C AND D  
HAZARDOUS LOCATIONS

from

MOORE INDUSTRIES, INCORPORATED  
SEPULVEDA, CALIFORNIA

## I INTRODUCTION

1.1 Moore Industries Incorporated requested approval of the equipment listed in Section 1.2.

1.2 The following apparatus is nonincendive for Class I, Division 2, Groups A, B, C and D and is intrinsically safe for Class I, Division 1, Applicable Group, dependent on connection to specific associated apparatus installed according to Drawing No. 100-100-01, Revision PD2.

Potentiometer Transmitter Model PTX  
Pressure/Current Transmitters Models PIX, PIT  
Resistance Bulb Transmitter Model RBX

## II DESCRIPTION

2.1 The Pressure to Current Transmitters Models PIX and PIT are electrically identical differing only in the mechanical housing construction. Model PIX is provided in a cast aluminum housing. Model PIT is enclosed in a thermoplastic housing secured to a metal mounting bracket. The transducer and all other solid-state signal conditioning circuitry are mounted on a single printed wiring board. In both cases, housing is provided with two screw-type terminals for connection of a nominal 24 V approved barrier output. These transmitters act as a variable load drawing a current from 4 to 20 milliamperes dc which is proportional to the pneumatic process signal. Multiturn zero and span adjustments are accessible from the front of each model for ease in calibration which may be accomplished with the unit connected to the pressure source in the field.

Page 2

2.2 The mechanical assemblies of the resistance transmitters are identical to Model PIX. The electrical circuitry differs as Model PTX accepts a slide wire potentiometer input and Model RBX accepts a RTD input. These transmitters are designed to convert varying resistance to a proportional standard process current.

2.3 The protective assemblies listed on the Interconnect diagram form the main protective elements from an intrinsic safety standpoint between the hazardous and nonhazardous location equipment. These barriers and interfacing modules have previously been examined and approved for their respective manufacturers.

### III EXAMINATION AND TEST

3.1 Representative samples of the apparatus were examined and tested by Factory Mutual to determine the acceptability for use in the specified hazardous locations. The examination included circuit analysis, component tests, and ignition tests, as well as a review of the manufacturer's documentation and the physical construction. All were satisfactory and are summarized in the following sections.

3.2 This examination also included an analysis of the manufacturer's schematics and circuits for components capable of releasing critical energy levels under specified conditions, when connected to the associated apparatus per the manufacturer's instructions. No ignition testing was required as the transmitters do not contain any significant energy storing components at the corresponding output voltage and current levels of the safety barriers. With all capacitors connected in parallel across the input (applying gross fault conditions), the comparison method demonstrates the energy levels remain intrinsically safe.

3.3 To determine the acceptability of the units herein outlined for non-incendive applications, make-break components, namely zero and span and potentiometers, were examined. These components are used in non-incendive circuits.

3.4 The circuitry was checked for components whose surface temperature could cause auto-ignition during normal conditions with a 42 VDC input and fault conditions with the maximum input from a barrier. No components were capable of producing temperatures exceeding 100°C. No temperature markings are required.

### IV MARKING INFORMATION

4.1 An aluminum nameplate secured to the upper housing by two screws contains the following information:

1COA1.AX

- a. The manufacturer's name and address.
- b. The model number and serial number.
- c. The Factory Mutual approval mark.
- d. The words: "Intrinsically safe for Class I, Division 1 hazardous locations when used with approved barriers, as listed on Drawing 100-100-01 for manufacturers and model numbers of approved barriers suitable for use with this unit." and "Nonincendive for Class I, Division 2, Groups A, B, C and D hazardous locations".

4.2 The following legend is located either directly on the enclosure or in the accompanying literature, "Warning - substitution of components may impair intrinsic safety".

#### V REMARKS

5.1 Installation of equipment must be as detailed in the Drawing No. 100-100-01 Rev. PD-2. All field wiring must be installed in accordance with the National Electrical Code (NEC, NFPA-70).

5.1.1 For Division 2 applications all wiring methods shall comply with Article 501-4 of the NEC.

5.2 Failure to observe applicable installation procedures, servicing or maintenance by unqualified personnel and/or substitution of original components with nonfactory sources may adversely affect the intrinsic safety of the units.

5.3 Nonhazardous location equipment adjacent to or associated with the listed intrinsic safety barriers shall not employ or generate in excess of 250 Vrms (360 V peak).

5.4 The transmitters and barrier devices described herein were evaluated as a system for intrinsically safe applications.

5.4.1 Employing an approved barrier or interfacing modules not shown on the Interconnect Diagrams herein voids the intrinsic safety of the entire system.

5.4.2 The system is acceptable for use in only those specific groups for which the particular listed intrinsic safety barrier or interfacing module was previously approved.

## VI CONCLUSION

The transmitters listed herein meet Factory Mutual requirements as non-incendive for Class I, Division 2 and intrinsically safe for Class I, Division 1 hazardous locations as specified. Approval is effective when the Approval Agreement is signed and returned to Factory Mutual.

EXAMINATION AND TESTS BY:

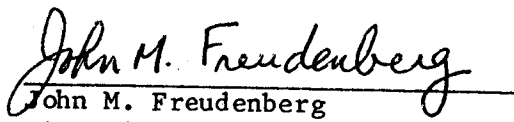
John M. Freudenberg


ATTACHED:

Manufacturer's I.S. Interconnect Diagrams  
Drawing No. 100-100-01, Rev. PD-2  
Documentation List

REPORT WRITTEN BY:

REVIEWED BY:

  
John M. Freudenberg  
Electrical Engineer  
Instrumentation Section

  
R. H. Lelievre  
Assistant Section Manager  
Instrumentation Section

JMF/mi

## DOCUMENTATION LIST

The following documentation is applicable to this examination and is on file at Factory Mutual. Prior Factory Mutual approval is required before implementing any change affecting these documents.

