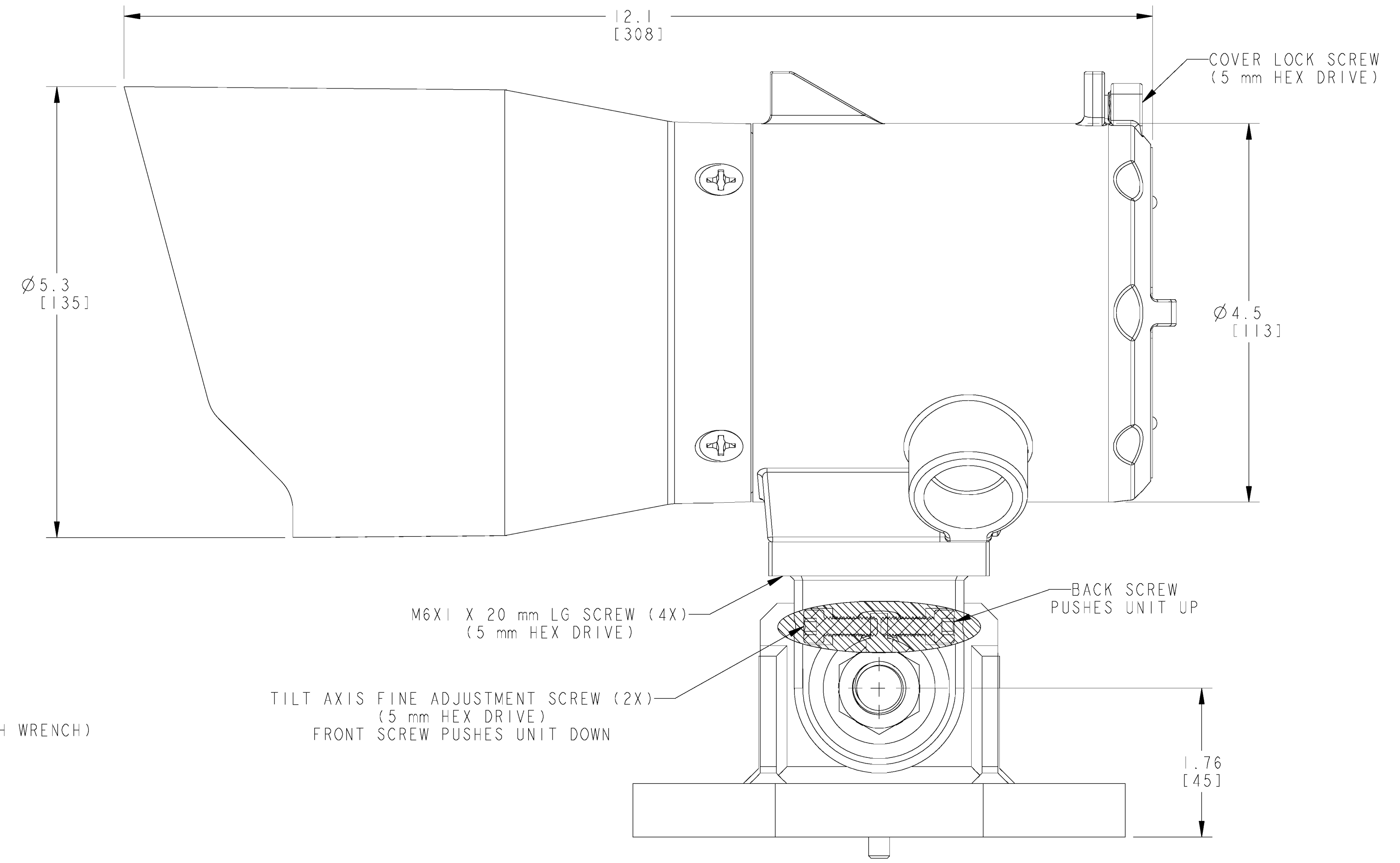
