

3.91

—SEE NOTE 3

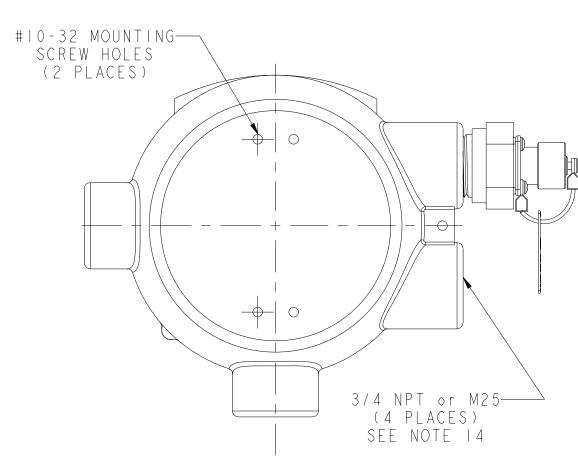
SENSOR INLET

MOUNT WITH SENSOR INLET

FACING DOWN

SEE NOTE 3-

CURRENT DRAW FOR 3-WIRE UNITS with RELAYS							
Gas Type	Sensor Output	DC Voltage Supply	Max Current Draw				
Oxygen or Toxic	3 Wire	24 VDC	100 mA				
Combustible	3 Wire	24 VDC	210 mA				



CUSTOMER	 	
P.O. NO		
MSA NO	 	
LOCATION	 	
TAG NO.		

CLEARANCE HOLES— FOR /4-20 or M6 SCREWS (4 PLACES)		- 5. 00 — [29. 540] —	-		
6.724 [170.790] 2.880 [73.152]					7.474
	1		# 1 0 - 3	ES FOR 32 UNC- CREWS	2 A

REVISIONS

JUN 24 2008

DELETED "D2" AND ADDED "IEC" TO ATO

OCT 29 2008

ECO-70000002331A

10-29-2008

OPTIONAL MOUNTING BRACKET METHOD (PART NUMBER 10047561)

CABLE LENGTH AND WIRE SIZE FOR UNITS WITHOUT INTERNAL RELAYS (See value in ATO Box 6 to Identify Relay configuration)						
Gas Type	Sensor Output	DC Voltage Supply	Wire Size		T/with HART	Max Load Resistance
Oxygen or Toxic				Feet 23,000	Meters 7,010	500 Ohms
Oxygen or Toxic			1.5mm ²	8,800	,	600/500 Ohms
oxygen or roxre	- WITT		1.0mm ²	2,500	762	500 Ohms
Combustible	 3 Wire	24 VDC	1.5mm ²	4,200	1,200	500 Ohms
			3.0mm ²	10,000	3,000	500 Ohms

CABLE LENGTH AND WIRE SIZE FOR UNITS WITH INTERNAL RELAYS (See value in ATO Box 6 to Identify Relay configuration)

(See value in ATO Box o to identity fieldy configuration)							
Gas Type	Sensor [DC Voltage	Wire Size	Max Cable Length			
. , , , ,	Output	Supply		Feet	Meters	Resistance	
Oxygen or Toxic	3 Wire	24 VDC	1.5mm ²	8,000	2,400	500 Ohms	
Combustible	3 Wire	24 VDC	1.5mm ²	3,000	900	500 Ohms	

NOTES: 1. INSTRUMENT HOUSING IS MADE OF 316 STAINLESS STEEL.
2. DIMENSIONS SHOWN IN INCHES (MILLIMETERS).
3. CHECK TAG FOR AREA CLASSIFICATION.

ANGULAR ± I deg.

