1	CONFIDENTIAL AND PROPRIETARY REVISIONS							
	INFORMATION IS C HEREIN AND ML	CONTAINED						
	HANDLED ACCOR	RDINGLY			<u>лтг</u>	CHG. NO.		DATE
			COMM CABL UPDA TABL	NOTE 8; UPDA UNICATOR; UA E PARAMATER TE OUTPUT C E PG.4; UPDA E PARAMATER	PDATE RS PG.3 ODE TE		T.J.L.	9/6/13
		1	AND	TE CAPACITA Inductance Maters, PGS	CABLE	RTC1058148	J <b>.</b> B.	10/22/13
APPROVALS FOR OUTPUT CODE A I.S. ENTITY PARAMETERS SHEETS 2 OUTPUT CODE A (4-20 mA HART) I.S. SEE SHEETS 3								
<ul> <li>TO ASSURE AN INTRINSICALLY SAFE SYSTEM, THE TRANSMITTER AND BARRIER MUST BE WIRED IN ACCORDANCE WITH THE BARRIER MANUFACTURER'S FIELD WIRING INSTRUCTIONS AND THE APPLICABLE CIRCUIT DIAGRAM.</li> <li>WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION I.</li> <li>AVERTISSEMENT - RISQUE D'EXPLOSION - LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION I.</li> </ul>								NG
								tation)
	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES [mm]. REMOVE ALL BURRS AND	CONTRACT NO.		EMERSON Process Management		OSEMOU et Boulevard • Chanhassen, M	NT • IN 55317 USA	
	SHARP EDGES. MACHINE SURFACE FINISH 125 	DR. Myles Lee M Chk'd APP'D.	Liller 11/2/1		X OF 305	I.S. CSA	FO	7
	•VV - •DE [N•···			-				
AC	.XXX ± .010 [0,25] FRACTIONS ± 1/32 ± 2°	APP'D. GOVT.		SIZE FSCM NO	DWG NO.	Ø3151	-1316	5

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		$\forall$					
	REVISIONS						
_	REV	DESCRIPTION	CHG.NO.	APP'D	DATE		
_	AC						

## ENILLY LUNLEPT APPRUVALS

THE ENTITY CONCEPT ALLOWS INTERCONNECTION OF INTRINSICALLY SAFE APPARATUS TO ASSOCIATED APPARATUS NOT SPECIFICALLY EXAMINED IN COMBINATION AS A SYSTEM. THE APPROVED VALUES OF MAX. OPEN CIRCUIT VOLTAGE (Voc) AND MAX. SHORT CIRCUIT CURRENT (Isc) AND MAX.POWER (Voc X Isc/4), FOR THE ASSOCIATED APPARATUS MUST BE LESS THAN OR EQUAL TO THE MAXIMUM SAFE INPUT VOLTAGE (Vmax), MAXIMUM SAFE INPUT CURRENT (Imax), AND MAXIMUM SAFE INPUT POWER (Pmax) OF THE INTRINSICALLY SAFE APPARATUS. IN ADDITION, THE APPROVED MAX. ALLOW-ABLE CONNECTED CAPACITANCE (Ca) OF THE ASSOCIATED APPARATUS MUST BE GREATER THAN THE SUM OF THE INTERCONNECTING CABLE CAPACITANCE AND THE UNPROTECTED INTERNAL CAPACITANCE (C1) OF THE INTRINSICALLY SAFE APPARATUS, AND THE APPROVED MAX, ALLOWABLE CONNECTED INDUCTANCE (La) OF THE ASSOCIATED APPARATUS MUST BE GREATER THAN THE SUM OF THE INTERCONNECTING CABLE INDUCTANCE AND THE UNPROTECTED INTERNAL INDUCTANCE (L1) OF THE INTRINSICALLY SAFE APPARATUS.