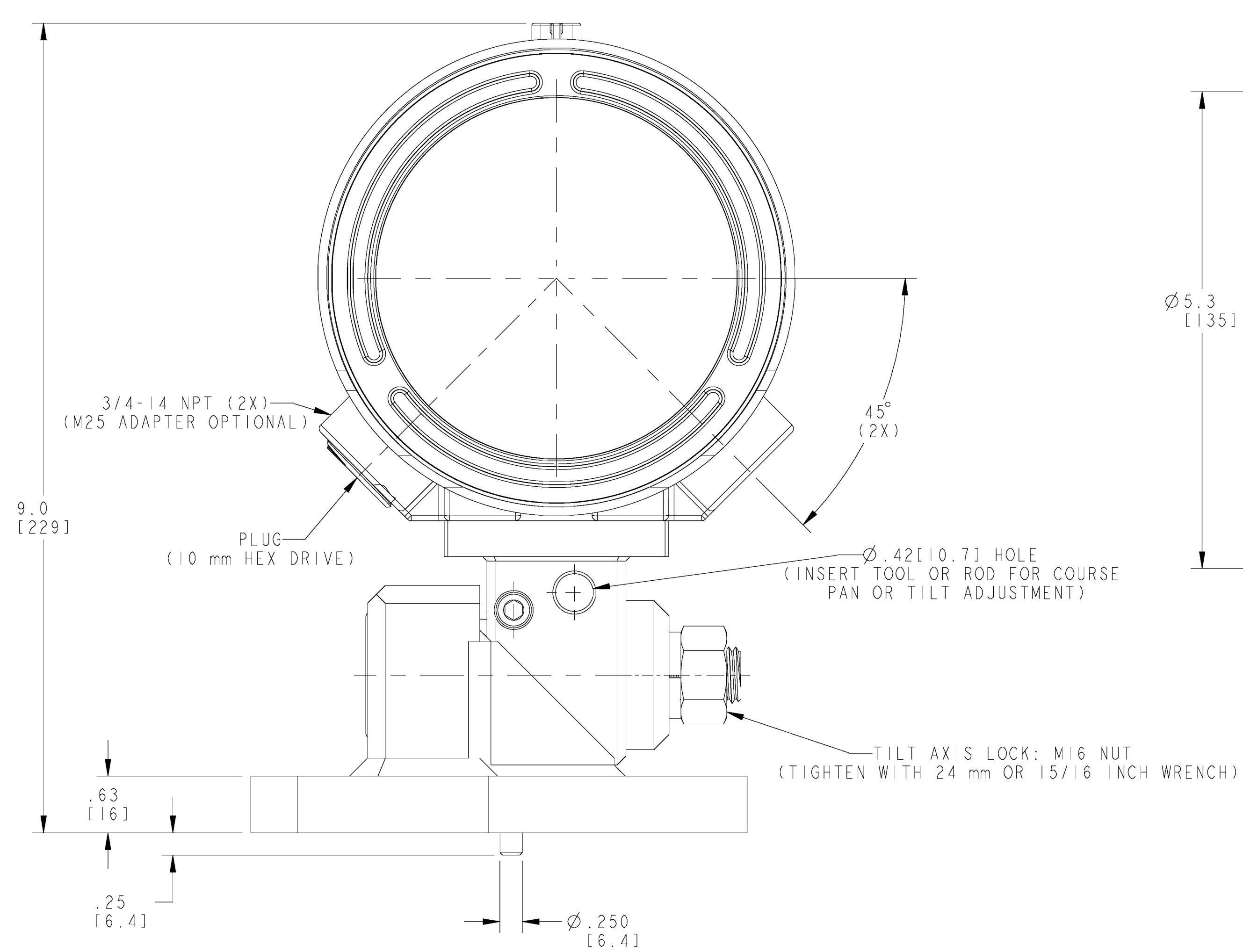