SEE MSA STANDARD SHOP
PRACTICES FOR DRILLED
HOLE TOLERANCES

(CONTINUED	ON SHEET 2)			
AUTHOR I ZED COUNTRY		INE SAFETY APPLIANCES CO. I	THIS DRAWING IS THE PROPERTY OF MSA AND CONFIDENCE AND SUBJECT TO THE FOLLOWING TO PUBLISH, USE, REPRODUCE, TRANSMIT OF ANY INFORMATION CONTAINED THEREIN TO	: NO PERMISSION IS GRANTED DO OR DISCLOSE THIS DRAWING, NOT O OTHERS WITHOUT THE PRIOR SCALE
,	MSA STANDARD SHOP		VRITTEN CONSENT OF MSA EXCEPT FOR THE MANU SCHUTZVERMERK NACH DIN 34 BEACHTEN. MSA AU	FACTURE OF ARTICLES FOR MSA. DWG.
	CODE SYMBOLS	JOB NO. 30009701 PH0718	APPROVAL AGENCY CODE: YES NIOSH A	TTR. DOC.:
	CRITICAL /	DRAWN BY DATE		
	MAJOR A MINOR	GJT 6-11-200	8	
	MAJOR B A	CHECKED BY S.TURNER 6-20-0	INSTALLATION	N OUTLINE.
	100 % INSPECTION 🛆	PROJ. ENGR.		
	TOLERANCES UNLESS	C.LEHECKA 6-18-0	EUROPEAN, U	III TIMA YE I
	OTHERWISE SPECIFIED	QUALITY ASSURANCE	LONGI LAN,	
	FRACTIONAL \pm 1/64	J.DANNARDT 6-18-0	8	
	2 PL DEC. ± 0.01	MANUFACTURING		
	3 PL DEC. ± 0.005	A.POLOCHAK 6-18-0	8 CADD REF: SK3015-1030	SCALE: 0.625

SK3015-1030

1 OF 3

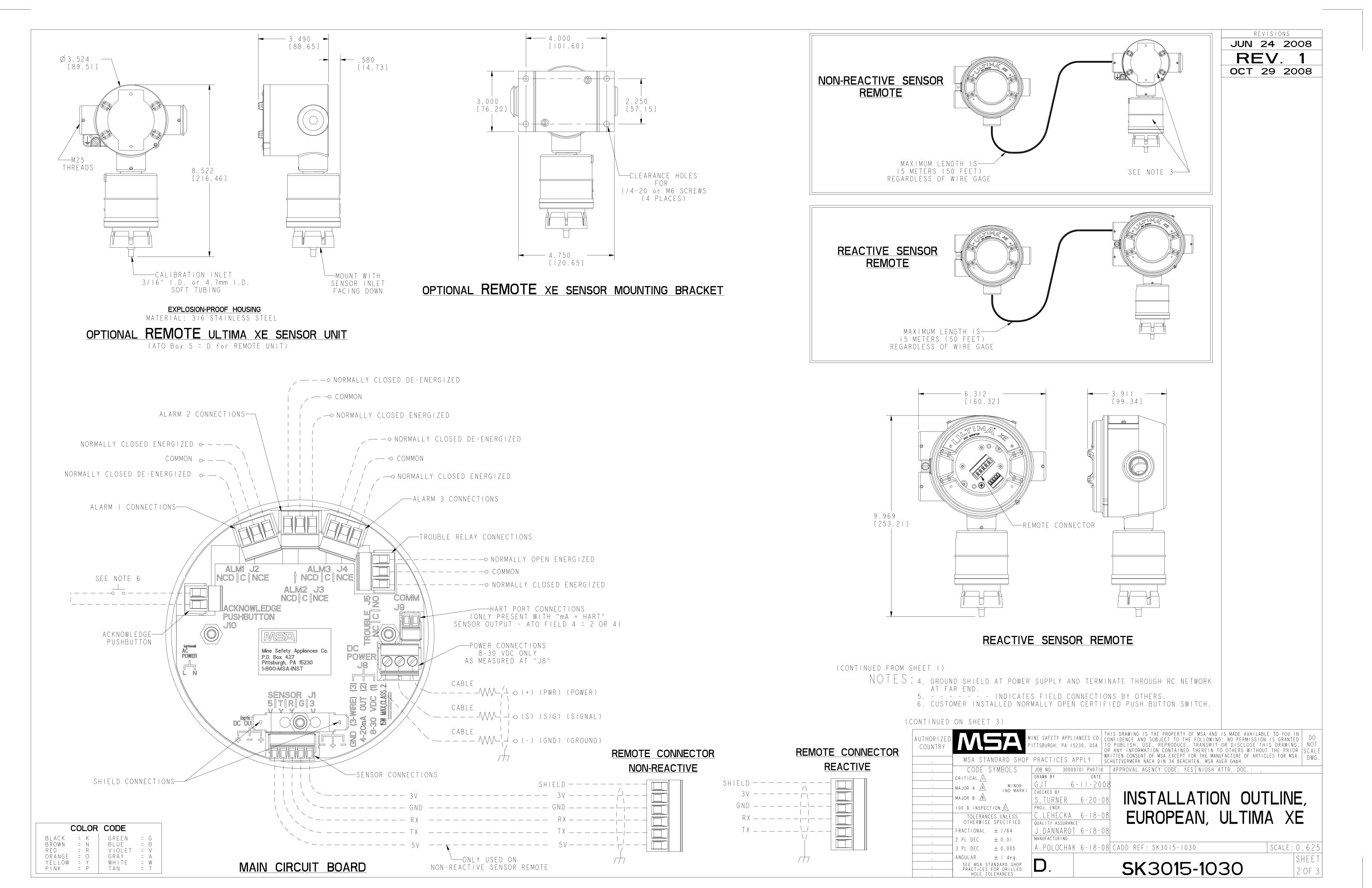
STANDARD ULTIMA XE WEIGHT: 10.4 LBS [4.72 kg]

