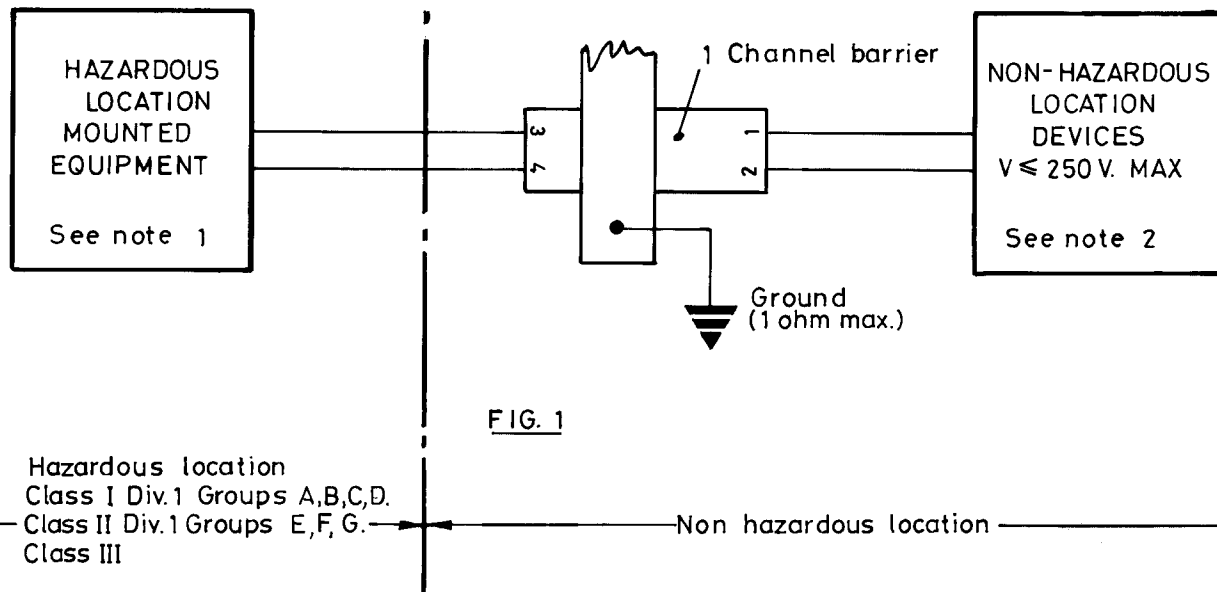


Dimensions in mm

Do not Scale

Third Angle Projection

## 1 - CHANNEL BARRIERS

Note 1

The hazardous location equipment may be switches or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than  $T_4$  ( $275^{\circ}\text{F}$ ,  $135^{\circ}\text{C}$ ). Certified devices with the correct Entity Concept parameters may also be used.

Note 2

The non-hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

Note 3

For guidance on the installation see ANSI/ISA 12.6

Note 4

Entity Concept parameters for 1-channel barriers connected as in Fig.1

MTL Barrier Type	Voc (V)	Isc (mA)	Ca ( $\mu\text{F}$ )	La (mH)
710 +/-	10.03	189	3	1.0
710 ac	10.03	189	3	1.0
715 +/-	15.06	146	0.7	1.4
722 +/-	22.08	146	0.2	1.4
728 +/-	28.12	93	0.12	4.0
728 ac	28.12	93	0.12	4.0

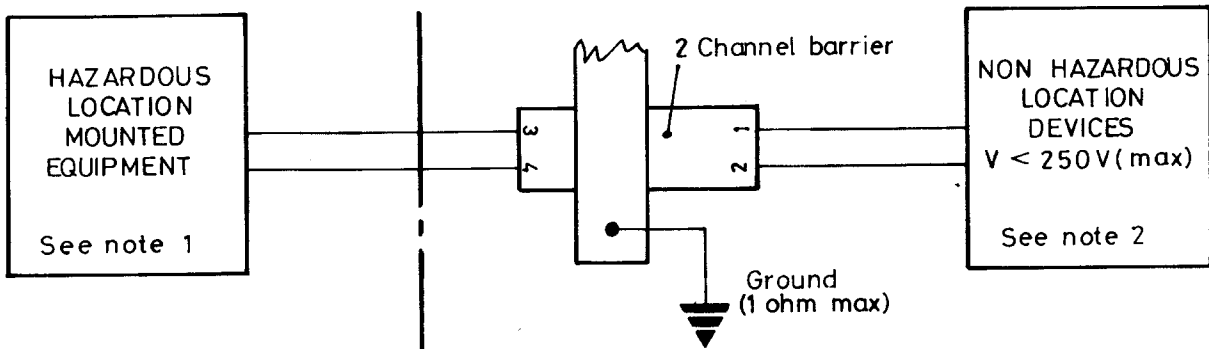
Note 5

One channel of an MTL 779 may be used in place of an MTL 728. The barrier channels must be connected as shown in Fig.3

Certifying Authority:- Factory Mutual

Used on	Scale
Tolerance unless otherwise stated $\pm$	Sheet 1 of 14
Title Installation drawing for the MTL 700 Series Barriers with the Entity Concept parameters.	Drg. No. SCI-88

2 - CHANNEL BARRIERS - NO GROUND RETURN



Hazardous location  
Class I Div.1 Groups A,B,C,D.  
Class II Div.1 Groups E,F,G.  
Class III

FIG. 2

Non hazardous location

**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C). Certified devices with the correct Entity Concept parameters may also be used.

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity Concept for Groups A & B parameters for 2-channel barriers connected as in Fig.2:-

MTL Barrier Type	$V_T$ (V)	$I_T$ (mA)	Ca ( $\mu F$ )	La (mH)
751ac	1.92	178	1000	1.2
755ac	5.92	592	150	0.1
760ac	10.03	377	3	0.2
761ac	18.08	198	0.4	1.0
764+/-	13.65	24	1.0	60
764ac	24.10	24	0.18	60
765ac	15.08	293	0.7	0.4
766ac	24.10	160	0.18	1.5
767+/-	16.75	294	0.5	0.4
772ac	22.13	146	0.2	1.8
778ac	28.23	93	0.12	4.2
786+/-	29.20	0	0.11	500
787+/-	29.74	94	0.10	4.0
788+/-	28.95	282	0.11	0.5
788R+/-	28.95	282	0.11	0.5
796+/-	27.70	137	0.13	2.0

**Note 5** The values of  $V_T$  and  $I_T$  apply only when the barriers are installed as shown in Fig.2

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Iss.	Date/Drawn	Modification
1	11.83 / DRG.	
2	5.84 / DRG.	Sht 4 added.
3	9.84 / DRG.	Shts 5 & 6 added. Redrawn.
4	4.86 / DRG.	Updated shts 7 & 8 added.

