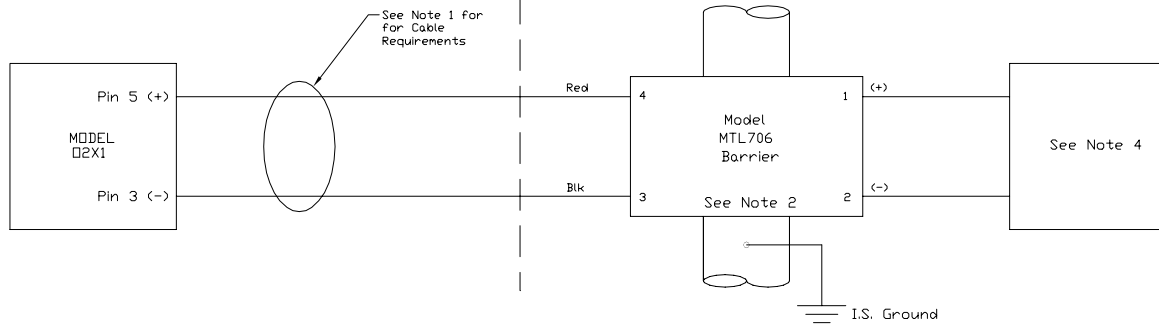


MTL706 SYSTEM INSTALLATION DIAGRAM

HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, II, III, DIVISION 1, GROUP A, B, C, D, E, F, G

NON-HAZARDOUS LOCATION



NOTES:

1. A) Approved Installations - Total cable capacitance and inductance due to the cable cannot exceed the following values.

Group A, B	Group C, E	Group D, F, G
0.068uF 4.0mH	0.30uF 18mH	0.90uF 35mH

- B) CSA Installations - Refer to the Canadian Electrical Code for allowable cable parameters and lengths.

2. Barriers must be installed in accordance with barrier manufacturer's specifications.
3. Installations should be in accordance with ANSI RP12.6, "Installations of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code (ANSI/NFPA 70).
4. Control room equipment connected to the associated apparatus (barrier inputs) must not use or generate more than 250V.
5. CSA installations must be installed in accordance with the Canadian Electrical Code part 1.
6. WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR SAFETY