FOR OUTPUT CODE A MODEL 3051S CLASS I, DIV. 1, GROUPS A, B, C AND D

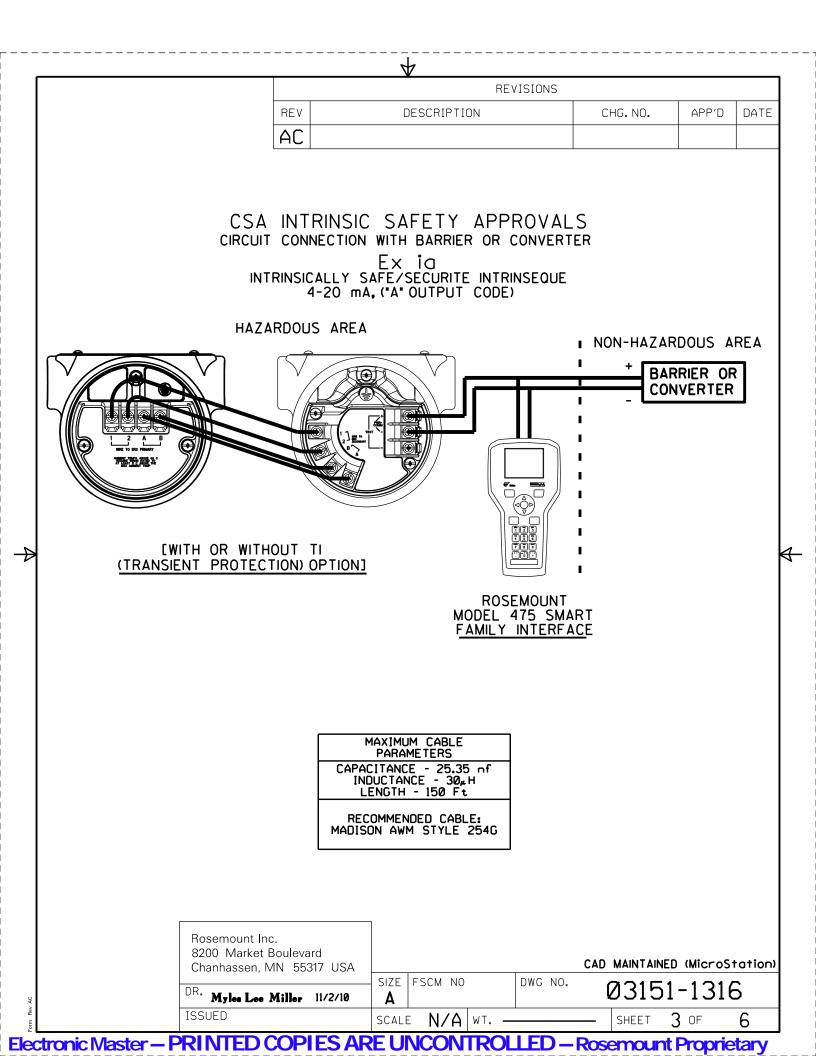
V <sub>MAX</sub> = 30V	V <sub>OC</sub> IS LESS THAN OR EQUAL TO 30V
I <sub>MAX</sub> = 300mA	I <sub>SC</sub> IS LESS THAN OR EQUAL TO 300mA
C1 = 12nF	C <sub>A</sub> IS GREATER THAN 12nF + Ccable
$L_1 = 33\mu H$	L <sub>A</sub> IS GREATER THAN 33 $\mu$ H + Lcable

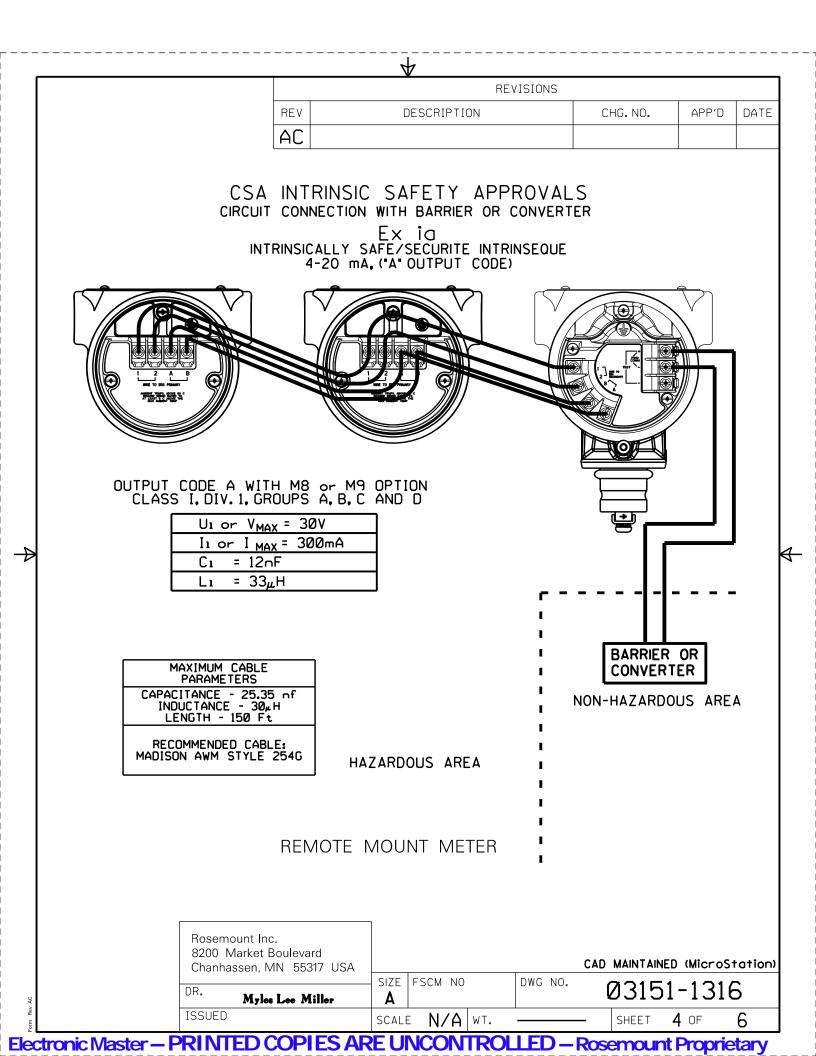
## NOTE: ENTITY PARAMETERS LISTED APPLY ONLY TO ASSOCIATED APPARATUS WITH LINEAR OUTPUT.