ULTIMA OPIR-5 SOURCE OR RECEIVER WITH PAN-TILT ARM ASSEMBLY

NOTES: 1. DIMENSIONS SHOWN IN INCHES [MILLIMETERS].
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.

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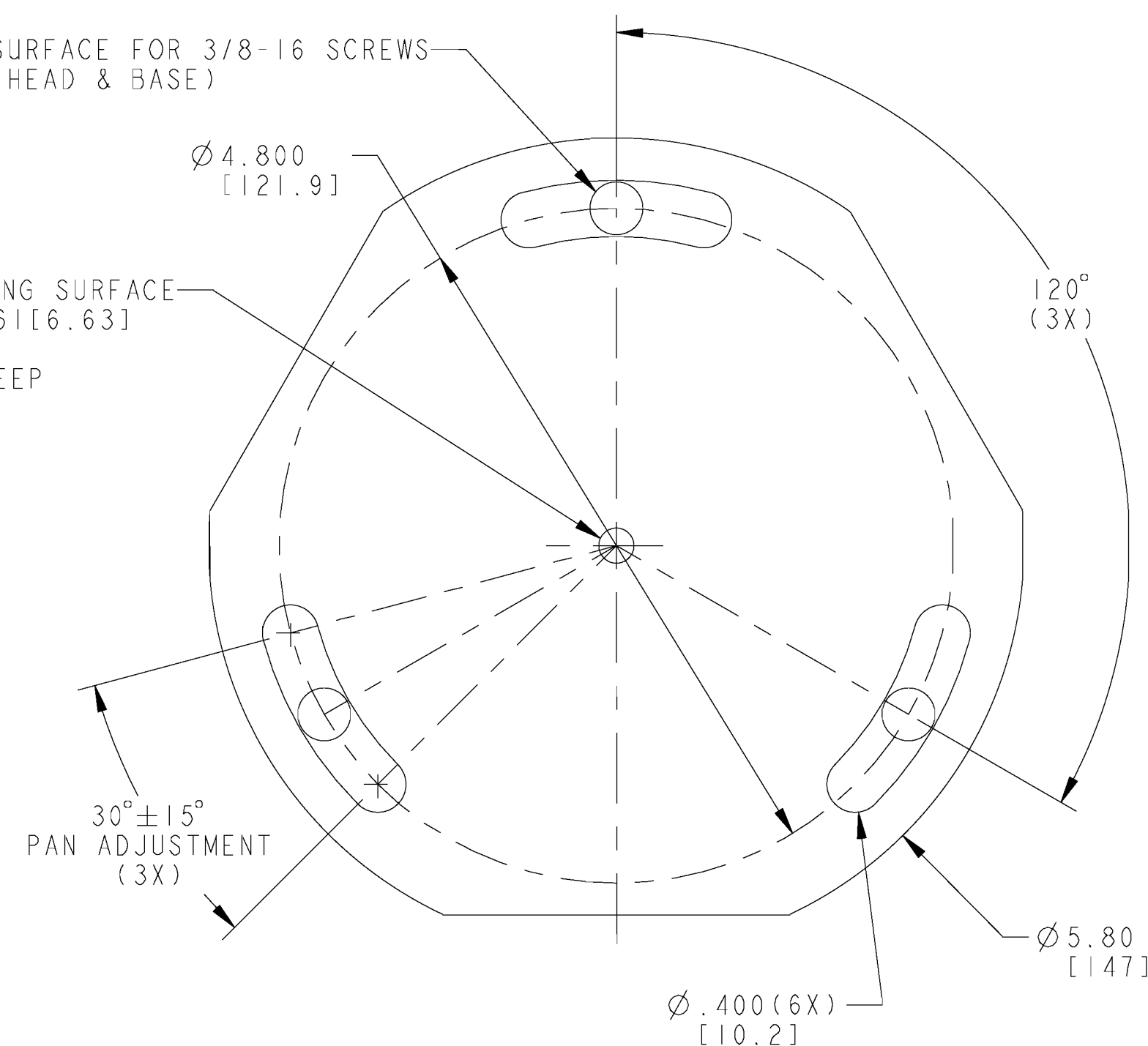
AUTHORIZED COUNTRY	MSA MINE SAFETY APPLIANCES CO. PITTSBURGH, PA 15230, USA	THIS DRAWING IS THE PROPERTY OF MSA AND IS MADE AVAILABLE TO YOU IN CONFIDENCE AND SUBJECT TO THE FOLLOWING: NO PERMISSION IS GRANTED TO PUBLISH, USE, REPRODUCE, TRANSMIT OR DISCLOSE THIS DRAWING, OR ANY INFORMATION CONTAINED 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	CODE SYMBOLS	JOB NO. 30011124 PH0705	APPROVAL AGENCY CODE: NO NIOSH ATTR. DOC.:
CRITICAL Δ	MINOR (NO MARK)	DRAWN BY GJT	DATE 4-21-2011
MAJOR A Δ	MAJOR B Δ	CHECKED BY	PROJ. ENGR.
100% INSPECTION Δ	TOLERANCES UNLESS OTHERWISE SPECIFIED	QUALITY ASSURANCE	MANUFACTURING
FRACTIONAL $\pm 1/64$	2 PL DEC. ± 0.01	<h2>INSTALLATION OUTLINE, ULTIMA OPIR-5</h2>	
3 PL DEC. ± 0.005	ANGULAR $\pm 1 \text{ deg.}$		
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES			
	D.	CADD REF: SK3015-1043	SCALE: 1:000
		SK3015-1043	SHEET 1 OF 3