<u>Drawing No.</u>	<u>Rev.</u>	<u>Description</u>
<u>All Models</u>		
100-100-01	PD2	Intrinsically safe Interconnect Diagrams
<u>Model PIT</u>		
200-251-370	PD1	Label Art
200-251-369	PD1	Label Art
218-803-00	D1	PC1, List of Materials
218-201-00	D	RP Case, Assembly
218-403-00	D	Schematic
218-503-00	D	PC Assembly
200-801-02	E1	RP Case, List of Materials
130-404-00	B	Schematic-FM Manual
218-703-00	B	PIT/PIX Instruction Manual
<u>Model PIX</u>		
200-251-365	PD1	Label Art
123-801-00	C1	PC1, List of Materials
201-207-00	C	TW Case, Assembly
123-401-00	C	Schematic
123-501-00	C	PC Transducer Assembly
201-807-00	C1	TW Case, List of Materials
130-403-00	B	Schematic-FM Manual
218-703-00	B	PIT/PIX Instruction Manual
123-803-00	A1	PC2, List of Materials
123-803-00	A2	PC2-RF, List of Materials
<u>Model PTX</u>		
200-251-366	PD1	Label Art
150-804-00	E1	PC1, List of Materials
150-806-00	A1	PC2, List of Materials
150-807-00	A2	PC2-RF, List of Materials
150-404-00	E	Schematic
150-504-00	E	PC Assembly
200-813-01	F1	TW Case, List of Materials
130-402-00	B	Schematic-FM Manual
200-213-00	F	TW Case, Assembly
150-704-00	B	Instruction Manual

DOCUMENTATION LIST (cont.)

Model RBX

200-251-368  
 200-251-367  
 149-811-00  
 149-813-00  
 149-812-00  
 200-813-01  
 149-411-00  
 149-511-00  
 200-213-00  
 130-405-00  
 149-702-00

PD1  
 PD1  
 D1  
 B3  
 B2  
 F1  
 D  
 D  
 F  
 B  
 C

Label Art  
 Label Art  
 PC1, List of Materials  
 PC2-RF, List of Materials  
 PC2, List of Materials  
 TW Case, List of Materials  
 Schematic  
 PC Assembly  
 TW Case, Assembly  
 Schematic-FM Manual  
 Instruction Manual

A1.AX

INTRINSICALLY SAFE SYSTEM BARRIER & APPLICATION	REV	DESCRIPTION	DATE	BY	APPR
	PD-2	PRELIMINARY RELEASE	4/23/80		<i>MR</i>

1.0 INSTALLATION

- 1.1 Barriers shall be located in a non-hazardous area and be mounted in an enclosure or protected space.
- 1.2 Installation shall be in accordance with Moore Industries drawing 100-100-01 interconnect diagram.
- 1.3 Ground shall be true earth ground in accordance with Article 250 N.E.C. The barrier shall be grounded with two independent connections to a ground electrode in the non-hazardous area. Resistance of ground conductor shall not exceed 1 OHM.
- 1.4 If barrier is located in DIV. 2 area, all wiring rules from Article 501-4 N.E.C. are applicable.


2.0 NON-HAZARDOUS AREA

- 2.1 Equipment directly or indirectly connected to barrier shall have no voltage exceeding 250 VRMS or DC.
- 2.2 All equipment per 2.1 shall be isolated from the supply mains by an isolating (double-wound) transformer conforming to the N.E.C.
- 2.3 All secondary wiring to the barrier shall conform to Class I wiring in accordance with Article 725 N.E.C.

3.0 HAZARDOUS AREA

- 3.1 Wiring connected to the hazardous area terminals of the barrier shall be separated from non-intrinsically safe wiring.
- 3.2 Different intrinsically safe systems wiring shall not be contained in the same cable.
- 3.3 Different intrinsically safe circuits of the same intrinsically safe system shall not be contained in the same cable unless at least 0.25mm thick insulation is used on each conductor or unless no hazard results from interconnection.
- 3.4 The distributed inductance and capacitance of wiring shall not exceed maximum allowable for cable parameters of particular barrier used. If cable parameters are not known values of 60 PF/ft and 0.2 uH/ft may be used as conservative criteria for cable.

