

_	8	7		6		5	4		3	
	This document contains information proprietary to Rosemount Analytical, and is not to be made available to those who may compete with Rosemount Analytical.									
D										
	12. NO REVISION TO DRAWING WIT	HOUT PRIOR FM APPRC	OVAL.							
	11. THE ASSOCIATED APPARATUS	MUST BE FM APPROVED).							
	10. CONTROL EQUIPMENT CONNEC MORE THAN 250 Vrms OR Vdc.	TED TO ASSOCIATED A	PPARATUS MUS	T NOT USE OR GEN	NERATE					
	9. ASSOCIATED APPARATUS MANU WHEN INSTALLING THIS EQUIPM		TION DRAWING I	MUST BE FOLLOWE	ED					
•	8. THE ENTITY CONCEPT ALLOWS INTERCONNECTION OF INTRINSICALLY SAFE APPARATUS WITH ASSOCIATED APPARATUS WHEN THE FOLLOWING IS TRUE:						r			
С	FIELD DEVICE INPUT ASSOCI	ATED <u>APPARATUS OUTF</u> Vt OR Uo;					GAS GROUPS	OUTPUT PARAMETE	La	
	Imax OR li 📃 Isc, I	t OR lo;					A, B	(uF) 10.63	(mH) 4.28	Vt
	Pmax OR Pi ≥ Po; Ci+ C cable; ≤ Ca, C Li+ L cable. ≤ La, L	Ct OR Co t OR Lo					C		17.9	lt
							D	10,000	34.9	Po
	7. RESISTANCE BETWEEN INTRIN LESS THAN 1.0 Ohm.	SICALLY SAFE GROUND	AND EARTH GR	OUND MUST BE						
	6. DUST-TIGHT CONDUIT SEAL MU CLASS III ENVIRONMENTS.	IST BE USED WHEN INS	TALLED IN CLAS	S II AND				5091 0	TABLE III	METERS
	5. SENSORS SHALL MEET THE RE	QUIREMENTS OF SIMPL	E APPARATUS A	S DEFINED					IAL TERMINALS TE	-
	IN ANSI/ISA RP12.06.01 AND THE NOR STORE MORE THAN 1.5V, 0 THAT DOES NOT DISSIPATE MO	NEC, ANSI/NFPA 70. TH .1A, 25mW OR A PASSIV	EY CAN NOT GEI E COMPONENT				MODEL NO. 5081-G-HT	Vmax (Vdc) 30	Imax (mA) 200	Pm
В	4. INSTALLATION SHOULD BE IN A "INSTALLATION OF INTRINSICAL (CLASSIFIED) LOCATIONS" AND	CCORDANCE WITH ANS	I/ISA RP12.06.01 HAZARDOUS						1	
	3. INTRINSICALLY SAFE APPARAT AND ASSOCIATED APPARATUS THE FOLLOWING REQUIREMEN (Imax) OF THE INTRINSICALLY S GREATER THAN THE VOLTAGE WHICH CAN BE DELIVERED BY T IN ADDITION, THE MAXIMUM UNI INDUCTANCE (LI) OF THE INTRIN	(SAFETY BARRIER) SHAL TS: THE VOLTAGE (Vmax AFE APPARATUS MUST I (Voc OR Vt) AND CURREN THE ASSOCIATED APPAR PROTECTED CAPACITAN ISICALLY SAFE APPARA	LL MEET () AND CURRENT BE EQUAL TO OF NT (Isc OR It) RATUS (SAFETY I NCE (Ci) AND TUS, INCLUDING	R BARRIER).						
	INTERCONNECTING WIRING, ML CAPACITANCE (Ca) AND INDUCT TO THE APPARATUS. (REF. TAB	ANCE (La) WHICH CAN E		NECTED						
	2. THE CAPACITANCE AND INDUC SENSOR TERMINALS MUST NOT WHERE Ca <u>→</u> Ci (SENSOR) + C c La <u>→</u> Li (SENSOR) + L c	EXCEED THE VALUES Stable;								
A	1. ANY SINGLE SHUNT ZENER DIC HAVING THE FOLLOWING OUTP SUPPLY/SIGNAL TERMINALS TB	UT PARAMETERS:	PPROVED BY FM							
	Voc OR Vt GREATER THAN 13 V Isc OR It NOT GREATER THAN 20 Pmax NOT GREATER THAN 0.9 V	00 mA	N 30 V							
	NOTES: UNLESS OTHERWISE SPECIFIE	D								
L	8	7		6		5	4		3	

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D 1400227

С

В

А

TABLE II

UT TERS	MODEL 5081-G-HT TB1-1 THRU 12
	6.51 V
	86.8 mA
	141.27 mW

2

nax (W)	Ci (nF)	Li (mH)		
0.9	27.9	0		

D DWG NO. SIZE 1400227 A SCALE: NONE TYPE SHEET 2 OF 2 1
00.94

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