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated $\pm$		Sheet 2 of 14
Title INSTALLATION DRAWING FOR THE MTL700 SERIES BARRIERS WITH THE ENTITY CONCEPT PARAMETERS.		Drg. No. SCI-88

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Iss.	1	11.83/DRG
Date/Drawn	2	5.84/DRG
Modification	3	9.84/DRG
	4	4.86/DRG

SHEET 4 ADDED.  
 SHEETS 5 & 6 ADDED. REDRAWN  
 UPDATED. SHTS. 7 & 8 ADDED.

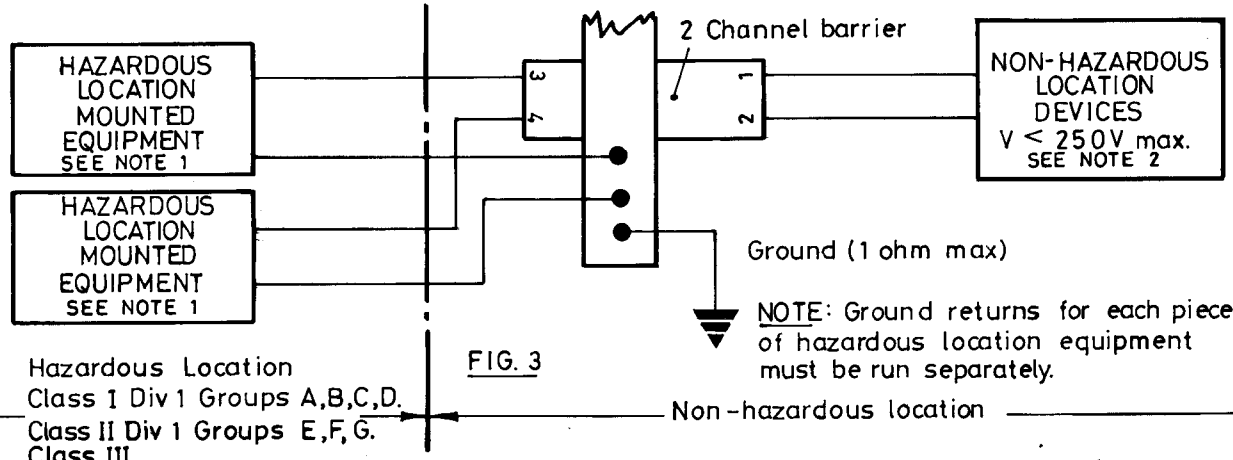
5	7.87/DRG
6	2.86/DRG
7	12.91/DRG
8	2.96/ACW

Shs. 11, 12, 13 added.  
 Was 3 of 13 Sheets

Dimensions in mm

Do not Scale  
 1 - CHANNEL - TO GROUND RETURN

Third Angle Projection



Note 1 The hazardous location equipment may be switches or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C). Certified devices with the correct Entity Concept parameters may also be used. The two pieces of hazardous location mounted equipment must be kept separate from each other.

Note 2 The non-hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

Note 3 For guidance on the installation see ANSI/ISA RP12.6

Note 4 Entity Concept parameters for 2-channel barriers connected as in Fig.3

MTL Barrier Type	Voc (V)	Isc (mA)	Ca (µF)	La (mH)
751ac	0.96	89	1000	4.5
755ac	2.96	296	1000	0.4
760ac	10.03	189	3	0.9
761ac	9.04	99	3.1	3.5
764+/-	12.05	12	1.5	200
764ac	12.05	12	1.5	200
765ac	15.08	147	0.7	1.3
766ac	12.05	80	1.5	5.6
767+/-	15.15	147	0.7	1.7
768+/-	22.13	147	0.2	1.7
772ac	22.13	73	0.2	6.0
778ac	28.23	46	0.12	14.0
779+/-	28.17	93	0.12	4.0
786+/-	28.00	0	0.12	500
787+/- (28v ch)	28.54	94	0.11	4.0
787+/- (diodech)	28.00	0	0.12	500
788+/- (28v ch)	28.15	93	0.12	4.0
788+/- (10v ch)	10.04	189	3	1.0
788R+/- (28v ch)	28.15	93	0.12	4.0
788R+/- (10v ch)	10.04	189	3	1.0
796+/- (26v ch)	26.10	86	0.14	4.7
796+/- (20v ch)	20.05	51.4	0.3	13

Note The values of Voc and Isc apply only when the barriers are installed as shown in Fig. 3

Certifying Authority:- Factory Mutual	Sheet 3 of 14
Title Installation Drawing for the MTL 700 Series Barriers with the Entity Concept parameters.	Drg. No. SCI-88

6	2.88 DRG	Shts. 11, 12, 13 added.
7	12.91 DRG.	
8	2.96 / ACW	Was 4 of 13 Sheets.

MTL 100 series replacement by the MTL 700 series barriers

This sheet shows the comparison between the MTL 100 series barriers and the MTL 700 series barriers, and permits the MTL 100 series barrier already specified in a Factory Mutual approved system to be replaced by the equivalent MTL 700 series barrier shown below.

