CONFIDENTIAL AND PROPRIETARY INFORMATION IS CONTAINED		REVISIONS				
HEREIN AND MUST BE HANDLED ACCORDINGLY	REV	DESCRIPTION	CHG. NO.	APP'D	DATE	
	AE	UPDATE FOR HART 7	RTC1Ø52Ø64	D.R.S.	10/5/11	
	AF	ADD 3Ø51G	RTC1Ø58799	J.H.	1/9/14	
	AG	UPDATE	RTC1Ø67215	M.K.B.	1/26/17	

3051 C/CA/T/L/G PRESSURE TRANSMITTERS

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.

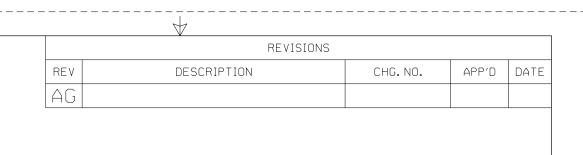
WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.

AVERTISSEMENT - RISQUE D'EXPLOSION - LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2.

CAD MAINTAINED (MicroStation) UNLESS OTHERWISE SPECIFIED CONTRACT NO. DIMENSIONS IN INCHES [mm].
REMOVE ALL BURRS AND SHARP EDGES. MACHINE SURFACE FINISH 125 DR.

M: **Emerson Automation Solutions EMERSON** 6021 Innovation Dr. • Shakopee, MN 55372 USA TITLE Mike Dobe 08/27/90 I.S. CSA, US & -TOLERANCE-CHK'D 3051 .X ± .1 [2,5] + ()R.XX ± .02 [0,5] APP'D. GLEN MONZO 8/31/90 $.XXX \pm .010 [0,25]$ SIZE FSCM NO DWG NO. ANGLES **FRACTIONS** 03031-1024 ± 2° Α ± 1/32 Rev APP'D. GOVT. DO NOT SCALE PRINT SCALE N/AI SHEET 1 OF WT.

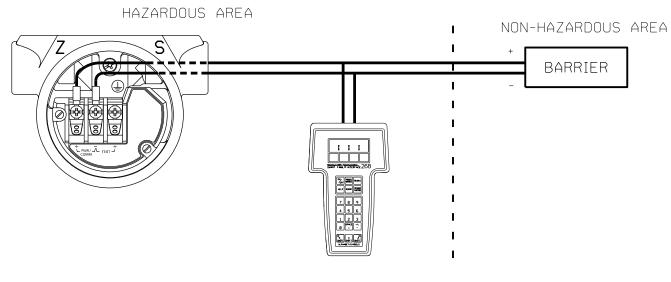
Electronic Master - PRINTED COPIES ARE UNCONTROLLED - Rosemount Proprietary



INTRINSIC SAFETY APPROVALS

CIRCUIT CONNECTION WITH BARRIER

Ex 1a Intrinsically safe/securite intrinseque



OPTIONAL ROSEMOUNT MODEL 275/375/475 SMART F<u>AMILY INTERFAC</u>E

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CAD MAINTAINED (MicroStation)

DR. **Mike Dobe** 08/27/90

ISSUED

SIZE FSCM NO A DWG NO.

