

APPLICATION		
NEXT ASS'Y	USED ON	VAR

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REVISIONS					
ZONE	REV	DESCRIPTION	ECN	DATE	APP'D
	A	REVISED PER ECR	22357	6/14/05	DM6/05
	B	UPDATE DRAWING	25017	9/19/06	MEM/06

Schedule Drawing
No modifications permitted without reference to the Notified Body

21869

- 4 SHIELDS TO BE EARTHED AT BARRIER ENDS.
- 3 THE INSTALLER SHALL INSURE THAT THE TRANSDUCER MOUNTING STRUCTURE IS AT THE SAME GROUNDING POTENTIAL AS THE BARRIER GROUND. TOTAL EARTH LOOP IMPEDANCE SHALL BE LESS THAN 1 OHM.
- 2 BARRIER WILL BE MOUNTED IN AN ENCLOSURE THE SUITABILITY OF WHICH WILL BE DETERMINED BY LOCAL AUTHORITIES.
- 1 ENTITY APPLICATION

BARRIER		I.S. APPARATUS
Voc/Uo	≤	V _{MAX} / UI
Isc/Io	≤	I _{MAX} / II
Ca/Co	>	CI + C _{CABLE}
La/Lo	>	LI + L _{CABLE}
Po	≤	PI (CENELEC ONLY)