Permitted barrier replacement

MTL 100 Series type	Voc (V)	Isc (mA)	Equivalent MTL 700 series type	Voc (V)	Isc (mA)
MTL 110	9.85	220.6	MTL 710	10.03	189
MTL 115	16.67	159.1	MTL 715	15.06	146
MTL 122	22.99	161.3	MTL 722	22.08	146
MTL 128	29.95	99.8	MTL 728	28.12	93
MTL 151	2.44	428.1	MTL 751	1.92	89
MTL 155	10.88	526.3	MTL 755	5.92	296
MTL 164+/-	31.48	16.1	MTL 764 ±	13.25	12
MTL 164	31.32	15.8	MTL 764 AC	24.10	12
MTL 165	16.37	156.0	MTL 765	15.08	147
MTL 172	24.74	83.9	MTL 772	22.13	73
MTL 178	31.90	51.7	MTL 778	28.23	46
MTL 179	30.74	102.5	MTL 779	29.37	93
MTL 187	29.95	101.6	MTL 787	29.74	94
MTL 188	29.95	220.6	MTL 788	28.75	189
MTL 188R	29.95	220.6	MTL 788R	28.75	189
MTL 196	28.2	94	MTL 796	27.30	86

The following two barriers do not have a direct MTL 100 Series equivalent but each could replace two 1-channel barriers as follows:-

MTL 700 Type	Voc (V)	Isc (mA)	MTL 100 Type	Voc (V)	Isc (mA)
MTL 767	16.35	147	MTL 115	16.67	159.1
MTL 768	23.33	147	MTL 122	22.99	161.3

Note 1

The parameters shown above for the MTL 767 & MTL 768 barriers are for each channel which must be used separately when replacing the MTL 100 series.

Note 2

When an MTL 100 series barrier has been replaced by an MTL 700 series barrier, the cable parameters shown on sheets 1 thru 3 for the MTL 700 series should be used.

The terminal numbering system has been simplified in the new series, and the equivalent terminal numbers are as follows:-

IMPORTANT

This drawing permits only the MTL 700 series to replace the MTL 100 series barriers, it does not permit the MTL 700 series to be replaced by the MTL 100 series.

No. of Channels	100 Series		700 Series	
	Haz	Safe	Haz	Safe
1	4 (Earth)	2	3 (Channel 1)	1
	3 (Channel 1)	1	4 (Earth)	2
2	13 (Channel 1)	11	3 (Channel 1)	1
	23 (Channel 2)	21	4 (Channel 2)	2

Certifying Authority:- Factory Mutual.

Sheet 4 of 14

Title Replacement of the MTL 100 series barriers by the equivalent MTL 700 series barrier.

Drg. No. SCI-88

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Iss.	2	5.84/ DRG	SHEET 4 ADDED	CI's
	3	9.84/ DRG	SHEETS 5 & 6 ADDED - REDRAWN	
	4	4.86/ DRG.	UPDATED. SHTS 7 & 8 ADDED	
	5	7.87/ DRG		

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Redrawn. Vr & IT added.  
 Was 5 of 13 Sheets

12/91 / DRG. 2.96/ACW

7 8

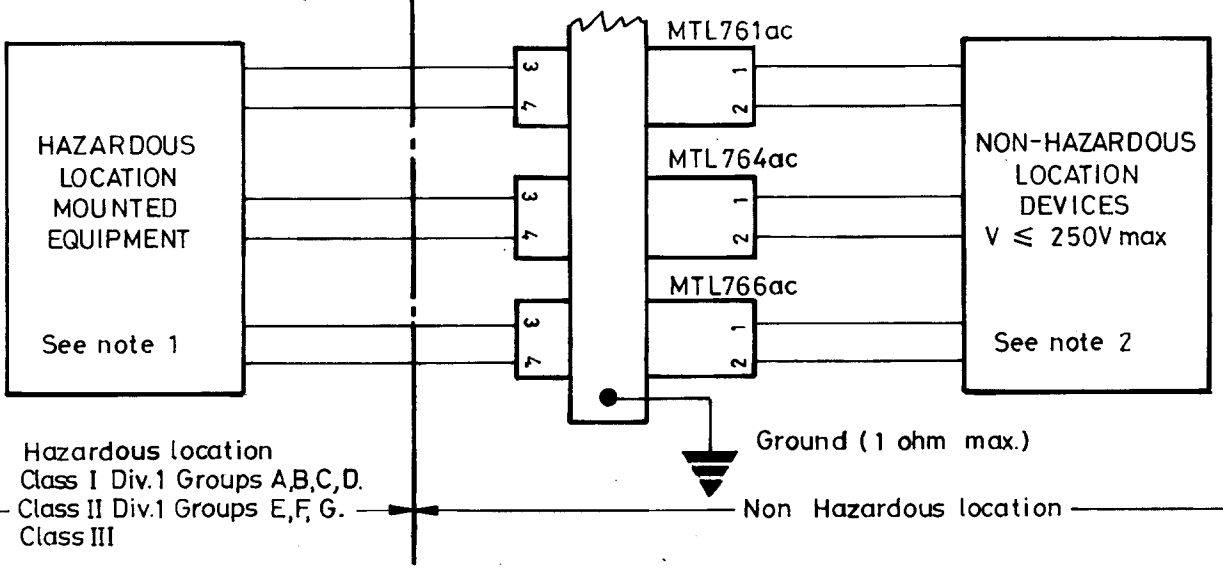
Iss. Date/Drawn Modification Chi

3 9.84 / DRG. Sheets 5 & 6 added.

4 4.86 / DRG. Updated sheets. 7 & 8 added.

5 7.87 / DRG.

6 2.88 / DRG. Sheets 11, 12, 13 added.



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

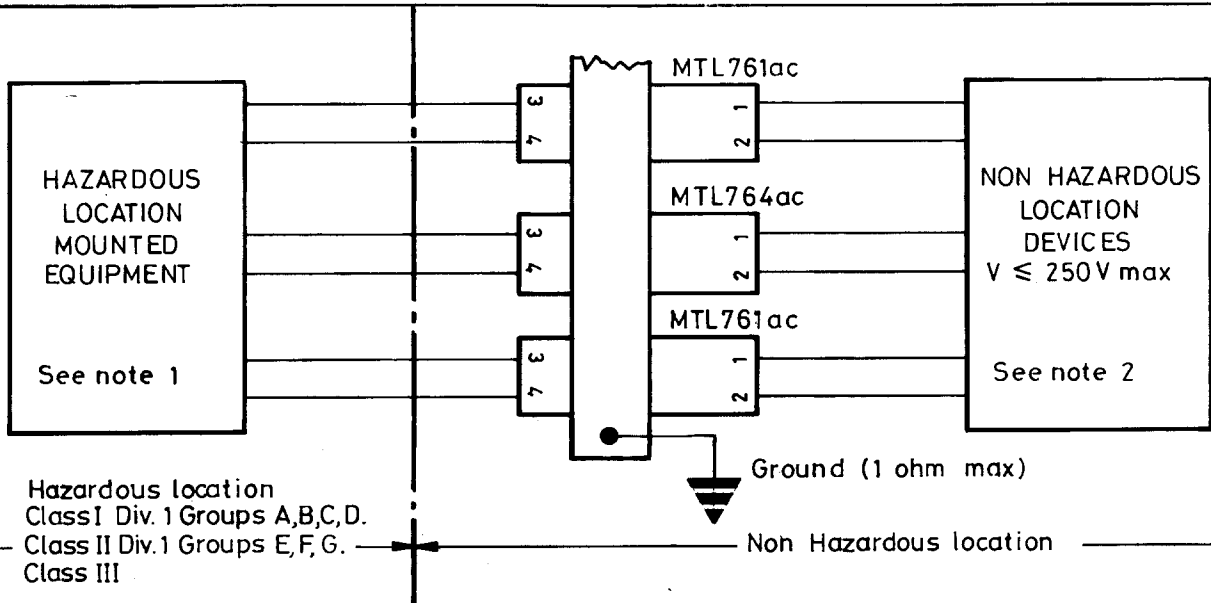
**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
A & B	24.10	382	0.2	0.24
C	24.10	382	0.6	0.72
D	24.10	382	1.6	1.92