NOTES: UNLESS OTHERWISE SPECIFIED

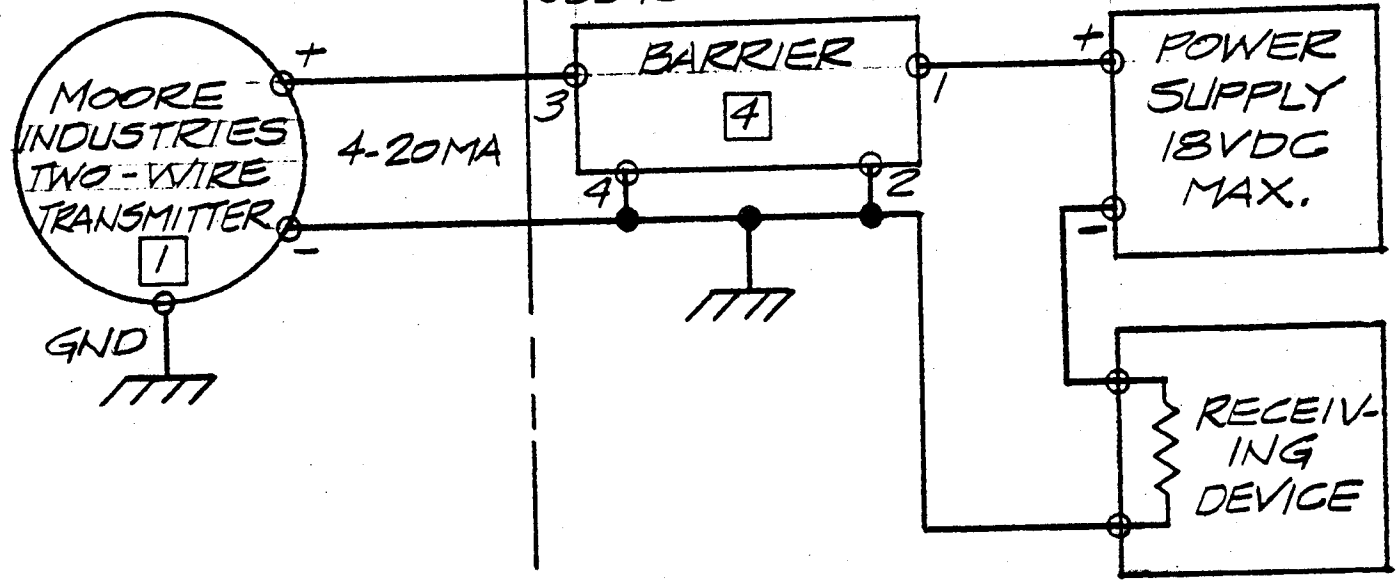
TOLS UNLESS NOTED: .X = ±.10 .XX = ±.030 .XXX = ±.010 ANGLES = ± 30° HOLES = +.002 - .001	DRAWN		 <b>MOORE INDUSTRIES INC.</b> SEPULVEDA ■ CALIF.
	CHECKED		
<b>DO NOT SCALE DRAWING</b>  SCALE:	PROJ. ENGR.	<i>70 Reynolds</i> <i>4/23/80</i>	INTRINSICALLY SAFE INTERCONNECT DIAGRAMS
	CUSTOMER		DWG. NO. 100-100-01
			REV PD2

REV	DESCRIPTION	DATE	BY	APPR
	SEE PAGE 1			

HAZARDOUS AREA  
CLASS I DIV. I  
GROUPS A, B, C, D.

NON-HAZARDOUS AREA

22.4/157  
HONEYWELL  
38545-0000-0110-113-F5B5



- 4. 170 OHMS NOM. RES.
- 3. REF. HONEYWELL BULL. 5385-22 FOR ADDITIONAL DETAIL.
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 130 OHMS AT 18VDC SUPPLY VOLTAGE.
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:

.X	= ±.10
.XX	= ±.030
.XXX	= ±.010
ANGLES	= ± 30°
HOLES	= +.002 - .001

DRAWN	J.A. DURR	4/23/80
CHECKED		
PROJ. ENGR.		
CUSTOMER		

**MOORE INDUSTRIES INC.**  
SEPULVEDA CALIF.

**INTRINSICALLY SAFE  
INTERCONNECT DIAGRAM**  
HONEYWELL

DWG. NO. 100-100-01

REV. PD2

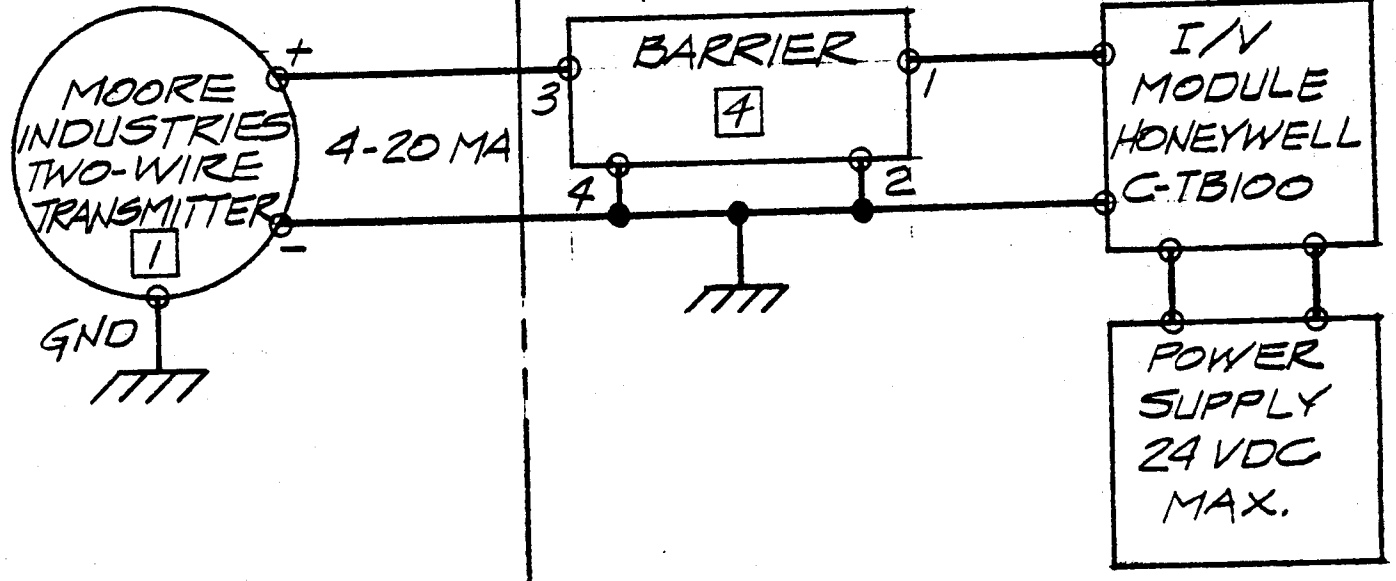
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REV	DESCRIPTION	DATE	BY	APPR
	SEE PAGE 1			