BARRIERS WITHIN THE SPECIFIED LIMITATIONS ARE PERMITTED

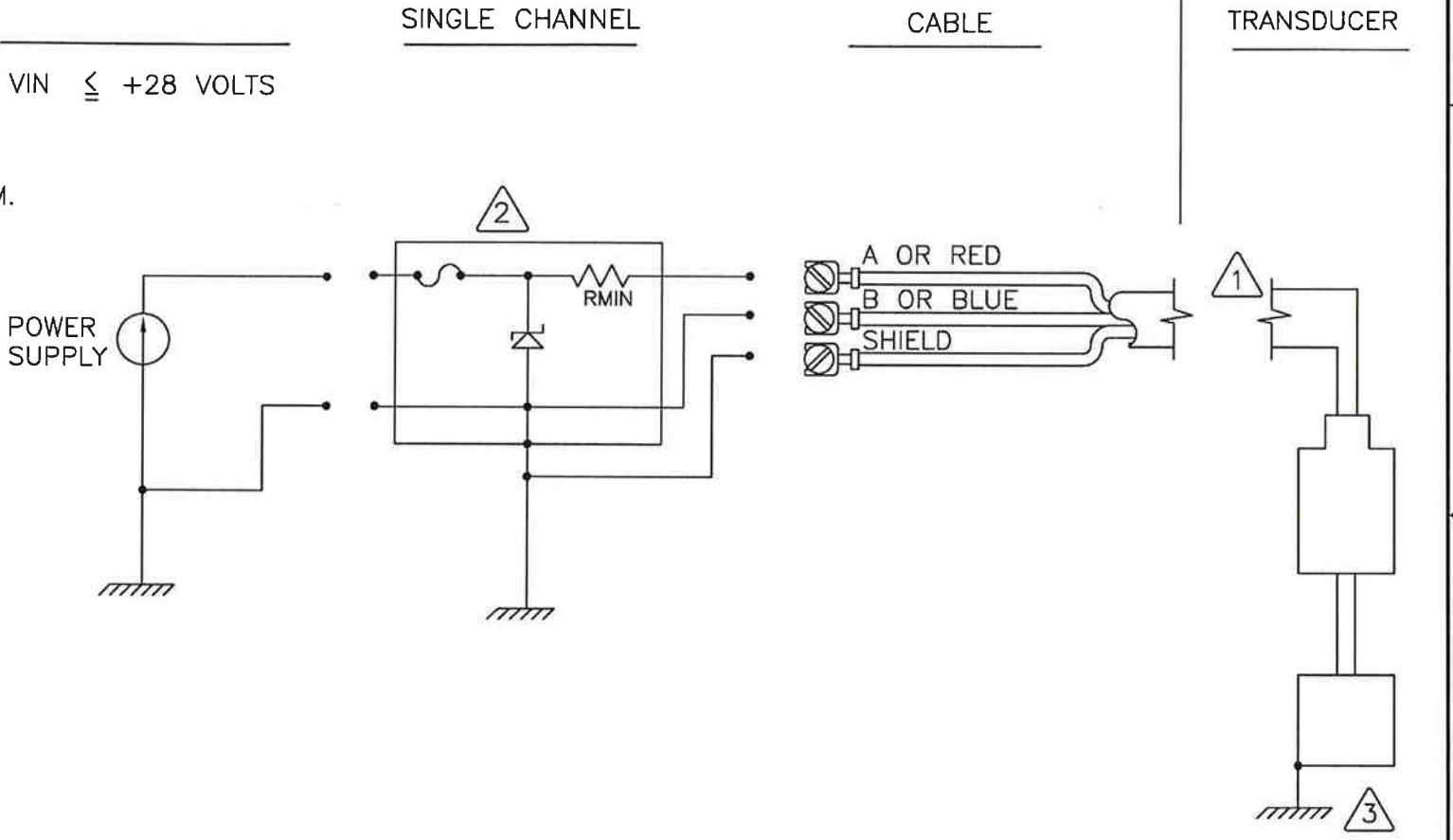
ENTITY PARAMETERS

- Ui = 30V
- li = 200 mA
- Pi = 1 W
- Ci = 5.0 nF
- Li = 0 μH

CERTIFIED BY THE APPROPRIATE APPROVAL AUTHORITY FOR CONNECTION TO THE FOLLOWING AREAS:

- ZONE 0
 - Exia IIC
 - AExia IIC
- DIV 1
 - CLASS I, GROUPS A,B,C,D
- ZONE 0
 - Exia IIC

VIN ≤ +28 VOLTS



NO CHANGES WITHOUT CSA/LCIE APPROVAL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
DECIMALS X ± .05
XX ± .01
XXX ± .005
ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005
HEX DIMENSIONS ARE:
< 0.5 +.000 / -.003
> 0.5 +.000 / -.005
INTERNAL THREAD DEPTH MIN
REMOVE ALL BURRS
SHARP = R.000 - R.003
DD016 REV. D 01/17/2003



DRAWN	ECB	11/6/06	MFG	RC	11-30-06
CHK'D	DM	11/6/06	ENGR	RF	9-22-06
APP'D	MEM	12/1/06			

CSA/LCIE APPROVAL
INTERCONNECTION

PCB PIEZOTRONICS
3425 WALDEN AVE. DEPEW, NY 14043
(716) 684-0001 EMAIL: SALES@PCB.COM

CODE IDENT. NO.	DWG. NO.
52681	21869
SCALE: FULL SHEET 1 OF 2	

APPLICATION		
NEXT ASS'Y	USED ON	VAR

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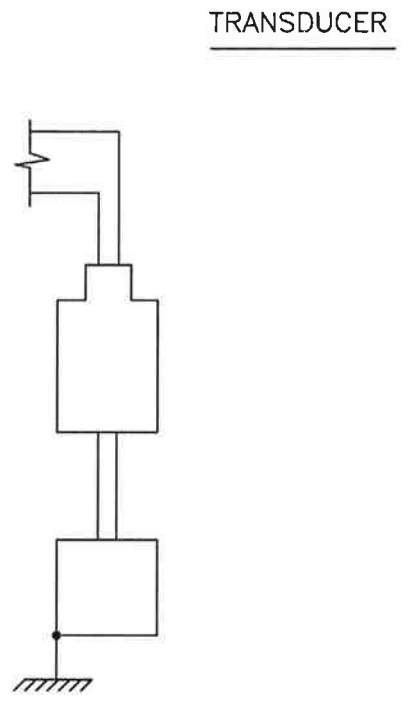
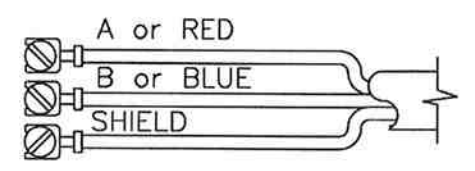
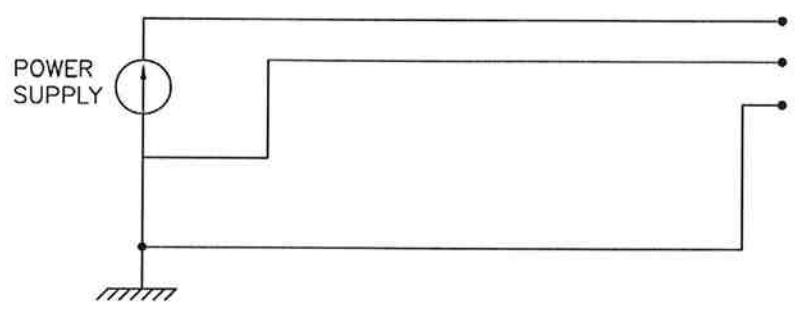
REVISIONS				
ZONE	REV	DESCRIPTION	ECN	DATE
		- SEE SHEET ONE -		
				APP'D <i>Dir 11/06</i>