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 5 of 14
Title INSTALLATION DRAWING FOR THE MTL700 SERIES - STRAIN GAUGE BRIDGE SYSTEM		Drg. No. SCI - 88

6	2.88 / DRG.	Shfts. 11, 12, 13 added.
7	12.91 / DRG.	Redrawn. Vr & IT added.
8	2.96 / ACW	Was 6 of 13 Sheets
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Iss.	Date/Drawn	Modification
3	9.84 / DRG.	Sheets 5 & 6 added.
4	4.86 / DRG.	Updated. Shfts. 7 & 8 added.
5	7.87 / DRG.	



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

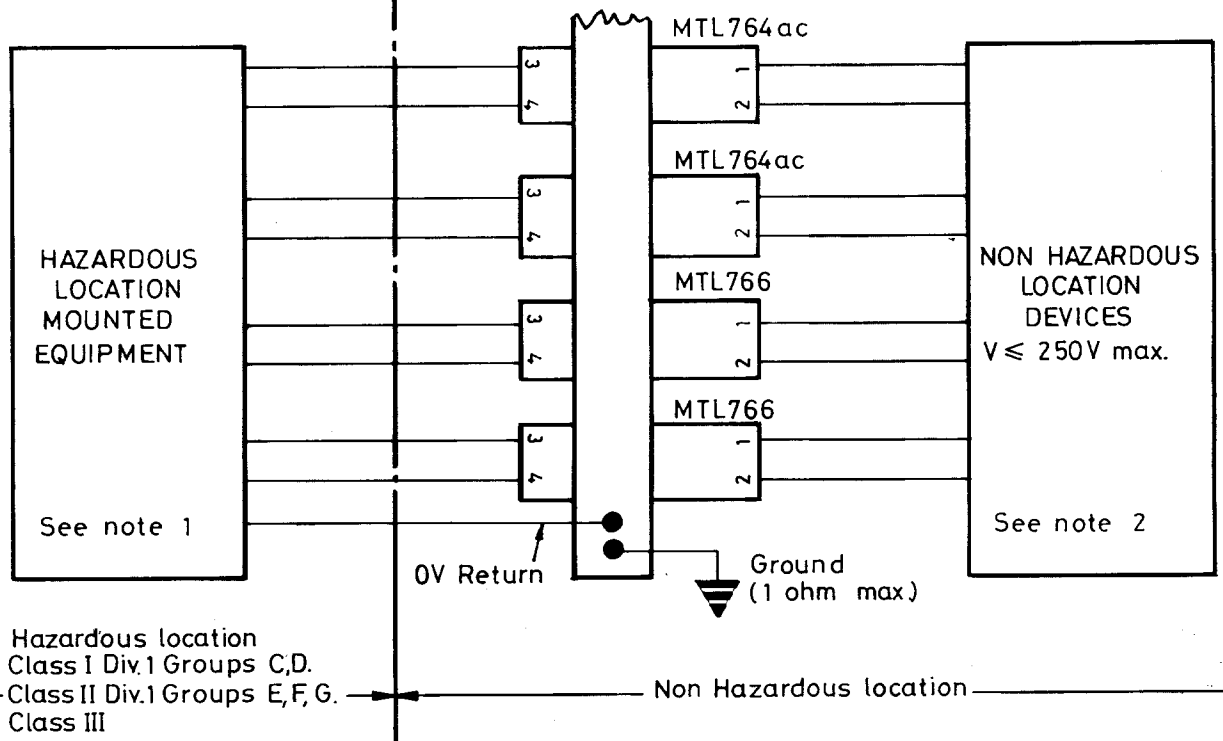
**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

Group	$V_T$ V	$I_T$ mA	$C_a$ $\mu F$	$L_a$ mH
A & B	24.1	420	0.2	0.2
C	24.1	420	0.6	0.6
D	24.1	420	1.6	1.6

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated $\pm$		Sheet 6 of 14
Title INSTALLATION DRAWING FOR THE MTL700 SERIES - STRAIN GAUGE BRIDGE SYSTEM.		Drg. No. SCI - 88



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	24.1	368	0.6	1.1
D	24.1	368	1.6	2.1

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 7 of 14
Title: INSTALLATION DRAWING FOR THE MTL 700 SERIES - TRIPLE STRAIN GAUGE BRIDGE SYSTEM.		Drg. No. SCI - 88