AVERTISSEMENT - LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

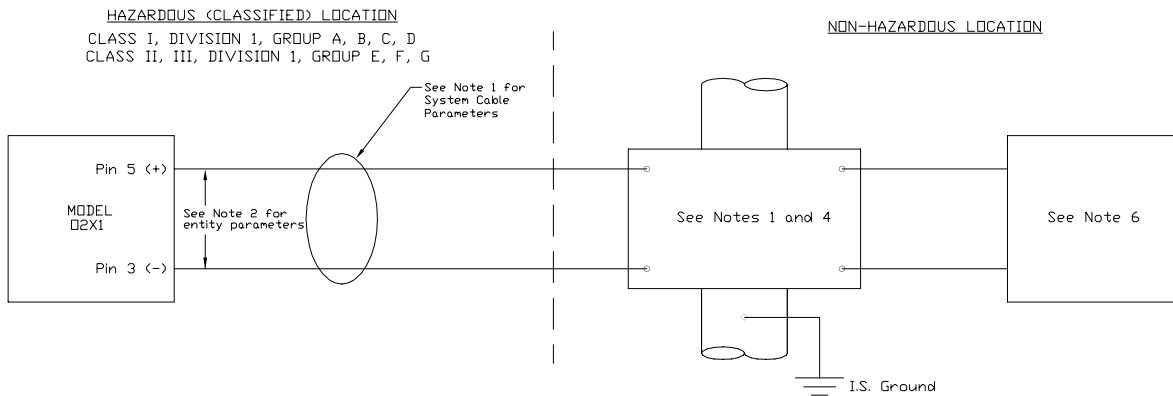
THIS DRAWING IS AN FM/CSA-APPROVED DESIGN AND NO CHANGE IS PERMITTED UNLESS AUTHORIZED BY FM/CSA.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES/MM FRACTIONS DECIMALS ANGLES 1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 2 3/4 3 3 1/4 3 1/2 3 3/4 4 4 1/4 4 1/2 4 3/4 5 5 1/4 5 1/2 5 3/4 6 6 1/4 6 1/2 6 3/4 7 7 1/4 7 1/2 7 3/4 8 8 1/4 8 1/2 8 3/4 9 9 1/4 9 1/2 9 3/4 10 10 1/4 10 1/2 10 3/4 11 11 1/4 11 1/2 11 3/4 12 12 1/4 12 1/2 12 3/4 13 13 1/4 13 1/2 13 3/4 14 14 1/4 14 1/2 14 3/4 15 15 1/4 15 1/2 15 3/4 16 16 1/4 16 1/2 16 3/4 17 17 1/4 17 1/2 17 3/4 18 18 1/4 18 1/2 18 3/4 19 19 1/4 19 1/2 19 3/4 20 20 1/4 20 1/2 20 3/4 21 21 1/4 21 1/2 21 3/4 22 22 1/4 22 1/2 22 3/4 23 23 1/4 23 1/2 23 3/4 24 24 1/4 24 1/2 24 3/4 25 25 1/4 25 1/2 25 3/4 26 26 1/4 26 1/2 26 3/4 27 27 1/4 27 1/2 27 3/4 28 28 1/4 28 1/2 28 3/4 29 29 1/4 29 1/2 29 3/4 30 30 1/4 30 1/2 30 3/4 31 31 1/4 31 1/2 31 3/4 32 32 1/4 32 1/2 32 3/4 33 33 1/4 33 1/2 33 3/4 34 34 1/4 34 1/2 34 3/4 35 35 1/4 35 1/2 35 3/4 36 36 1/4 36 1/2 36 3/4 37 37 1/4 37 1/2 37 3/4 38 38 1/4 38 1/2 38 3/4 39 39 1/4 39 1/2 39 3/4 40 40 1/4 40 1/2 40 3/4 41 41 1/4 41 1/2 41 3/4 42 42 1/4 42 1/2 42 3/4 43 43 1/4 43 1/2 43 3/4 44 44 1/4 44 1/2 44 3/4 45 45 1/4 45 1/2 45 3/4 46 46 1/4 46 1/2 46 3/4 47 47 1/4 47 1/2 47 3/4 48 48 1/4 48 1/2 48 3/4 49 49 1/4 49 1/2 49 3/4 50 50 1/4 50 1/2 50 3/4 51 51 1/4 51 1/2 51 3/4 52 52 1/4 52 1/2 52 3/4 53 53 1/4 53 1/2 53 3/4 54 54 1/4 54 1/2 54 3/4 55 55 1/4 55 1/2 55 3/4 56 56 1/4 56 1/2 56 3/4 57 57 1/4 57 1/2 57 3/4 58 58 1/4 58 1/2 58 3/4 59 59 1/4 59 1/2 59 3/4 60 60 1/4 60 1/2 60 3/4 61 61 1/4 61 1/2 61 3/4 62 62 1/4 62 1/2 62 3/4 63 63 1/4 63 1/2 63 3/4 64 64 1/4 64 1/2 64 3/4 65 65 1/4 65 1/2 65 3/4 66 66 1/4 66 1/2 66 3/4 67 67 1/4 67 1/2 67 3/4 68 68 1/4 68 1/2 68 3/4 69 69 1/4 69 1/2 69 3/4 70 70 1/4 70 1/2 70 3/4 71 71 1/4 71 1/2 71 3/4 72 72 1/4 72 1/2 72 3/4 73 73 1/4 73 1/2 73 3/4 74 74 1/4 74 1/2 74 3/4 75 75 1/4 75 1/2 75 3/4 76 76 1/4 76 1/2 76 3/4 77 77 1/4 77 1/2 77 3/4 78 78 1/4 78 1/2 78 3/4 79 79 1/4 79 1/2 79 3/4 80 80 1/4 80 1/2 80 3/4 81 81 1/4 81 1/2 81 3/4 82 82 1/4 82 1/2 82 3/4 83 83 1/4 83 1/2 83 3/4 84 84 1/4 84 1/2 84 3/4 85 85 1/4 85 1/2 85 3/4 86 86 1/4 86 1/2 86 3/4 87 87 1/4 87 1/2 87 3/4 88 88 1/4 88 1/2 88 3/4 89 89 1/4 89 1/2 89 3/4 90 90 1/4 90 1/2 90 3/4 91 91 1/4 91 1/2 91 3/4 92 92 1/4 92 1/2 92 3/4 93 93 1/4 93 1/2 93 3/4 94 94 1/4 94 1/2 94 3/4 95 95 1/4 95 1/2 95 3/4 96 96 1/4 96 1/2 96 3/4 97 97 1/4 97 1/2 97 3/4 98 98 1/4 98 1/2 98 3/4 99 99 1/4 99 1/2 99 3/4 100 100 1/4 100 1/2 100 3/4 101 101 1/4 101 1/2 101 3/4 102 102 1/4 102 1/2 102 3/4 103 103 1/4 103 1/2 103 3/4 104 104 1/4 104 1/2 104 3/4 105 105 1/4 105 1/2 105 3/4 106 106 1/4 106 1/2 106 3/4 107 107 1/4 107 1/2 107 3/4 108 108 1/4 108 1/2 108 3/4 109 109 1/4 109 1/2 109 3/4 110 110 1/4 110 1/2 110 3/4 111 111 1/4 111 1/2 111 3/4 112 112 1/4 112 1/2 112 3/4 113 113 1/4 113 1/2 113 3/4 114 114 1/4 114 1/2 114 3/4 115 115 1/4 115 1/2 115 3/4 116 116 1/4 116 1/2 116 3/4 117 117 1/4 117 1/2 117 3/4 118 118 1/4 118 1/2 118 3/4 119 119 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405 405 1/4 405 1/2 405 3/4 406 406 1/4 406 1/2 406 3/4 407 407 1/4 407 1/2 407 3/4 408 408 1/4 408 1/2 408 3/4 409 409 1/4 409 1/2 409 3/4 410 410 1/4 410 1/2 410 3/4 411 411 1/4 411 1/2 411 3/4 412 412 1/4 412 1/2 412 3/4 413 413 1/4 413 1/2 413 3/4 414 414 1/4 414 1/2 414 3/4 415 415 1/4 415 1/2 415 3/4 416 416 1/4 416 1/2 416 3/4 417 417 1/4 417 1/2 417 3/4 418 418 1/4 418 1/2 418 3/4 419 419 1/4 419 1