HAZARDOUS AREA  
CLASS I DIV. I  
GROUPS A, B, C, D

NON-HAZARDOUS AREA

22.4/157  
HONEYWELL  
38545-0000-0110-113-F5B5



- 4. 170 OHMS NOM. RES.
- 3. REF. HONEYWELL BULL. 5385-22 FOR ADDITIONAL DETAIL.
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 275 OHMS AT 24VDC SUPPLY VOLTAGE.
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:

.X	:	±.10
.XX	:	±.030
.XXX	:	±.010
ANGLES	:	± 30°
HOLES	:	+ .002 - .001

DRAWN	J.A. DURR	4/23/90
CHECKED		
PROJ. ENGR.		
CUSTMR.		

**MOORE INDUSTRIES INC.**  
SEPULVEDA ■ CALIF.

**INTRINSICALLY SAFE  
INTERCONNECT DIAGRAM**  
HONEYWELL

DWG. NO. 100-100-01

REV. PD2

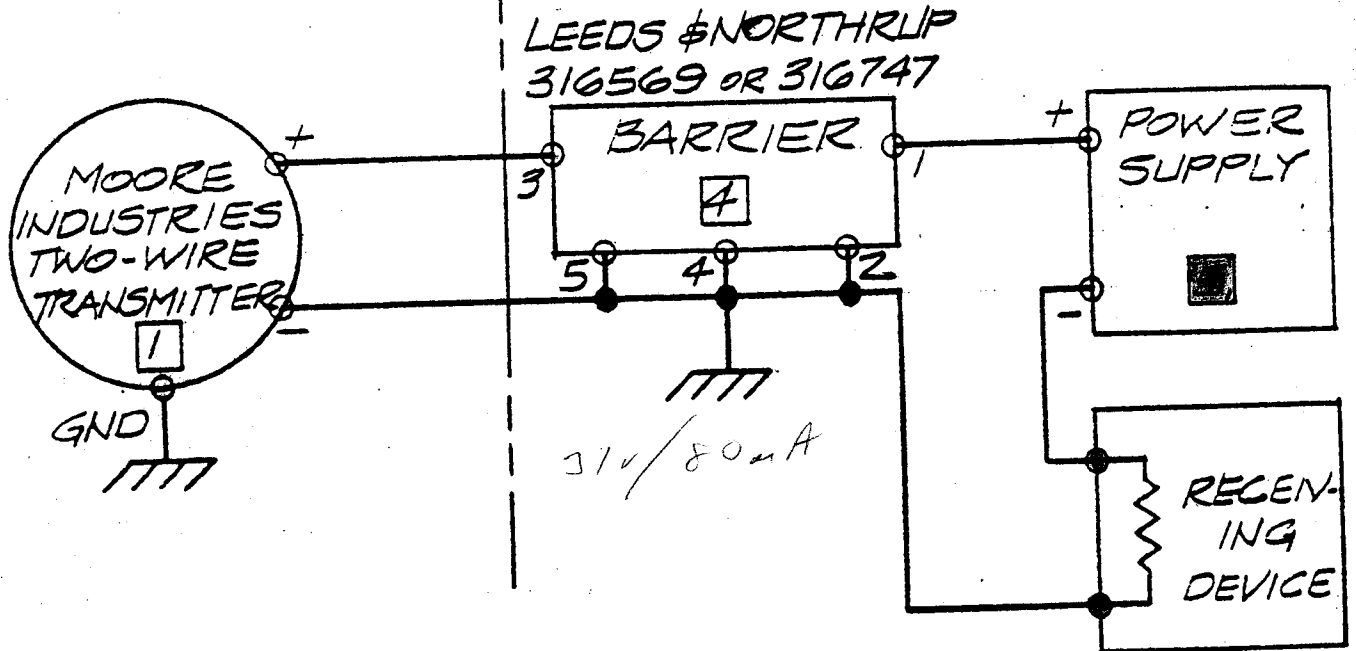
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REV	DESCRIPTION	DATE	BY	APPR
	SEE PAGE 1			

HAZARDOUS AREA  
CLASS I DIV. I  
GROUPS A, B, C, D

NON-HAZARDOUS AREA



5. POWER SUPPLY POLARITIES ARE FOR 316569 (POSITIVE), BARRIER POLARITIES TO BE REVERSED FOR 316747 (NEGATIVE) BARRIER.
4. 95 OHMS NOM. RES.
3. REF. TO L & N BULLETIN # 177849 FOR ADDITIONAL DETAIL
2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 502 OHMS AT 24VDC SUPPLY VOLTAGE.
1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX.