03031-1024

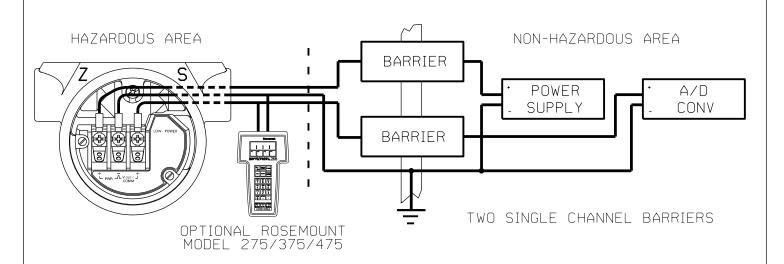
SCALE N/A WT. — SHEET 2 OF 6

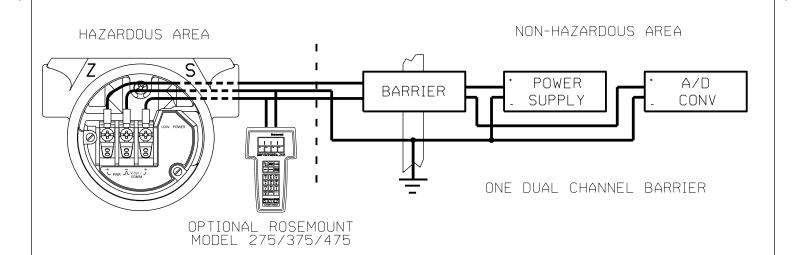
	V			
	REVISIONS			
REV	DESCRIPTION	CHG. NO.	APP'D	DATE
AG				

INTRINSIC SAFETY APPROVALS

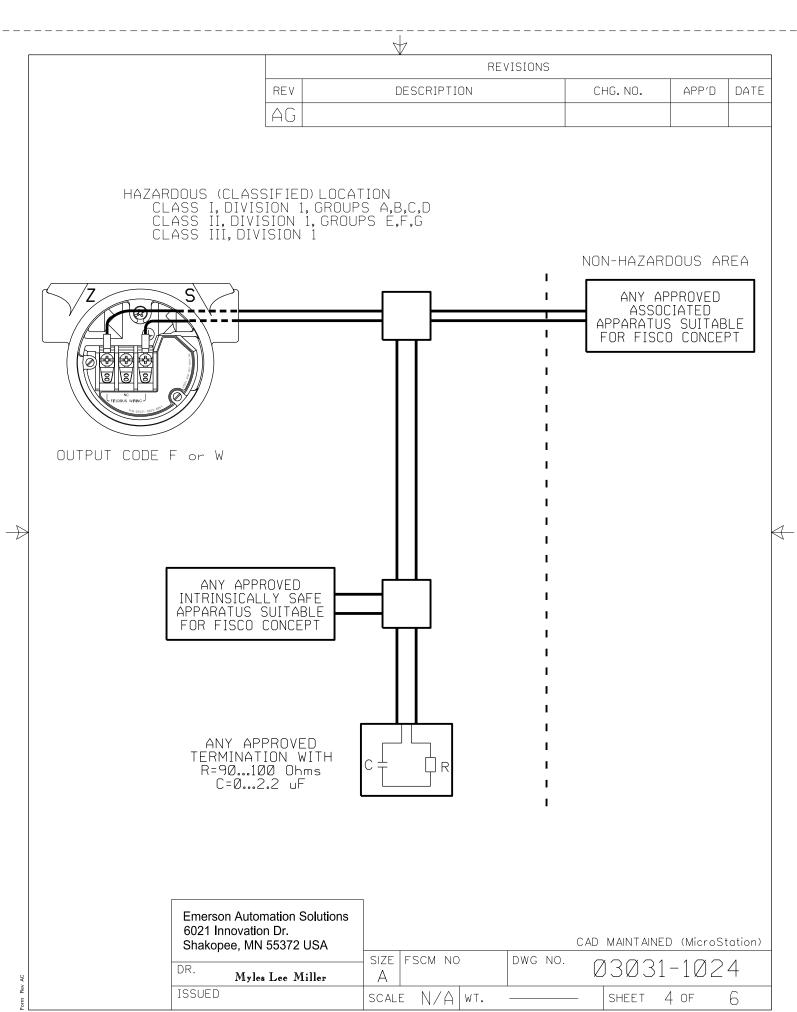
3051C LOW POWER CIRCUIT CONNECTION WITH INTRINSIC SAFETY BARRIERS

Ex 1a Intrinsically safe/securite intrinseque LOWPOWER, ("M" OUTPUT CODE)





Emerson Automation Solutions 6021 Innovation Dr. Shakopee, MN 55372 USA			CAD MAINTAINED (MicroStation)
	SIZE FSCM NO	DWG NO.	M3M31-1M24
DR. SANDI MANSON	A		W3W31-1W24
ISSUED	SCALE N/A WT.		- SHEET 3 OF 6