10.32 [262.2]

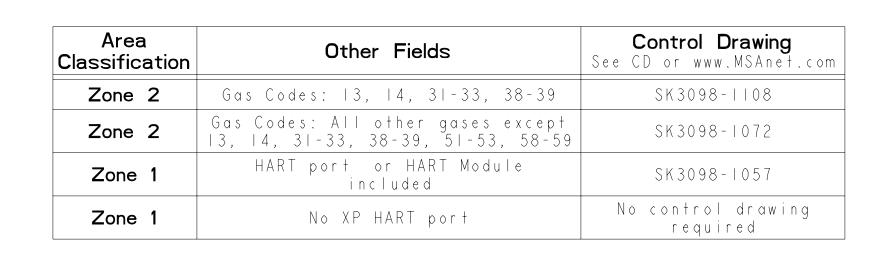
- I.93 -- [49.I]

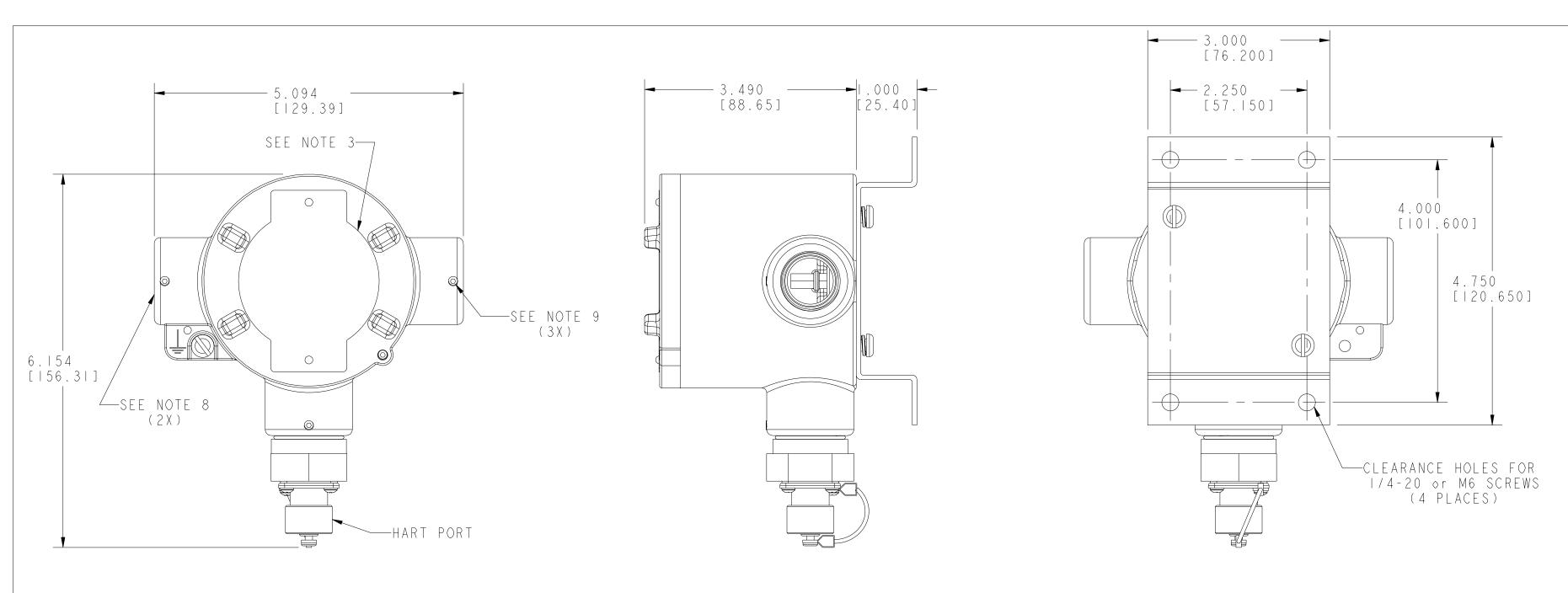
__OPTIONAL (ATO FIELD 10=1)