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:	
.X	: ±.10
.XX	: ±.030
.XXX	: ±.010
ANGLES	: ± 30°
HOLES	: +.002 - .001
DO NOT SCALE DRAWING	
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DRAWN	J.A. DURR	4/23/80
CHECKED		
PROJ. ENGR.		
CUSTOMER		

**MOORE INDUSTRIES INC.**  
SEPULVEDA CALIF.

INTRINSICALLY SAFE  
INTERCONNECT DIAGRAM  
LEEDS & NORTHRUP 316569 & 316747

DWG. NO. 100-100-01

REV. PD2

PAGE 1 OF 2

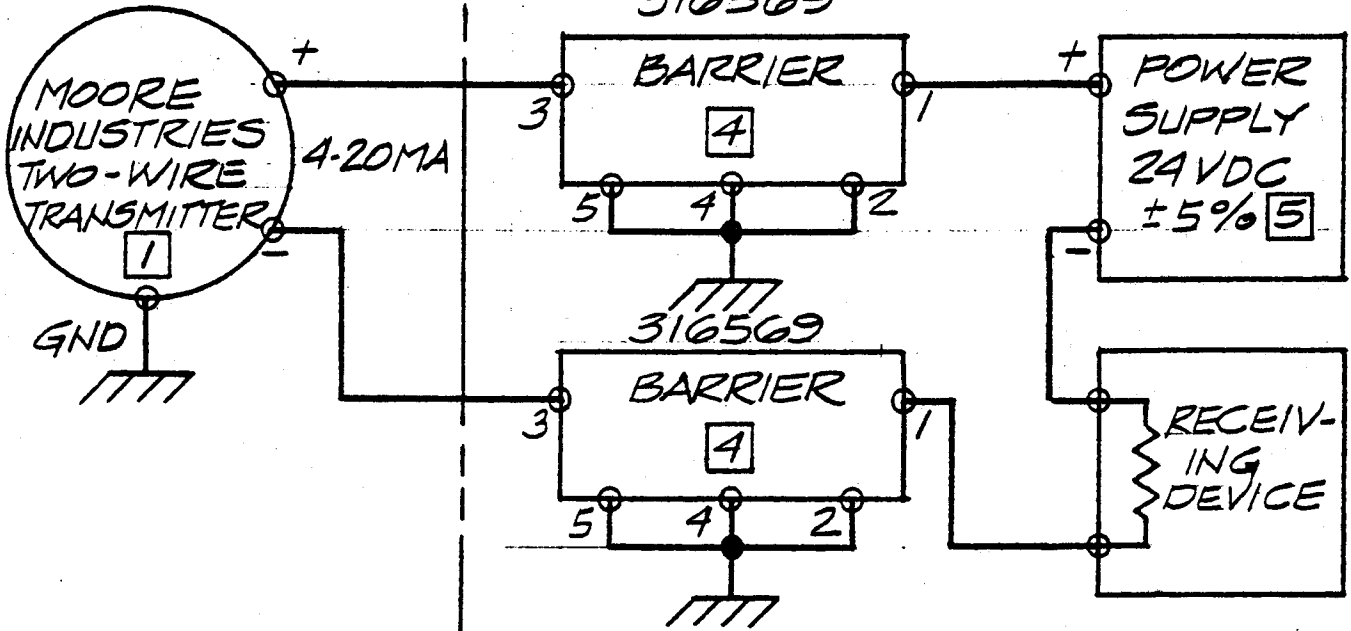
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HAZARDOUS AREA  
 CLASS I DIV. I  
 GROUPS A, B, C, D

NON-HAZARDOUS AREA

31/80

LEEDS & NORTHRUP  
 316569



- 0. UNGROUNDED CIRCUIT MUST HAVE TWO BARRIERS OF SAME POLARITY. (POS. OR NEG.)
- 5. POWER SUPPLY POLARITIES ARE FOR 316569 (POSITIVE) BARRIER. POLARITIES TO BE REVERSED FOR 316747 (NEGATIVE) BARRIER.
- 4. 95 OHMS NOM. RES.
- 3. REFER TO L&N BULLETIN #177849 FOR ADDED DETAIL.
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 410 OHMS AT 24 VDC SUPPLY VOLTAGE
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:  
 .X = ±.10  
 .XX = ±.030  
 .XXX = ±.010  
 ANGLES = ± 30°  
 HOLES = +.002 - .001

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PROJ. ENGR.		
CUSTOMR.		

MOORE INDUSTRIES INC. SEPULVEDA ■ CALIF.	
INTRINSICALLY SAFE INTERCONNECT DIAGRAM LEEDS & NORTHRUP 316569 & 316747	
DWG. NO.	100-100-01
REV.	PP2