ULTIMA OPIR-5 SOURCE OR RECEIVER WITH PAN-TILT BASE ASSEMBLY

CLEARANCE OR THREADED HOLE IN MOUNTING SURFACE FOR 3/8-16 SCREWS
(FLAT WASHERS BETWEEN SCREW HEAD & BASE)

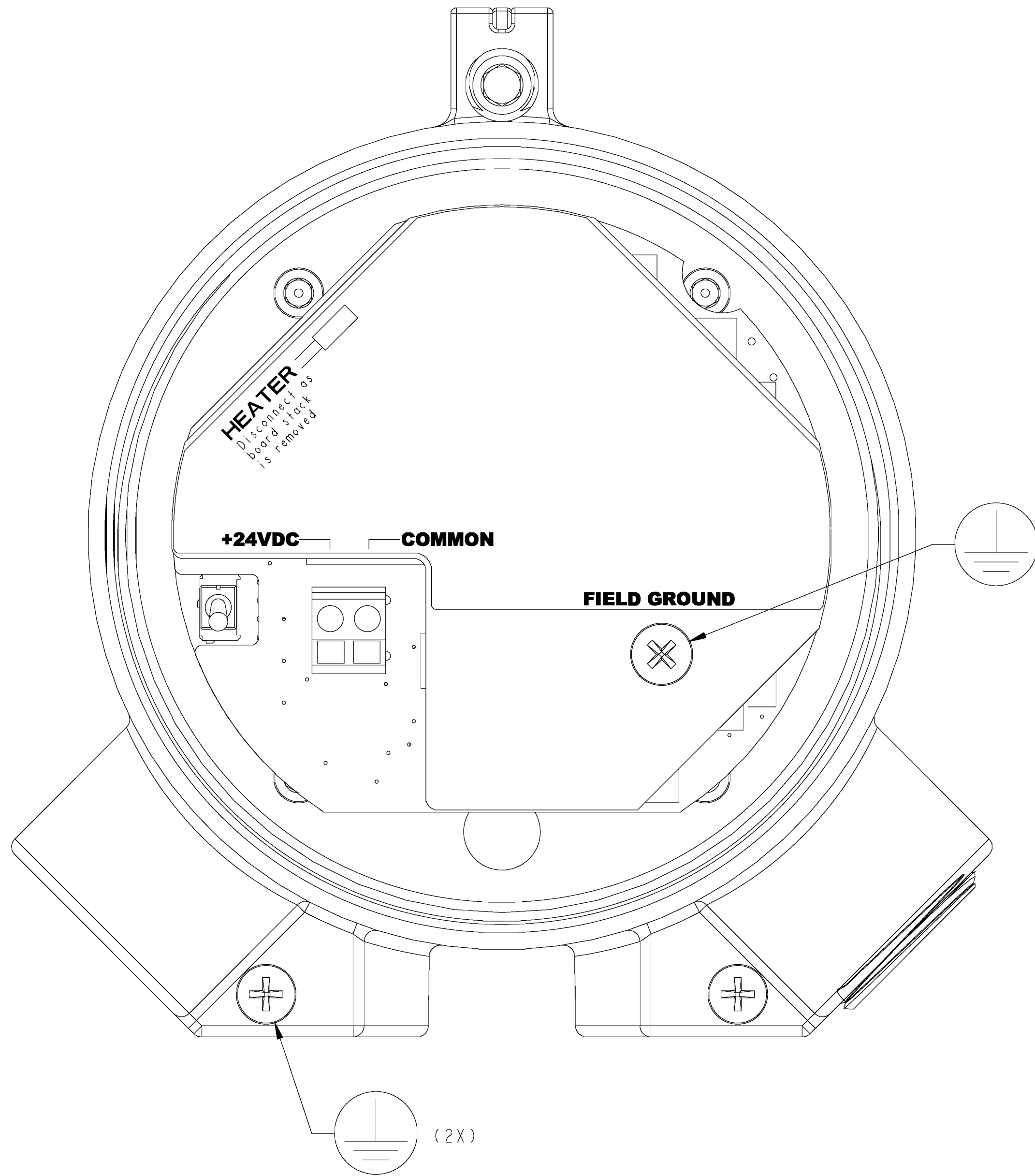
DRILL CLEARANCE HOLE IN MOUNTING SURFACE
FOR PIN: F .257 [6.53], G .261 [6.63]
OR
.256 [6.5] .50 [12.7] DEEP



