



CLASS I, DIV. 1, GRP. A,B,C,D  
 CLASS I ZONE 0 GRP IIC

FOR UNITS WITH 1/2"NPT(M)  
 ELECTRICAL CONNECTION  
 (CF OPTION)  
 CLASS I, DIV. 1, GRP A,B,C,D  
 CLASS II, DIV. 1, GRP E,F,G  
 CLASS III  
 CLASS I ZONE 0 GRP IIC

ENTITY PARAMETERS  
 $V_{max}$  or  $U_i=28V$   
 $I_{max}$  or  $I_i=100mA$   
 $C_i=27.2nF$   
 $L_i=0$   
 Temp. code, T5 at  $T_a=85C$

SHUNT SWITCH (NC OPTION)  
 $V_{oc} = 5.9V$   
 $I_{sc} = 6mA$   
 $C_a = 40\mu F$   
 $L_a = 1000mH$

THIS IS A CONTROLLED DRAWING  
 AND MAY NOT BE CHANGED WITHOUT  
 ENGINEERING AUTHORIZATION

1. INSTALLATION MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, PART I, OR THE NATIONAL ELECTRICAL CODE, AS APPLICABLE FOR COUNTRY IN USE.
2. ASSOCIATED APPARATUS USED FOR THE EXC+/EXC- CIRCUIT MUST HAVE A LINEAR OUTPUT AND BE CSA CERTIFIED OR FM APPROVED, AS APPLICABLE FOR COUNTRY IN USE, WITH ENTITY PARAMETERS THAT MEET THE FOLLOWING CONDITIONS:  
 $V_{oc}$ , or  $U_o \leq V_{max}$ , or  $U_i$   
 $I_{sc}$ , or  $I_o \leq I_{max}$ , or  $I_i$   
 $C_a$ , or  $C_o \leq C_i + C_{cable}$   
 $L_a$ , or  $L_o \leq L_i + L_{cable}$
3. SHUNT SWITCH WIRING IS INTRINSICALLY SAFE AND IS FOR CONNECTION TO A VOLTAGE FREE CONTACT, OR CSA CERTIFIED OR FM APPROVED, AS APPLICABLE FOR COUNTRY IN USE, RELAY CONTACT BARRIER WITH A VOLTAGE FREE CONTACT.
4. RESISTANCE BETWEEN IS GROUND AND EARTH GROUND MUST BE LESS THAN 1 OHM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	REVISONS				GP:50 Aerospace Div. 2770 LONG ROAD GRAND ISLAND, NY 14072	
	LET	DATE	BY	ECN	CAGE CODE: ON8Y7	TEL. NO. (716)773-9300 FAX NO. (716)773-5019
FRACTIONS $\pm 1/64$ DECIMALS: TOLERANCES: .XX $\pm .01$ .XXX $\pm .005$ ANGLES $\pm 1/2$	1	10/01/07	AN	455	SCALE DRAWN: NA SCALE: NA	MATERIAL NA
63 MACHINE FINISH (ALL SURFACES) REMOVE BURRS & BREAK SHARP EDGES .015 MAX. MACHINE FILLETS TO .015 R MAX. ALL DIAMETERS TO BE CONCENTRIC WITHIN .010 T.I.R. CHAMFER ALL MALE THREADS 45°±5' TO MINOR DIAMETER C'SINK ALL FEMALE THREADS 90°±10' TO MAJOR DIAMETER	2	6/3/11	MM	-	DESIGNER DW	REVIEW DATE
					APPROVED GS 11/17/11	DATE DW 03/12/07
					TITLE: FM/CSA INTRINSIC SAFETY MODELS 370 I/GI	DRAWING NO. 8C1-56.00-2
						REV. 2