VIEW SHOWN WITH SENSOR REMOVED





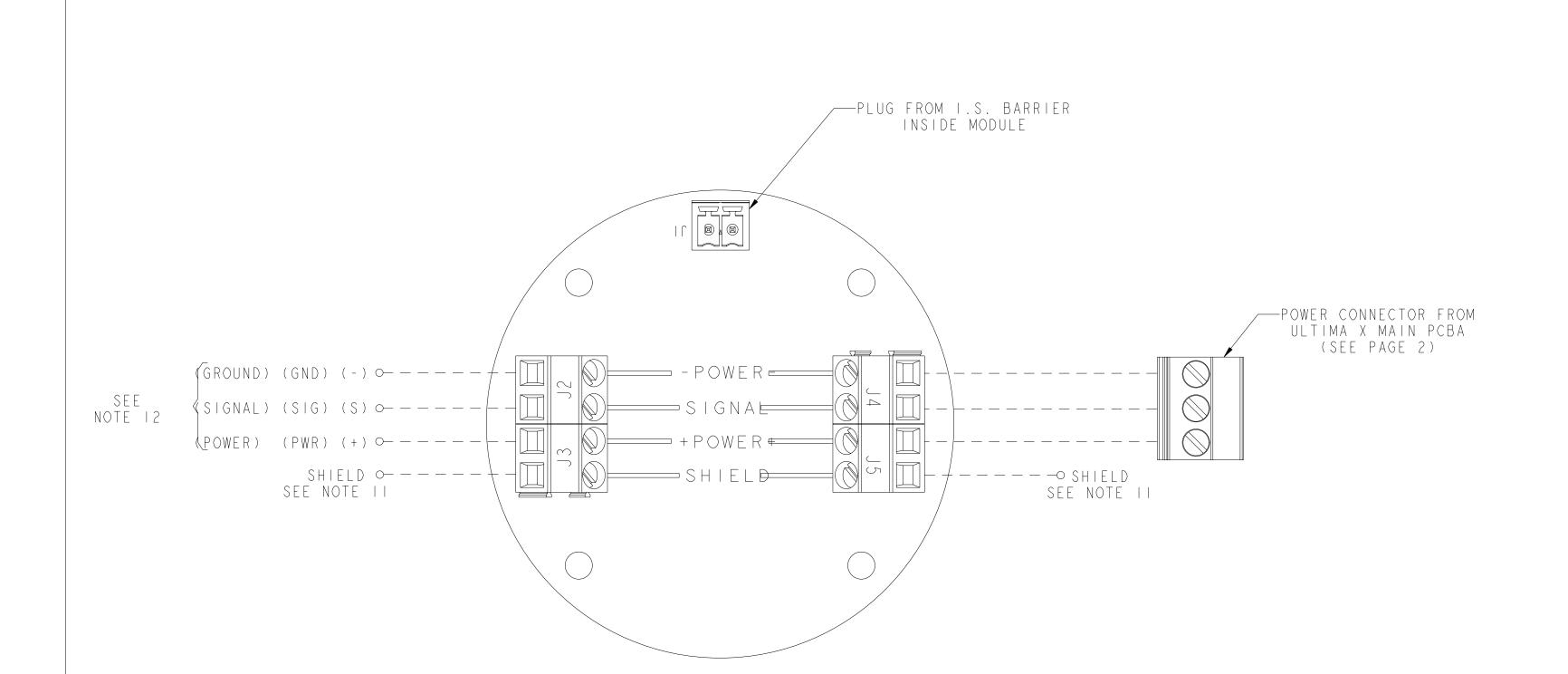




HART MODULE MATERIAL: CAST 316 STAINLESS STEEL

HART MODULE WITH OPTIONAL MOUNTING BRACKET SHOWN (P/N 10047562)

HART MODULE ONLY INCLUDED UNDER CERTAIN ATO CONFIGURATIONS



MSA STANDARD SHOP PRACTICES APPLY SCHUTZVERMERK NACH DIN 34 BEACHTEN. MSA AUER GM6H. CRITICAL / MAJOR A 🗥 MAJOR B 🔊

SEE NOTE 13

(CONTINUED FROM SHEET 2)

JOB NO. 30009701 PH0718 APPROVAL AGENCY CODE: YES NIOSH ATTR. DOC 6-11-2008 (NO MARK) CHECKED BY S.TURNER 6-20-08 C.LEHECKA 6-18-08 QUALITY ASSURANCE J.DANNARDT 6-18-08 MANUFACTURING

8. ATEX NPT MODULES INCLUDE: ONE (I) 3/4 NPT to M25 ADAPTER,

ATEX METRIC MODULES HAVE M25 X 1.5 THREADED ENTRIES. 9. M4 SET SCREWS ONLY ON MODULES WITH M25 THREADED ENTRIES.

II. TIE CABLE SHIELD TO ULTIMA X MAIN P.C BOARD ASSEMBLY OR

12. TWO WIRE UNITS: ONLY USE POWER AND SIGNAL CONNECTIONS 13. SEE CABLE LENGTH TABLES ON SHEET 1.