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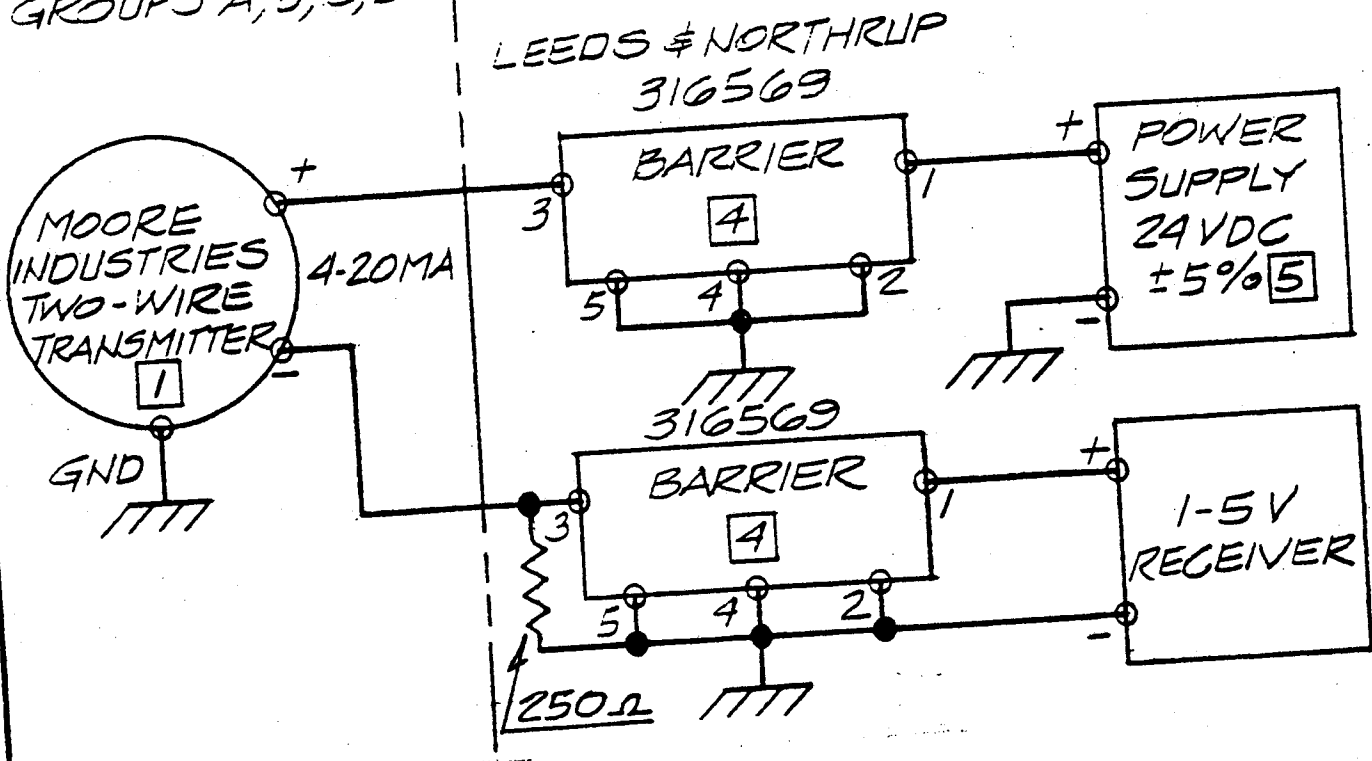
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1/47  
 REV. PD2

REV	DESCRIPTION	DATE	BY	APPR
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HAZARDOUS AREA  
 CLASS I DIV. I  
 GROUPS A, B, C, D

NON-HAZARDOUS AREA



- 6. UNGROUNDED CIRCUIT MUST HAVE TWO BARRIERS OF SAME POLARITY. (POS. OR NEG.)
- 5. POWER SUPPLY POLARITIES ARE FOR 316569 (POSITIVE) BARRIER. POLARITIES TO BE REVERSED FOR 316747 (NEGATIVE) BARRIER.
- 4. 95 OHMS NOM. RES.
- 3. REFER TO L&T BULLETIN #177849 FOR ADDED DETAIL.
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 255 OHMS AT 24VDC SUPPLY VOLTAGE
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:

.X	: ±.10
.XX	: ±.030
.XXX	: ±.010
ANGLES	: ± 30°
HOLES	: +.002 - .001

DRAWN	J.A. DURR	4/23/80
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PROJ. ENGR.		

**MOORE INDUSTRIES INC.**  
 SEPULVEDA CALIF.

**INTRINSICALLY SAFE**  
**INTERCONNECT DIAGRAM**  
 LEEDS & NORTHRUP 316569 & 316747

DWG. NO.  
 100-100-01

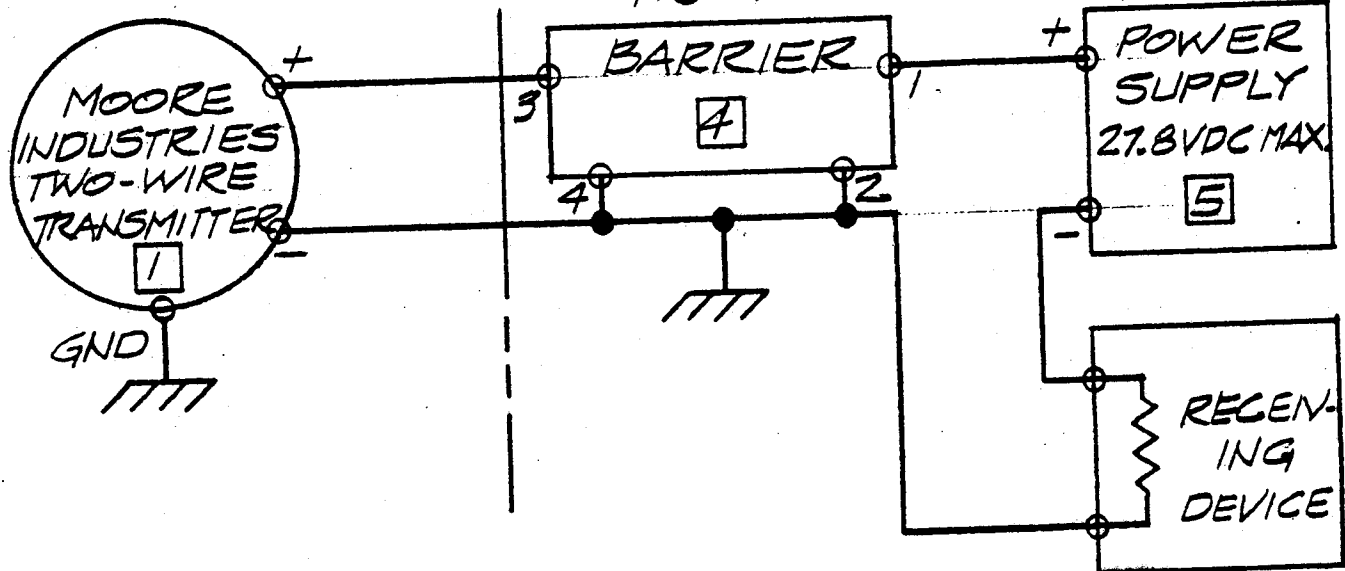
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HAZARDOUS AREA CLASS I DIV. I GROUPS C, D

