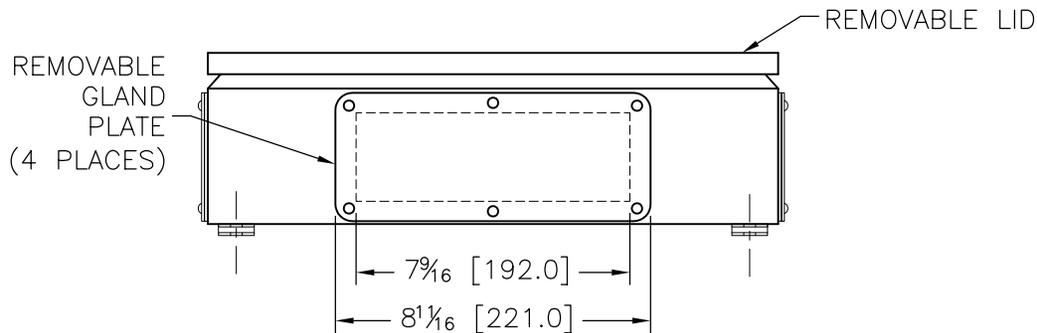


SEE NOTE 2



**NOTES:**

1. NEMA 12 ENCLOSURE.
2. LEAVE 4 INCHES (102mm) CLEARANCE FOR CABLE ENTRY.
3. LEAVE CLEARANCE FOR REMOVAL OF LID AND ACCESS TO INTERIOR.

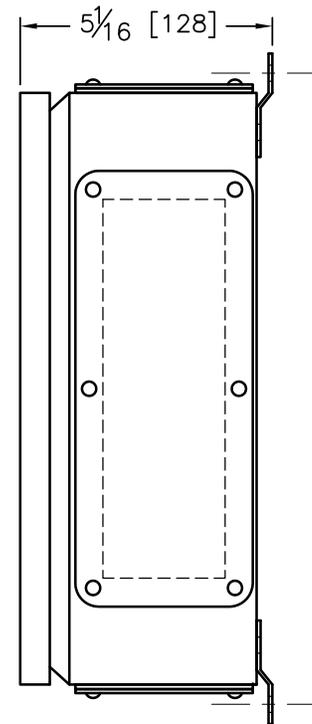
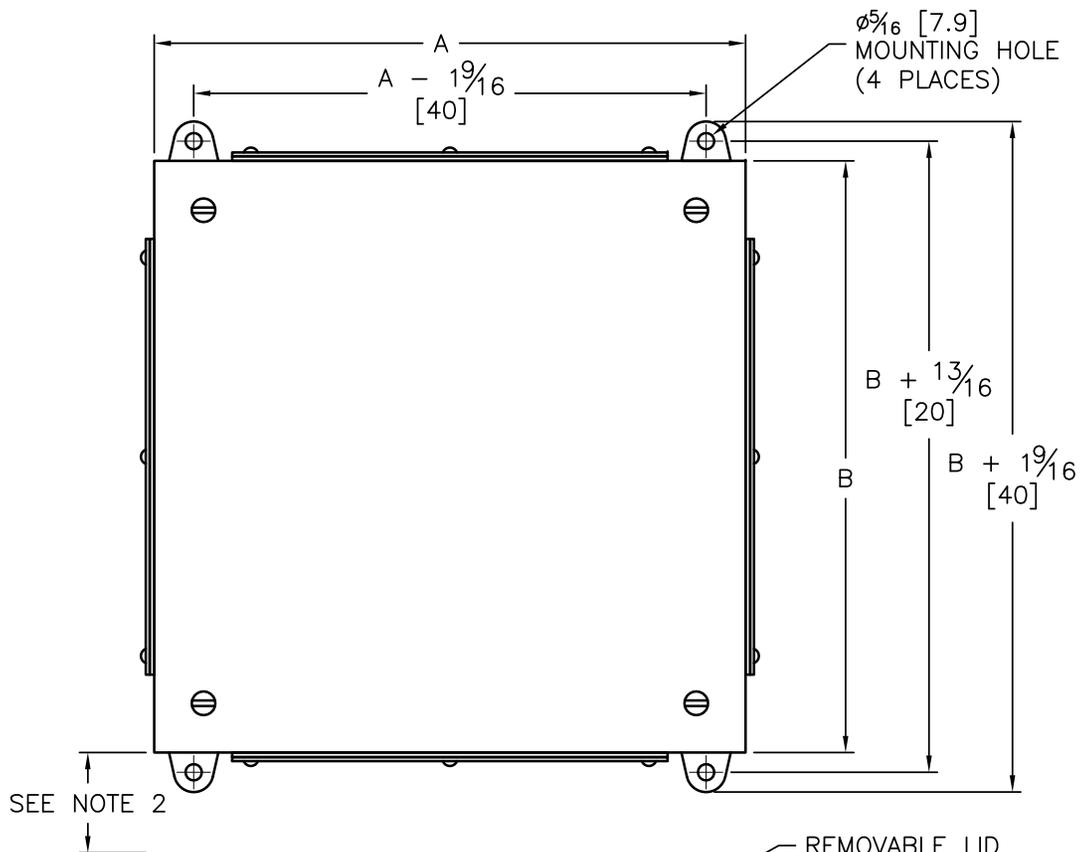
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/16
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓