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2.96/ACW

8

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Modification

Date/Drawn

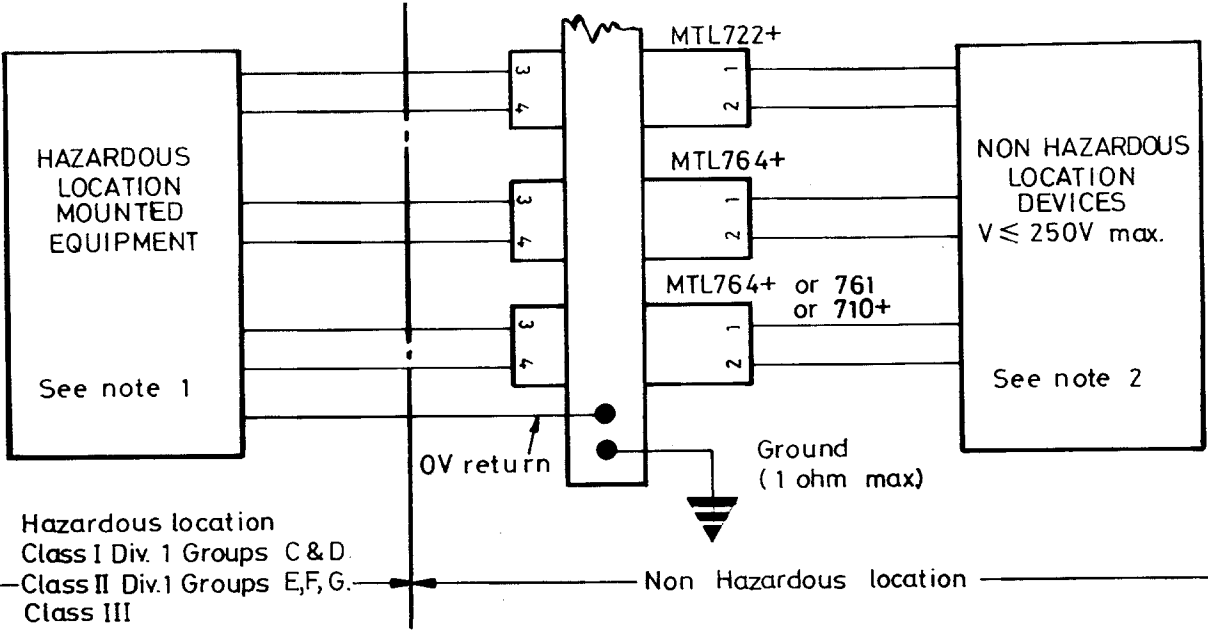
Iss.

4 4.86 / DRG. This shft. added to SCI-88

5 7.87 / DRG. Shfts. 11, 12, 13 added.

6 2.88 / DRG. Redrawn. Vr & It added.

7 12.91 / DRG.



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

Groups A, B, C and D

MTL722+, 764+, and 764+				
Group	$V_T$ V	$I_T$ mA	Ca $\mu$ F	La mH
A & B	23.68	194	0.2	1.0
C	23.68	194	0.6	4.0
D	23.68	194	1.6	8.0

Groups C and D

MTL722+, 764+ and 761				
Group	$V_T$ V	$I_T$ mA	Ca $\mu$ F	La mH
C	31.12	368	0.3	1.2
D	31.12	368	0.8	1.5

Groups A, B, C and D

MTL722+, 764+ and 710+				
Group	$V_T$ V	$I_T$ mA	Ca $\mu$ F	La mH
A & B	23.68	359	0.2	0.3
C	23.68	359	0.6	0.6
D	23.68	359	1.6	0.9

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated $\pm$		Sheet 8 of 14
Title INSTALLATION DRAWING FOR THE MTL700 SERIES - STRAIN GAUGE BRIDGE USING MTL722		Drg. No. SCI-88

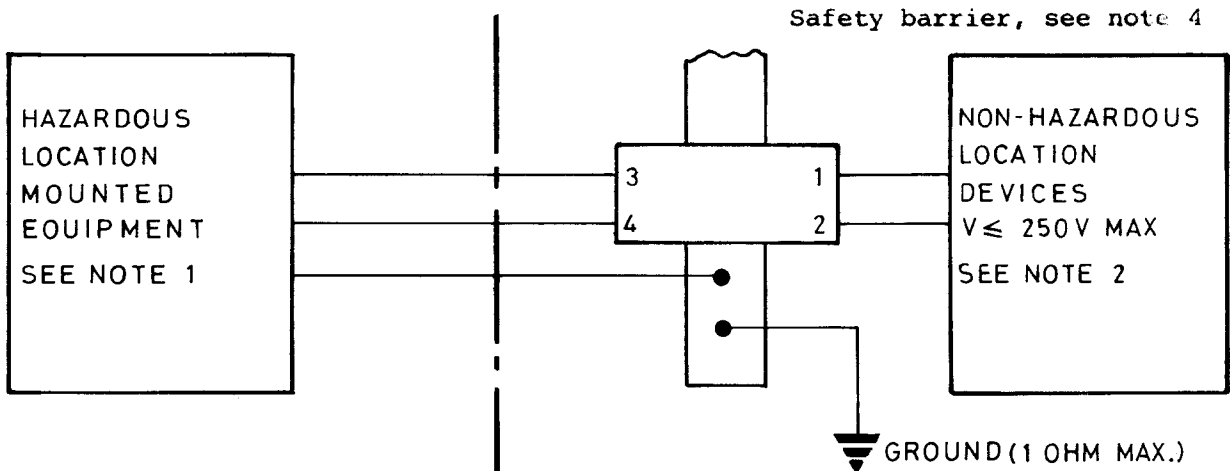


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Wks 9 of 13 Sheets  
2.96/ACW  
8

Iss. 5 7.87 / DRG.  
6 2.88 / DRG. Shts. 11, 12, 13 added  
7 12.91 / DRG.

Modification  
Chk



HAZARDOUS LOCATION  
CLASS I, DIV 1, GROUPS C & D  
CLASS II, DIV 1, GROUPS E, F & G  
CLASS III

NON-HAZARDOUS LOCATION

**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

Table 1

MTL768				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	23.73	293	0.6	1.8
D	23.73	293	1.7	3.4

Table 1

MTL779				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	29.77	186	0.37	4.6
D	29.77	186	1.0	8.6