NON-HAZARDOUS AREA

35/73  
TAYLOR INST.  
1130F



- 5 POWER SUPPLY POLARITIES ARE FOR POSITIVE BARRIER. POLARITIES TO BE REVERSED FOR NEGATIVE BARRIER
- 4 MAX. EFFECTIVE SERIES IMPEDANCE = 240 OHMS
- 3. REF. TAYLOR BULL. 1B17E211 & 1B17E212 FOR ADDITIONAL DETAIL
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 360 OHMS AT 24VDC SUPPLY VOLTAGE.
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX.

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED:

.X	: ±.10
.XX	: ±.030
.XXX	: ±.010
ANGLES	: ± 30°
HOLES	: +.002 - .001

DRAWN	J.A. DURR	4/23/80
CHECKED		
PROJ. ENGR.		
CUSTOMER		

**MOORE INDUSTRIES INC.**  
SEPULVEDA CALIF.

**INTRINSICALLY SAFE INTERCONNECT DIAGRAM**  
TAYLOR INST. 1130F

DWG. NO. 100-100-01

REV. PD2

DO NOT SCALE DRAWING

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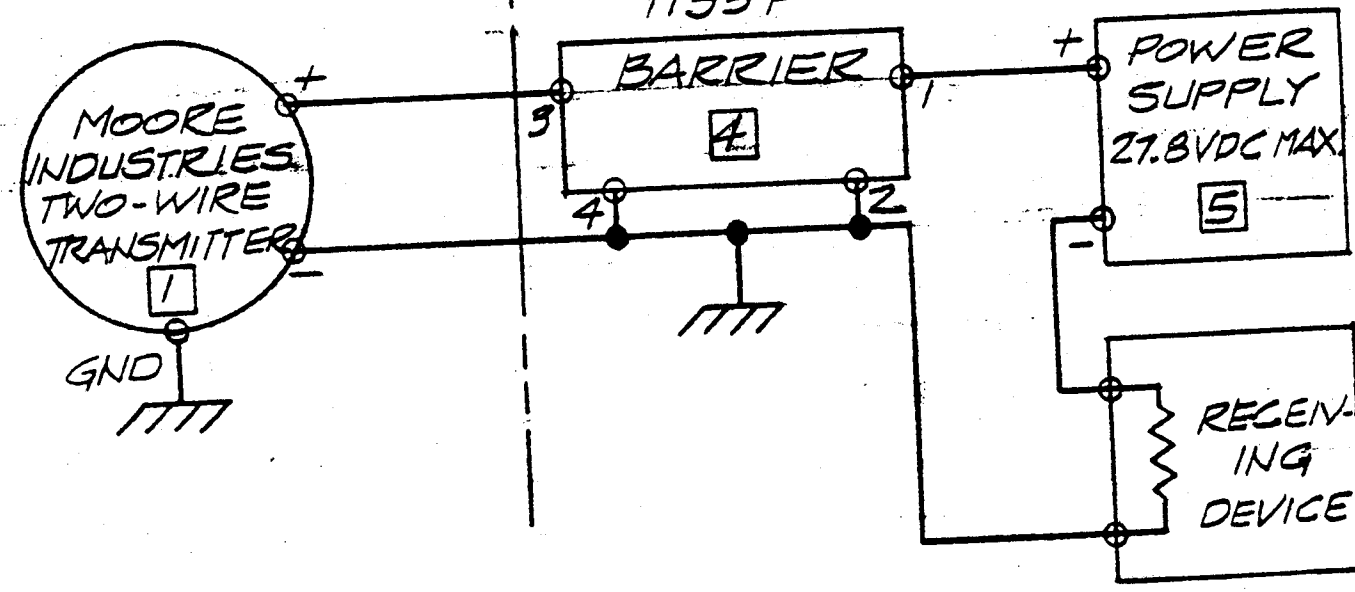
17  
REV.  
PD2

REV	DESCRIPTION	DATE	BY	APP
	SEE PAGE 1			

HAZARDOUS AREA  
CLASS I DIV. I  
GROUPS C, D

NON-HAZARDOUS AREA

39/149  
TAYLOR INST.  
1135 F



- 5 POWER SUPPLY POLARITIES ARE FOR POSITIVE BARRIER. POLARITIES TO BE REVERSED FOR NEGATIVE BARRIER
- 4. MAX. EFFECTIVE SERIES IMPEDANCE = 294 OHMS
- 3. REF. TAYLOR BULL. 1B17E211 & 1B17E212 FOR ADDITIONAL DE
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 306 OHMS AT 24VDC SUPPLY VOLTAGE.
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX.