Schedule Drawing
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21869

APPROVED
POWER SUPPLY/
SIGNAL CONDITIONER

NON-HAZARDOUS / SAFE AREA
OR DIV 2 / ZONE 2



4. FOR CANADIAN, DIVISION 2 AND ZONE 2 INSTALLATION, POWER SUPPLY MUST BE CSA CERTIFIED WITH ENTITY OUTPUT PARAMETERS FOR U.S DIVISION 2 AND ZONE 2 INSTALLATION, POWER SUPPLY MUST BE APPROVED BY NRTL WITH ENTITY OUTPUT PARAMETERS.

ENTITY APPLICATION

BARRIER	I.S. APPARATUS
$V_{oc}/U_o \leq$	V_{max} / U_i
$I_{sc}/I_o \leq$	I_{max} / I_i
$C_a/C_o >$	$C_i + C_{CABLE}$
$L_a/L_o >$	$L_i + L_{CABLE}$
$P_o \leq$	P_i (CENELEC ONLY)

ENTITY PARAMETERS:

- $U_i = 30$ V
- $I_i = 200$ mA
- $P_i = 1$ W
- $C_i = 5.0$ nF
- $L_i = 0$ μ H

- 3. MAXIMUM VOLTAGE OF POWER SUPPLY/SIGNAL CONDITIONER NEVER TO EXCEED 250 Vrms. NO CHANGES WITHOUT CSA/LCIE APPROVAL
- 2. FOR GUIDANCE ON CANADIAN INSTALLATION, REFER TO CEC PART I. FOR GUIDANCE ON U.S. INSTALLATION, INSTALL IN ACCORDANCE WITH NEC [ANSI/NFPA70] AND [ANSI/ISA RP12.6].
- 1. CERTIFIED BY THE APPROPRIATE APPROVAL AUTHORITY FOR CONNECTION TO THE FOLLOWING AREAS:

- ZONE 2
ExnL IIC, AExnA IIC T4
- DIV 2
CLASS I, GROUPS A, B, C, D
- ZONE 2
ExnL IIC
ExnA IIC

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
DECIMALS X \pm .05
XX \pm .01
XXX \pm .005
ANGLES \pm 2 DEGREES
FILLETS AND RADII .003 - .005
HEX DIMENSIONS ARE:
< 0.5 +.000 / -.003
> 0.5 +.000 / -.005
INTERNAL THREAD DEPTH MIN
REMOVE ALL BURRS
SHARP = R.000 - R.003
DD016 REV. D 01/17/2003



DRAWN	ECB	11/6/06	MFG	RC	11-30-06
CHK'D	DM	11/6/06	ENGR	RF	9-22-04
APP'D	MEM	12/1/06			

CSA/LCIE APPROVAL
INTERCONNECTION

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CODE IDENT. NO. 52681	DWG. NO. 21869
SCALE: FULL SHEET 2 OF 2	