Entity Parameters

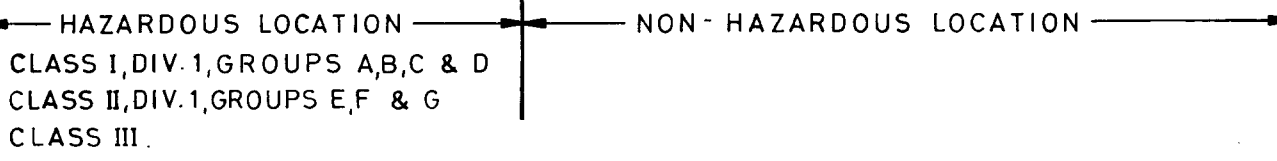
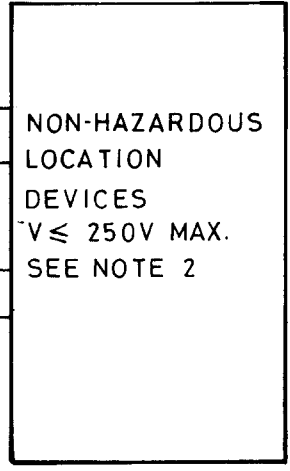
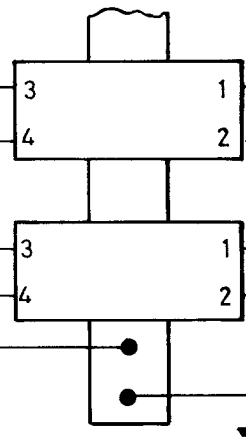
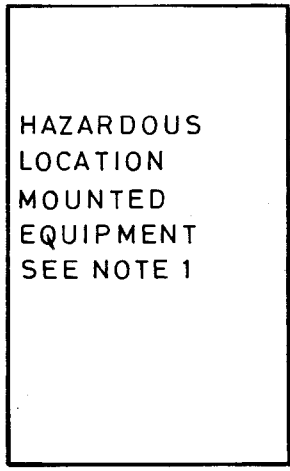
MTL722			
V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
23.68	292	0.6	1.9

MTL728, 787, 788 (28V)			
V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
30.14	188	0.36	4.5

**Note 5** The MTL768 barrier may be replaced by the following e.g MTL 722.

**Note 6** The MTL779 barrier may be replaced by the following e.g MTL728, 787, or 28V channel of the MTL788.

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 9 of 14
Title INSTALLATION DRAWING OF 2 CHANNELS OF AN MTL768 AND 2 CHANNELS OF AN MTL779		Drg. No. SCI-88



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C).

**Note 2** The non-hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

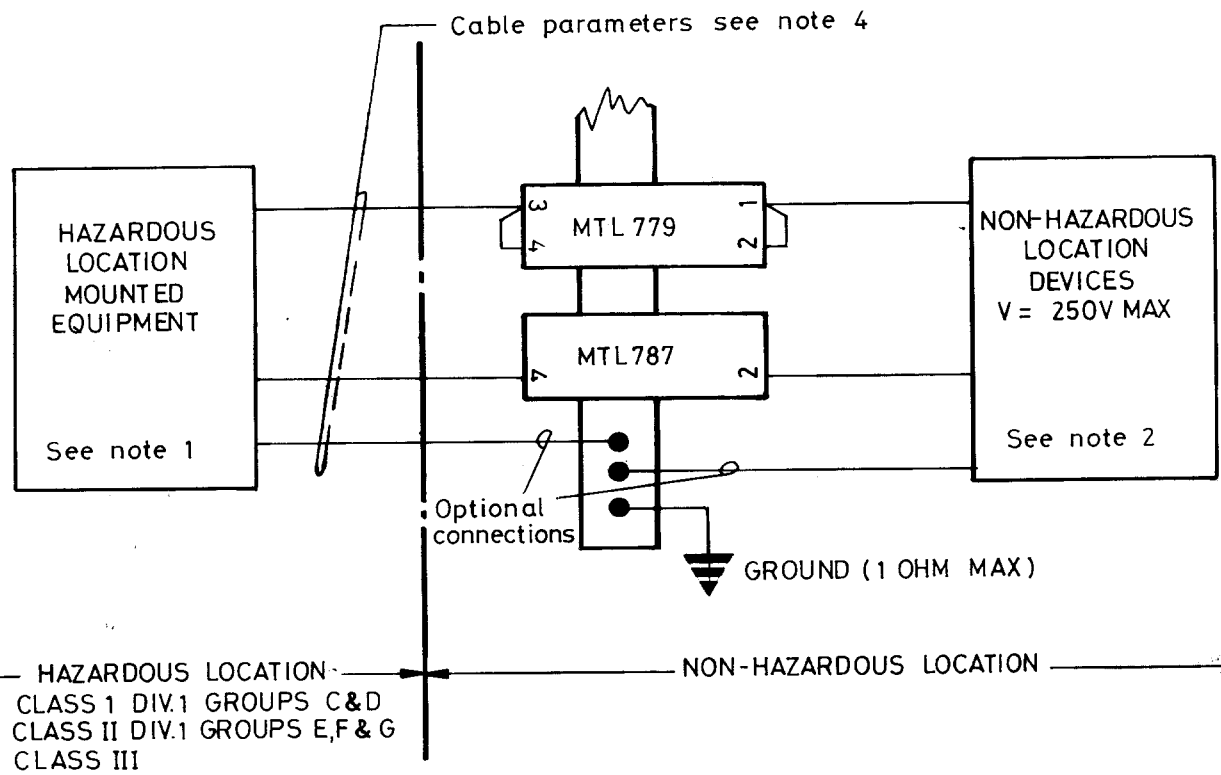
MTL755 3-CHANNELS				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
A & B	5.92	888	40	0.05
C	5.92	888	120	0.14
D	5.92	888	320	0.30

MTL755 4-CHANNELS				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
A & B	5.92	1184	40	0.03
C	5.92	1184	120	0.10
D	5.92	1184	320	0.20

Iss.	Date/Drawn	Modification	Chk
5	7.87 / DRG.		
6	2.86 / DRG.	SMTs 11, 12, 13 added.	
7	12.91 / DRG.	Redrawn. V <sub>T</sub> & I <sub>T</sub> added.	
8	2.96 / ACW	Wss 10 of 13 sheets	

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 10 of 14
Title INSTALLATION DRAWING OF 3 & 4 CHANNELS OF AN MTL755		Drg. No. SCI - 88

Iss.	Date/Drawn	Modification	Chk
6	2.88 / DRG		
7	12.91 / DRG	Redrawn. VT & IT added.	
8	2.96 / ACW	Was 11 of 13 Sheets	



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C). Alternatively the equipment with the correct Entity parameters may be used.