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED: .X = ±.10 .XX = ±.030 .XXX = ±.010 ANGLES = ± 30° HOLES = +.002 - .001  DO NOT SCALE DRAWING  SCALE:	DRAWN	J.A. DURR	4/23/80
	CHECKED		
	PROJ. ENGR.		
	CUSTOMER		

**MOORE INDUSTRIES INC.**  
SEPULVEDA CALIF.

**INTRINSICALLY SAFE INTERCONNECT DIAGRAM**  
TAYLOR INST. 1135 F

DWG. NO.  
100-100-01

PAGE 8 OF 9

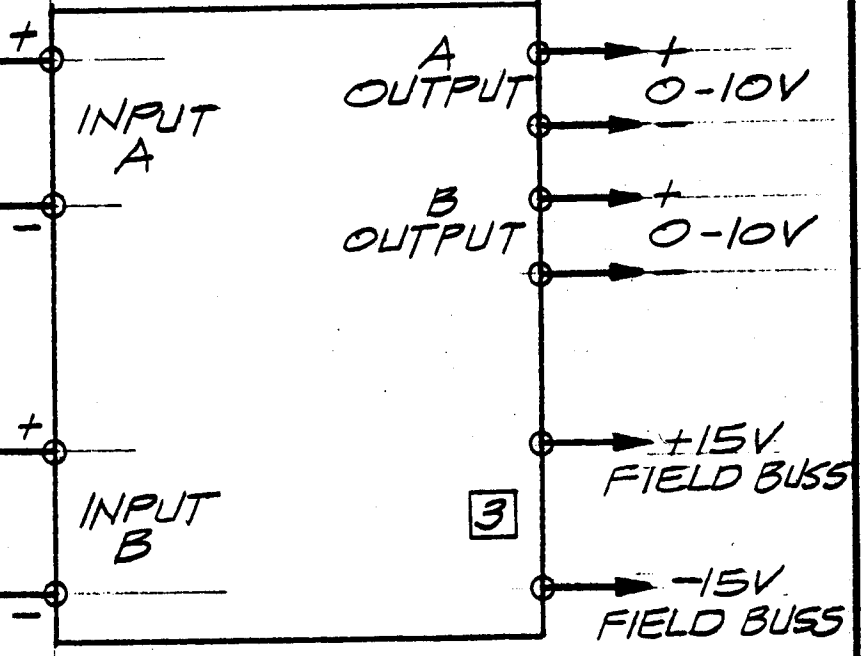
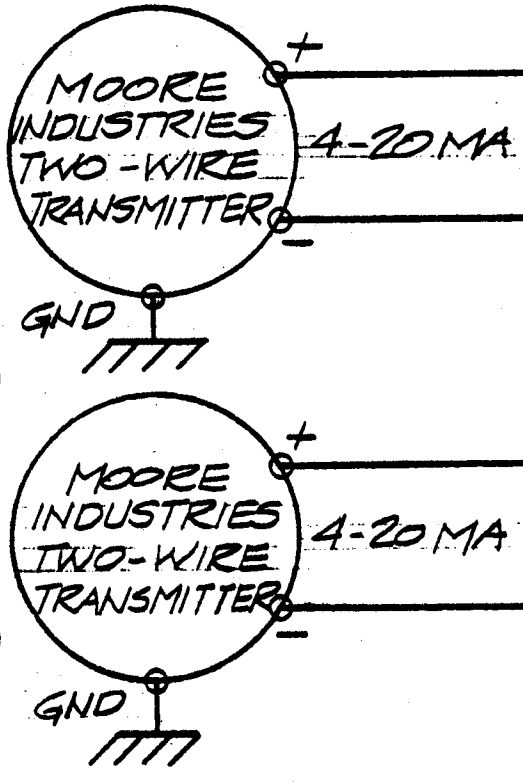
REV	DESCRIPTION	DATE	BY	APPR
	SEE PAGE 1			

HAZARDOUS AREA  
 CLASS I DIV. I  
 GROUPS A, B, C, D

NON-HAZARDOUS AREA

18.9/99 24.1/01  
 FOXBORO

2AI-12V-FGB OR 2AI-13V-FGB



- 3. EXTERNAL POWER SUPPLY NOT APPROVED, USE FIELD BUSS ONLY.
- 2. MAX. LOOP RESISTANCE EXCLUDING BARRIERS = 350 OHMS @ -12VDC SUPPLY VOLT & 100 OHMS @ +13VDC SUP. V.
- 1. MOORE IND. TRANSMITTERS PIT, PIX, RBX, PTX

NOTES: UNLESS OTHERWISE SPECIFIED

TOLS UNLESS NOTED: .X : ± .10 .XX : ± .030 .XXX : ± .010 ANGLES : ± 30° HOLES : +.002 - .001  DO NOT SCALE DRAWING  SCALE:	DRAWN	J.A. DLIRR	4/23/00
	CHECKED		
	PROJ. ENGR.		
	CUSTOMR.		

**MOORE INDUSTRIES INC.**  
 SEPULVEDA CALIF.

**INTRINSICALLY SAFE  
 INTERCONNECT DIAGRAM**

**FOXBORO SPEC 200**

DWG. NO. 100-100-01

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