	REVISIONS			
REV	DESCRIPTION	CHG. NO.	APP'D	DATE
AG				

3051 I.S. ENTITY PARAMETERS. (OUTPUT CODE A,F,M or W)

FOR OUTPUT CODE A

CLASS I, DIV 1, GROUPS A, B, C AND D

0200 1,01, 1,0.	100, 0, 1, 1, 2, 0, 1, 1, 2
V _{MAX} = 3ØV	V _{oc} is less than or equal to 30V
I _{MAX} = 200mA	I _{sc} is less than or equal to 200ma
P _{MAX} = 1 WATT	(Voc x Isc) is less than or equal to 1 watt
$C_{\rm I}$ = .01 μ f	C _a is greater than .01 _{\mu} f + c cable
$L_{\rm I}$ =10 μ H	L _A IS GREATER THAN 10μH + L CABLE

FOR OUTPUT CODE F or W

CLASS I, DIV 1, GROUPS A, B, C AND D

V _{MAX} = 3ØV	V _{OC} IS LESS THAN OR EQUAL TO 30V
I _{MAX} = 300mA	I _{sc} is less than or equal to 300ma
P _{MAX} = 1.3 WATT	(Voc x Isc) is less than or equal to 1.3 watt
$C_{\rm I} = \emptyset \mu f$	C_A is greater than Ø μf + C cable
$L_{\rm I} = \emptyset \mu H$	L_A is greater than \emptyset_\muH + L cable

FOR OUTPUT CODE F, with FISCO

CLASS I, DIV 1. GROUPS A, B, C AND D

$V_{MAX} = 17.5V$	
I _{MAX} = 380mA	
$P_{MAX} = 5.32 WATT$	
C _I ≤ 5nF	
$L_{\rm I} \leq 10\mu H$	

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

Emerson Automation Solutions 6021 Innovation Dr. Shakopee, MN 55372 USA					CAD	MAINTAIN	IED (Mi	croStation)
NR .	SIZE	FSCM N)	DWG NO.	7	1303	1-10	7124
JON STEFFENS	A				~	,	/	O
ISSUED	SCAL	e N/A	WT.		_	SHEET	5 of	6

	<u> </u>			
	REVISIONS			
REV	DESCRIPTION	CHG. NO.	APP'D	DATE
AG				
				I.

FOR OUTPUT CODE M

CLASS I, DIV 1, GROUPS A AND B

V _{MAX} = 3ØV	V _T OR V _{OC} IS LESS THAN OR EQUAL TO 30V
$I_{MAX} = 165mA$	I _T OR I _{SC} IS LESS THAN OR EQUAL TO 165mA
P _{MAX} = 1 WATT	(VTX IT) OR (Voc x Isc) IS LESS THAN OR EQUAL TO 1 WATT
$C_{\rm I} = .042\mu f$	C _A IS GREATER THAN .042μf
L _I =10μH	L _A IS GREATER THAN 10μH

FOR T1 OPTION:

L _T =0.75mH	L _a IS GREATER THAN 0.75mH	
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CLASS I, DIV 1, GROUPS C AND D

$V_{MAX} = 30V$	V _T OR V _{OC} IS LESS THAN OR EQUAL TO 30V
$I_{MAX} = 225mA$	I _T OR I _{SC} IS LESS THAN OR EQUAL TO 225mA
P _{MAX} = 1 WATT	(VTX IT) OR (Voc x Isc) IS LESS THAN OR EQUAL TO 1 WATT
$C_{\rm I}$ = .042 μ f	C _A IS GREATER THAN .042μf
L _I =10μH	L_A is greater than 10 μ H

FOR TI OPTION.

1 011 11 01 11011	
L _I =0.75mH	LA IS GREATER THAN 0.75mH

Emerson Automation Solutions 6021 Innovation Dr. Shakopee, MN 55372 USA

CAD MAINTAINED (MicroStation)

DR. MIKE DOBE ISSUED SCALE N/A WT.

SIZE FSCM NO А

DWG NO.

03031-1024

6 of SHEET