**Note 2** The non-hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

MTL779 + 787				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	28.17	188	0.39	4.3
D	28.17	188	1.01	8.2

**Note 5** Entity parameters:-  
Voc = 28.17 volts, = Isc = 188mA

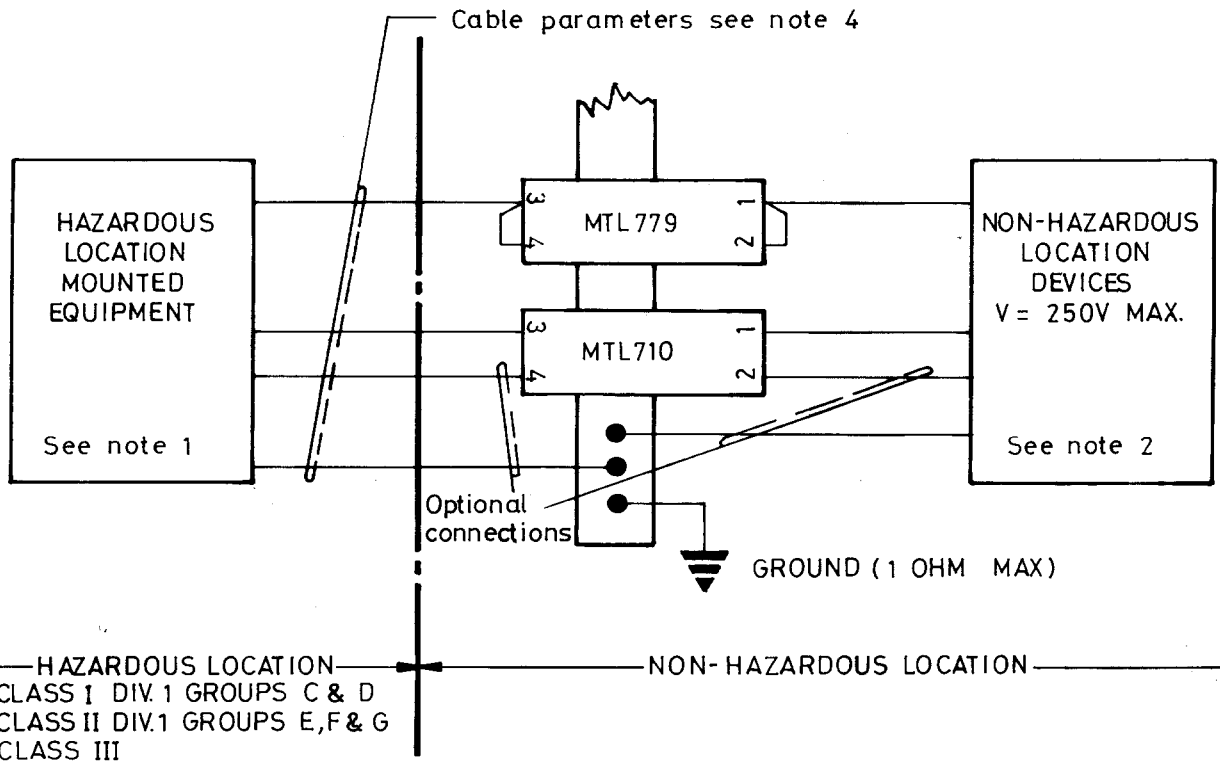
**Note 6** Both barriers must be of the same polarity.

**Note 7** The MTL779 may be replaced by 2 x MTL728 barriers.

**Note 8** The MTL787 channel may be replaced by ½ MTL786. (either channel)

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 11 of 14
Title INSTALLATION DRAWING OF 2 CHANNEL OF AN MTL779 & DIODE RETURN CHANNEL OF AN MTL787		Drg. No. SCI - 88

Iss.	6	7	8
Date/Drawn	2.88 / DRG	12.91 / DRG.	2.96 / ACW
Modification		Redrawn. VT & IT added.	Was 12 of 13 Sheets
Chk			



**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C). Alternatively the equipment with the correct Entity parameters may be used.

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

MTL779 + 710				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	29.77	375	0.17	1.2
D	29.77	375	0.98	2.1

**Note 5** Entity parameters:-  
Voc = 28.17V, Isc = 188mA term 3/4 of 779 to ground.  
Voc = 10.03V, Isc = 189mA term 3 of 710 to ground.

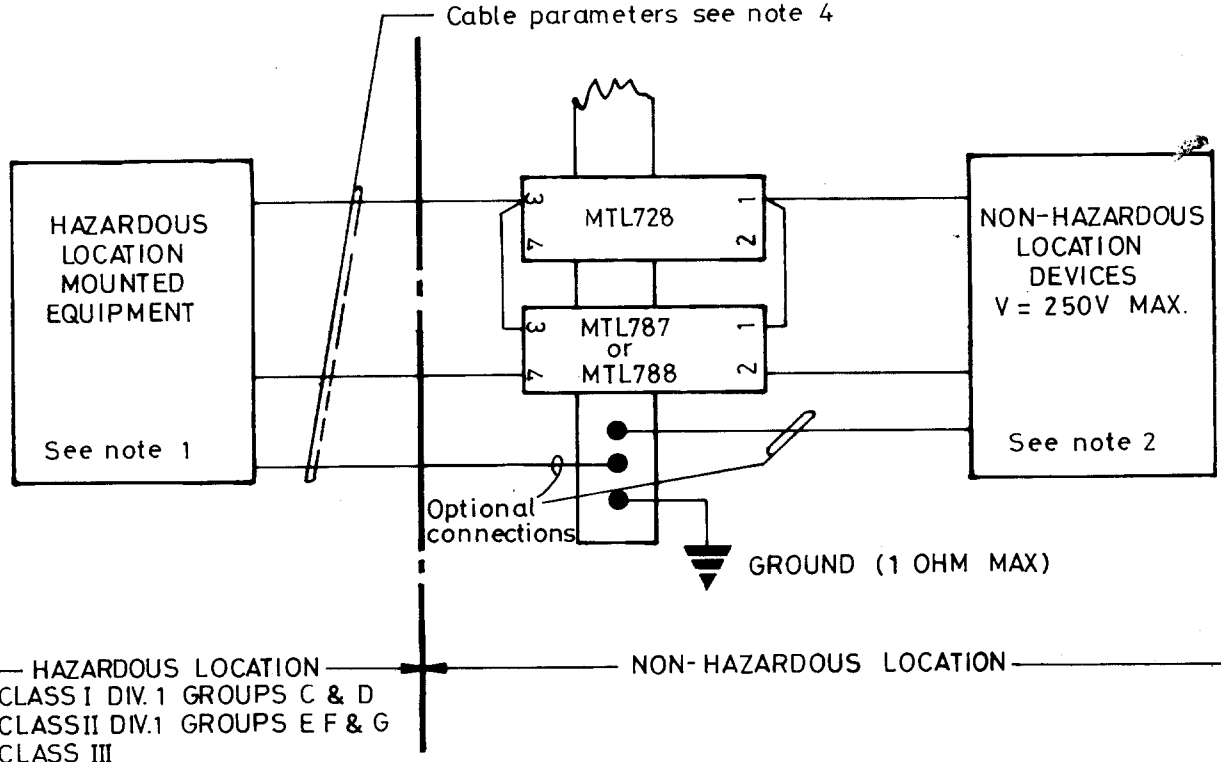
**Note 6** Both barriers must be of the same polarity.