J
I
H
G
F
E
D
C
B
A

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

REVISIONS				
REV	ECO	DESCRIPTIONS	DWN	CKD
A	✓	RELEASED TO ECO CONTROL	12/1/97	5/19/97
B	02994	UPDATED PER ECO	LML 7/13/98	5/19/97



NOTES:

1. Factory Mutual Research Corporation (FMRC) Approved or Canadian Standards Association (CSA) Certified Zener Barrier with entity outputs such that:

$$\begin{aligned} V_{max} &\geq V_{cc} \text{ or } V_t \\ I_{max} &\geq I_{sc} \text{ or } I_t \\ C_a &\geq C_i + C_{cable} \\ L_a &\geq L_i + L_{cable} \end{aligned}$$

or CSA Certified Zener Barrier with the following parametrics parameters:

$$\begin{aligned} 28V(\text{max}) & \quad 300 \Omega(\text{min}) \\ 22V(\text{max}) & \quad 180 \Omega(\text{min}) \end{aligned}$$

or Systems Barriers listed below:

NOTE: Cable capacitance and inductance must not exceed the allowed values.

ALLOWED CABLE CAPACITANCE & INDUCTANCE

MTL Mfd:	Group A, B	Group C	Group D
*MTL706:	0.068uF 4.0mH	0.30uF 18mH	0.90uF 35mH
*MTL3046B	0.078uF 4.0mH	0.33uF 18mH	0.98uF 35mH
*MTL4041B	0.078uF 1.94mH	0.33uF 7.8mH	0.98uF 15mH
R Stahl Mfd:			
9001/01-280-100-10	0.088uF 3.6mH	0.36uF 14mH	1.06uF 30mH
9002/13/280-093-00	0.088uF 4.4mH	0.36uF 19mH	1.06uF 36mH

*For CSA installations refer to Canadian Electrical Code for allowable cable parameters

2. FMRC and CSA Entity Parameters Pin 5(+) and Pin 3(-):

$$\begin{aligned} V_{max} &= 28V_{dc} \text{ or (See Note 3)} \\ I_{max} &= 150 \text{ mA} \\ C_i &= 0.0517\mu F \\ L_i &= 0 \text{ mH} \\ P_{max} &= 1.2W \\ T_{amb.} &= 60^\circ C \text{ T4} \end{aligned}$$

3. Excluding Associated Intrinsically Safe Apparatus(AIS) with a Voc or Vt less than 5.89Vdc.
4. Barrier must be installed in accordance with barrier manufacture's installation diagram.
5. Installation should be in accordance with ANSI/ISA RP12.6, 'Installations of intrinsically Safe Systems for Hazardous (Classified) locations' and the National Electrical Code(ANSI/NFPA 70).
6. Control room equipment connected to associated apparatus must not use or generate more than 250V.
7. CSA certified installations must be installed in accordance with the Canadian Electrical Code part 1.
8. WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
AVERTISSEMENT - LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.

THIS DRAWING IS AN FM/CSA-APPROVED DESIGN AND NO CHANGE IS PERMITTED UNLESS AUTHORIZED BY FM/CSA.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES/MM			PANAMETRICS WALTHAM, MASS. 02154-3497	
FRACTIONS	DECIMALS	ANGLES	TITLE	
1/8"	.125"	1°	SYSTEM DRAWING	
	.XXX"	1°	02X1	
			SURFACE FINISH 125	
DRAWN	9/8/97	ENGINEER	PME 5/19/97	
CHECKED	5/19/97			
REV	ECO	MODEL	SIZE	DRAWING NUMBER
B	02994	02X1	D	752-099
A	✓	02X1		
REV	ECO	MODEL	SCALE	DO NOT SCALE DWG
B	02994	02X1	FULL	SHEET 2 OF 2

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1