INSTALLED AT ALL THREADED ENTRIES AT INSTALLATION.

14. CERTIFIED STOPPING PLUGS OR CABLE GLANDS SHALL BE

ULTIMA XE INSTRUMENT with REACTIVE SENSOR

INSTALLATION OUTLINE, EUROPEAN, ULTIMA XE

OR ANY INFORMATION CONTAINED THEREIN TO OTHERS WITHOUT THE PRIOR SCALE

TWRITTEN CONSENT OF MSA EXCEPT FOR THE MANUFACTURE OF ARTICLES FOR MSA.

A.POLOCHAK 6-18-08 CADD REF: SK3015-1030 SCALE: 0.625

3 OF 3

SCALE 2.000

HART MODULE TERMINAL BOARD

100 % INSPECTION & TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL \pm 1/64 2 PL DEC. \pm 0.01 3 PL DEC. \pm 0.005 ANGULAR \pm I deg.

POWER SOURCE SHIELD, NOT BOTH.

SK3015-1030

THIS DRAWING IS THE PROPERTY OF MSA AND IS MADE AVAILABLE TO YOU IN CONFIDENCE AND SUBJECT TO THE FOLLOWING: NO PERMISSION IS GRANTED

TSBURGH, PA 15230, USA TO PUBLISH, USE, REPRODUCE, TRANSMIT OR DISCLOSE THIS DRAWING, NOT

SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

HART MODULE