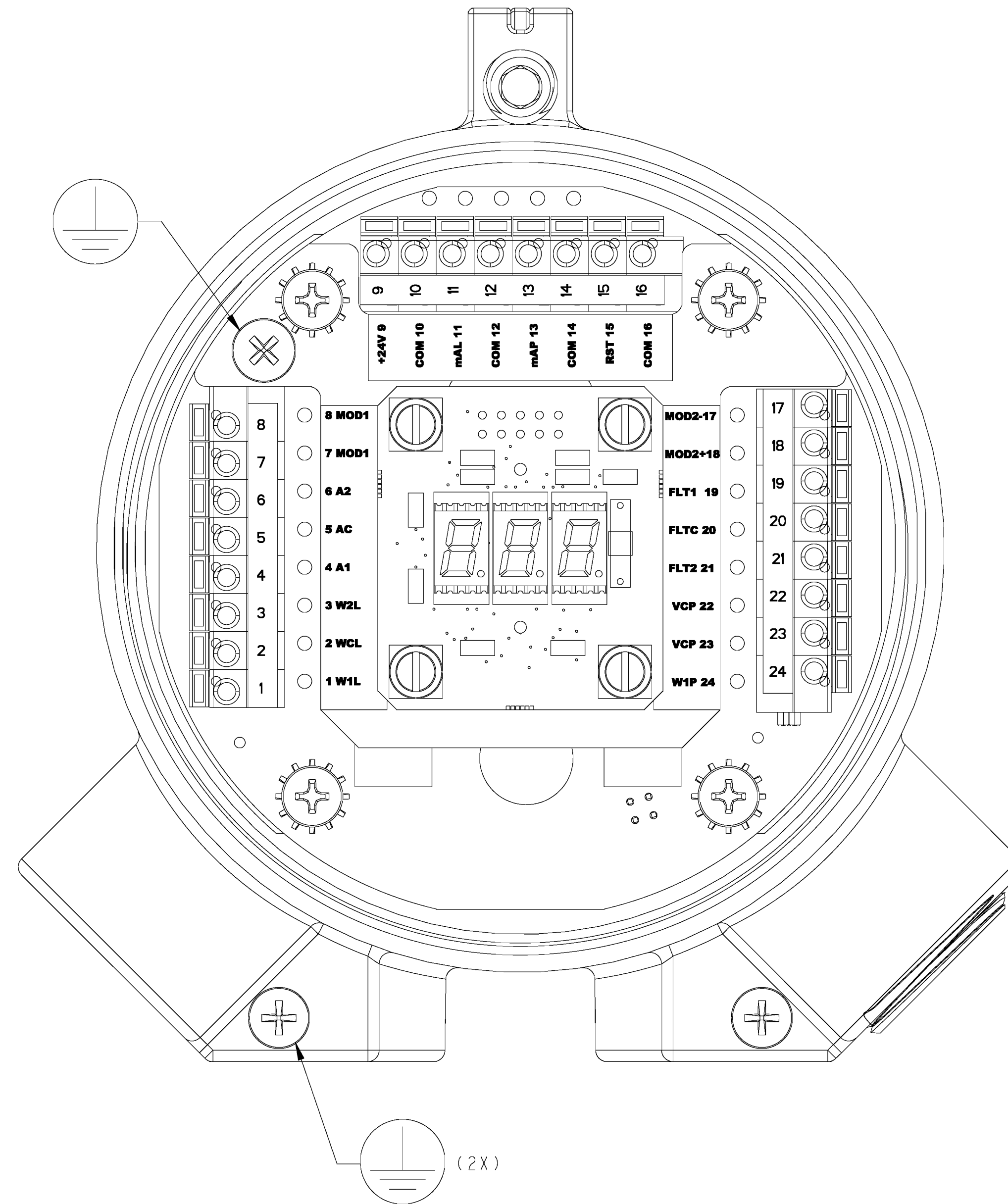
TOP VIEW OF BASE

NOTES: 1. DIMENSIONS SHOWN IN INCHES [MILLIMETERS].
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.

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MSA STANDARD SHOP PRACTICES APPLY			JOB NO. 30011124 PH0705	DO NOT SCALE DWG.	
CRITICAL	△	DATE	4-21-2011	INSTALLATION OUTLINE, ULTIMA OPIR-5	
MAJOR A	△	DRAWN BY	GJT	CADD REF: SK3015-1043	
MAJOR B	△	CHECKED BY		SCALE: 1:000	
100% INSPECTION	△	PROJ. ENGR.		SHEET 2 OF 3	
TOLERANCES UNLESS OTHERWISE SPECIFIED			QUALITY ASSURANCE	SK3015-1043	
FRACTIONAL	± 1/64	MANUFACTURING		D.	
2 PL DEC.	± 0.01			SK3015-1043	
3 PL DEC.	± 0.005			SHEET 2 OF 3	
ANGULAR	± 1 deg.			D.	
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES				SK3015-1043	



ULTIMA OPIR-5 SOURCE WITH COVER REMOVED
SCALE: 2X



ULTIMA OPIR-5 RECEIVER WITH COVER REMOVED
SCALE: 2X

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	MSA STANDARD SHOP PRACTICES APPLY	JOB NO. 30011124 PH0705 APPROVAL AGENCY CODE: NO NIOSH ATTR. DOC.:	
	CODE SYMBOLS	DRAWN BY GJT DATE 4-21-2011	INSTALLATION OUTLINE, ULTIMA OPIR-5
	CRITICAL Δ	CHECKED BY	
	MAJOR A Δ MINOR (NO MARK)	PROJ. ENGR.	
	MAJOR B Δ	QUALITY ASSURANCE	
	100% INSPECTION Δ	MANUFACTURING	
	TOLERANCES UNLESS OTHERWISE SPECIFIED		
	FRACTIONAL $\pm 1/64$		
	2 PL DEC. ± 0.01		
	3 PL DEC. ± 0.005		
	ANGULAR $\pm 1 \text{ deg.}$		
	SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES		
		D.	SK3015-1043
		CADD REF: SK3015-1043	SCALE: 1:000
			SHEET 3 OF 3