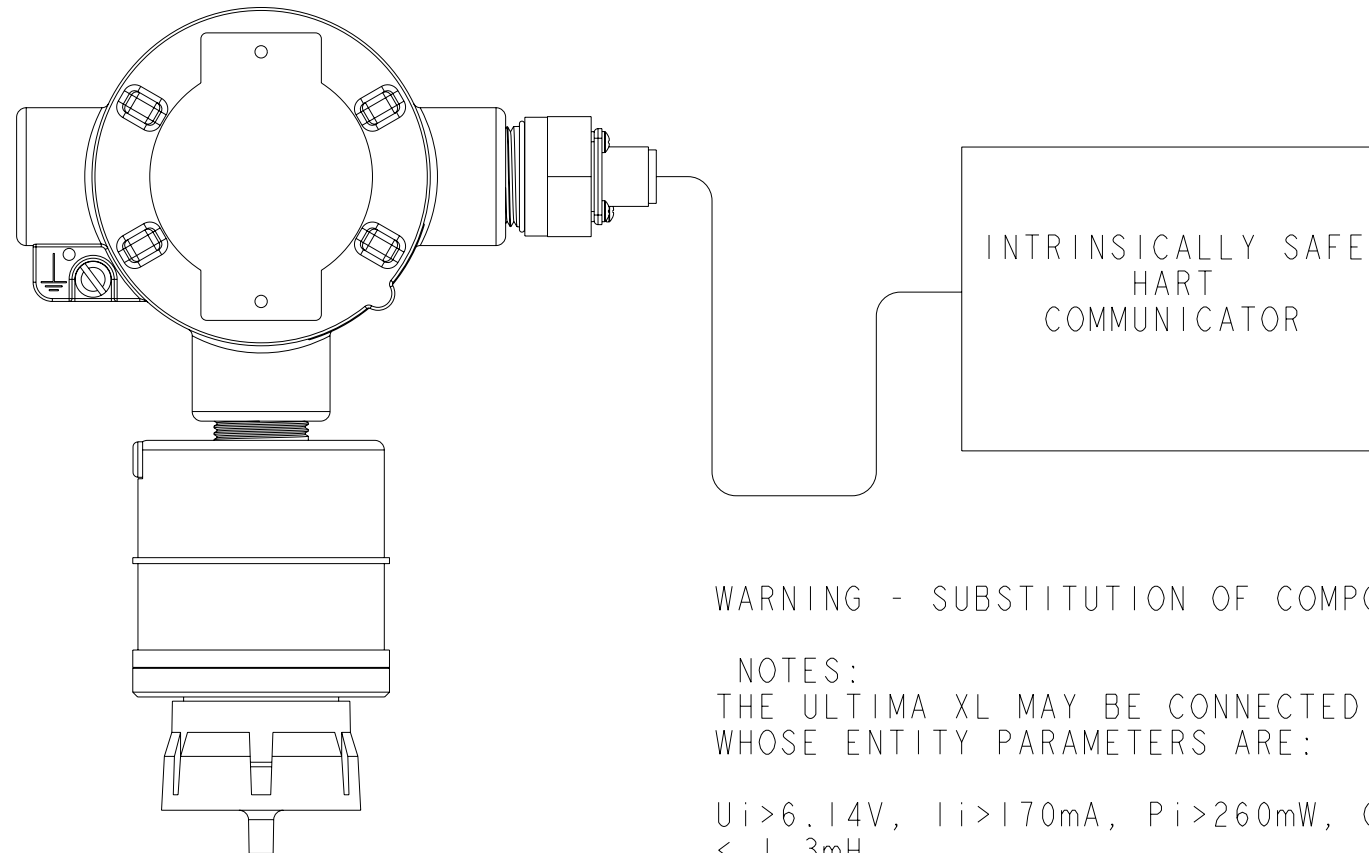


HAZARDOUS (CLASSIFIED) LOCATION
 CLASS I, DIVISION 1, GROUPS A, B, C AND D;
 CLASS I, ZONE 1, GROUPS IIC, IIB AND IIA



ULTIMA XL

WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY

NOTES:
 THE ULTIMA XL MAY BE CONNECTED TO ANY HART COMMUNICATOR
 WHOSE ENTITY PARAMETERS ARE:

$U_i > 6.14V$, $I_i > 170mA$, $P_i > 260mW$, $C_i + C_{cable} < 34\mu F$ AND $L_i + L_{cable} < 1.3mH$

WIRING METHODS MUST BE IN ACCORDANCE WITH THE COUNTRY OF USE.
 THE MAXIMUM VOLTAGE U_m THAT CAN BE CONNECTED WITHOUT INVALIDATING
 THE INTRINSIC SAFETY IS 250 V rms. NOTE THE ULTIMA XL IS INTENDED
 TO ONLY BE POWERED FROM AN 8-30 VDC POWER SUPPLY.

AUTHORIZED COUNTRY	MSA	MINE SAFETY APPLIANCES CO. PITTSBURGH, PA 15230, USA	THIS DRAWING IS THE PROPERTY OF MSA AND IS MADE AVAILABLE TO YOU IN CONFIDENCE AND SUBJECT TO THE FOLLOWING: NO PERMISSION IS GRANTED TO PUBLISH, USE, REPRODUCE, TRANSMIT OR DISCLOSE THIS DRAWING, OR ANY INFORMATION CONTAINED THEREIN TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF MSA EXCEPT FOR THE MANUFACTURE OF ARTICLES FOR MSA. SCHUTZVERMERK NACH DIN 34 BEACHTEN. MSA AUER GmbH.	DO NOT SCALE DWG.
MSA STANDARD SHOP PRACTICES APPLY			APPROVAL AGENCY CODE: YES NIOSH ATTR. DOC.: .	
CODE SYMBOLS		JOB NO. 30007082 PH0730	FM APPROVALS, CONTROL DRAWING, ULTIMA XL	
CRITICAL	▲	DRAWN BY WJE DATE 2-15-2007		
MAJOR A	▲	CHECKED BY D.MAST 3-23-07		
MAJOR B	▲	PROJ. ENGR. W.BENNETT 3-23-07		
100 % INSPECTION	▲	QUALITY ASSURANCE	CADD REF: SK3098-1057	
TOLERANCES UNLESS OTHERWISE SPECIFIED				
FRACTIONAL	± 1/64	MANUFACTURING	SK3098-1057	
2 PL DEC.	± 0.01			
3 PL DEC.	± 0.005			
ANGULAR	± 1 deg.			
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES			B .	SHEET 1 OF 1