**Note 7** The MTL779 may be replaced by 2 x MTL728 barriers.

**Note 8** The barriers may be replaced by an MTL788 and an MTL728.

Certifying Authority: FACTORY MUTUAL		Scale
Tolerance unless otherwise stated ±		Sheet 12 of 14
Title INSTALLATION DRAWING OF 2 CHANNELS OF AN MTL779 & AN MTL710		Drg. No. SCI-88

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HAZARDOUS LOCATION CLASS I DIV.1 GROUPS C & D CLASS II DIV.1 GROUPS E F & G CLASS III

NON-HAZARDOUS LOCATION

**Note 1** The hazardous location equipment may be switches, or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is greater than T4 (275°F, 135°C). Alternatively the equipment with the correct Entity parameters may be used.

**Note 2** The non hazardous location or control room mounted equipment should not use or generate more than 250 volts r.m.s.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The following Entity parameters must not be exceeded:-

MTL728 + 787				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	30.14	187	0.39	4.3
D	30.14	187	1.01	8.2

MTL728 + 788				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	Ca μF	La mH
C	29.75	375	0.39	0.8
D	29.75	375	1.01	2.1

**Note 5** Entity parameters for 728 + 787:-  
Voc = 28.17 volts Isc = 188mA

Entity parameters for 728 + 788:-  
Voc = 28.15V Isc=186mA term 3 of 788  
Voc = 10.04V Isc = 189mA term 4 of 788

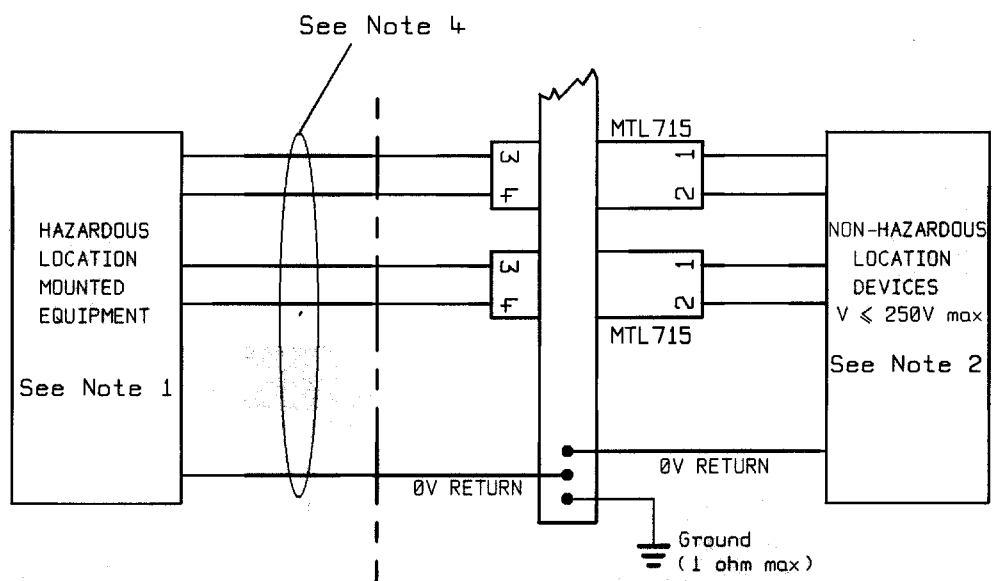
**Note 6** Both barriers must be of the same polarity.

**Note 7** The MTL728 may be replaced by any 28 volt 300 ohm barrier channel e.g ½ MTL779, MTL788 - channel 1 or MTL787 channel 1.

Iss.	6
Date/Drawn	2.88 / DRG.
Modification	Redrawn. VT & IT added.
Chk.	Was 13 of 13 Sheets

Certifying Authority: FACTORY MUTUAL	Scale
Tolerance unless otherwise stated ±	Sheet 13 of 14
Title INSTALLATION DRAWING OF MTL728 AND MTL788	Drg. No. SCI - 88

Is	8	2.95	ACH	New Sheet.
Date	8	2.95	ACH	
Drn				
Modification				
No				
Cl				
Ck				



HAZARDOUS LOCATION  
 CLASS I, DIV1, GPS A, B, C, D  
 CLASS II, DIV1, GPS E, F&G  
 CLASS III

NON-HAZARDOUS LOCATION

**Note 1.** The Hazardous Location equipment may be switches or thermocouples. Other apparatus such as RTDs, LEDs and non-inductive resistors may be used if the autoignition temperature of the hazardous location is >T<sub>4</sub> (275°F, 135°C). Alternatively the equipment with the correct Entity parameters may be used.

**Note 2.** The Non-Hazardous Location (or Control Room) mounted equipment must not use or generate voltages in excess of 250V rms.

**Note 3.** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4.** The following Entity parameters must not be exceeded :-  
 (These parameters are based upon all terminals being connected together in the Hazardous Location)

2 x MTL715				
Group	V <sub>T</sub> V	I <sub>T</sub> mA	C <sub>a</sub> µF	L <sub>a</sub> mH
A & B	16.66	292	0.52	0.44
C	16.66	292	1.56	1.32
D	16.66	292	4.16	3.52

Note :- Only barriers of like polarity may be used in this configuration.

Certifying Authority :- Factory Mutual		Scale N/A
Tolerance unless otherwise stated ± N/A		Sheet 14 of 14
Title INSTALLATION DRAWING FOR TWO MTL715 SHUNT DIODE SAFETY BARRIERS		Drg. No. SCI-88

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