Rosemount Inc. 8200 Market Boulevard Chanhassen, MN 55317 USA			CAD MAINTAINED	(MicroStation)
	SIZE FSCM NC	DWG NO.	001E1	1010
DR. Myles Lee Miller	A		Ø3151 <sup>.</sup>	-1316
ISSUED	SCALE N/A	WT	— SHEET 2	OF 6

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			$\square$				
	R	EV	DESCRIPTION	REVISIONS	CHG.NO.	APP'D	DATE
	f	AC					
DEVICE	4-20		A" OUTPUT C	ODE)		VED FO S I, DIV.I	
CSA APPROVE SAFETY BARRIE		* 330 0 * 28 300 0 25 200 0	V OR LESS OHMS OR MORE V OR LESS OHMS OR MORE V OR LESS OHMS OR MORE V OR LESS HMS OR MORE		GROUPS	A, B, C	<b>.</b> D
3A2-13D-CG	VERTER 3, 2AI-I3V-CGB, 3, 3A2-I2D-CGB, B, 3AD-I3I-CGB, B, 2AS-I2I-CGB,				GROUP	S B, C,	D
CSA APPROVE SAFETY BARRIE		30 150 0	V OR LESS HMS OR MORE		GROU	IPS C,D	
	Rosemount Inc.	loverd					
	8200 Market Bou Chanhassen, MN		SIZE FSCM NO	DWG NO.	CAD MAINTAINED Ø3151		

		$\forall$					
		REVISIONS					
	REV	DESCRIPTION	CHG.NO.	APP'D	DATE		
	AC						
	OTES:						
1.		ATUS MUST BE INSTALLED IN ACCO	RDANCE WITH	4			

- 2. CSA APPROVED ASSOCIATED APPARATUS MUST MEET THE FOLLOWING PARAMETERS: Voc LESS THAN OR EQUAL TO (Vmax AND Isc LESS THAN OR EQUAL TO (Imax).
- 3. THE MAXIMUM NON-HAZARDOUS AREA VOLTAGE MUST NOT EXCEED 250V.
- 4. THE INSTALLATION MUST BE IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.
- 5. CAUTION: USE ONLY SUPPLY WIRES SUITABLE FOR 5°C ABOVE SURROUNDING TEMPERATURE.
- 6. WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
- 7. THIS PRODUCT MEETS THE DUAL SEAL REQUIREMENTS OF ANSI/ISA 12.27.01.NO ADDITIONAL PROCESS SEALING IS REQUIRED. THE DUAL SEAL PROCESS TEMPERATURE RANGE IS -50°C TO 315°C.FOR THE IN-SERVICE LIMITS APPLICABLE TO A SPECIFIC MODEL, SEE "PROCESS TEMPERATURE LIMITS" IN APPENDIX "A" OF THE PRODUCT MANUAL.
- 8. TEMPERATURE CODE T3C AT 70°C MAXIMUM OPERATING TEMPERATURE.

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Rosemount Inc. 8200 Market Boulevard Chanhassen, MN 55317 USA DR. Myles Lee Miller			CAD	MAINTAIN	IED (Micro	oStation)
		FSCM NO	DWG NO.	0315	1-13	16
ISSUED	SCAL	E <b>N/A</b> WT.	·	SHEET	6 OF	6

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