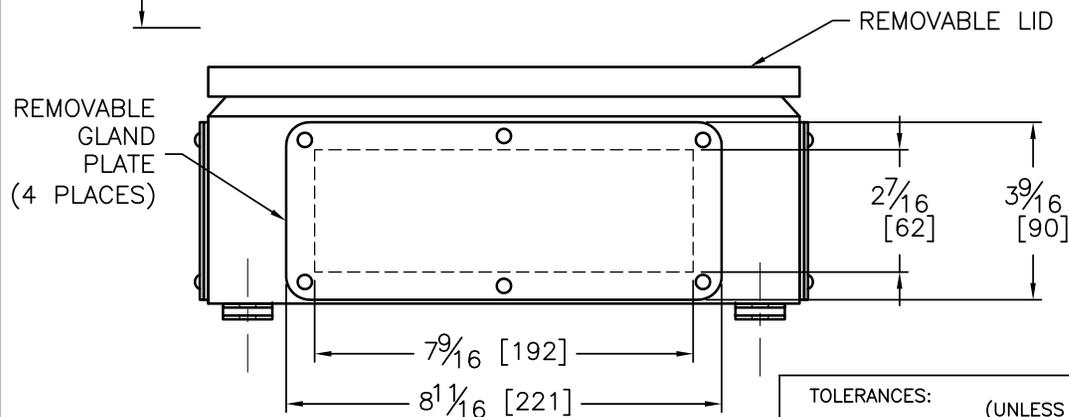
ALL DIMENSIONS IN INCH(mm)

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334			
DATE:	04-11-05	SCALE: 3/8:1	DRAWN: A.L.
TITLE:	DSC ENCLOSURE OVERALL DIMENSIONS		APPR: [Signature] N/A DRAWING NUMBER: C-721220



**PRELIMINARY**  
NOT FOR FINAL PRODUCTION

	A	B
DIMENSIONS	$1 1 \frac{13}{16}$ [300]	$1 1 \frac{13}{16}$ [300]



**NOTES:**

1. NEMA 12 ENCLOSURE.
2. LEAVE 4 INCHES (102mm) CLEARANCE FOR CABLE ENTRY.
3. LEAVE CLEARANCE FOR REMOVAL OF LID AND ACCESS TO INTERIOR.

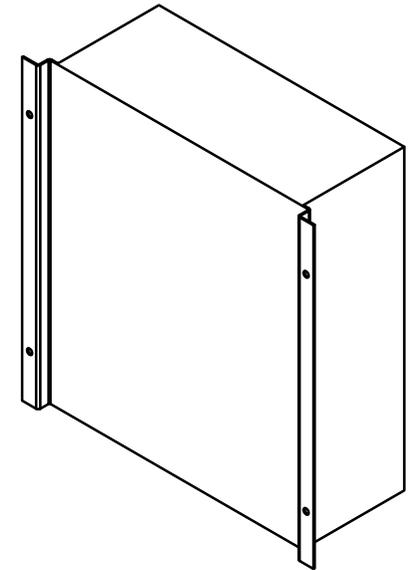
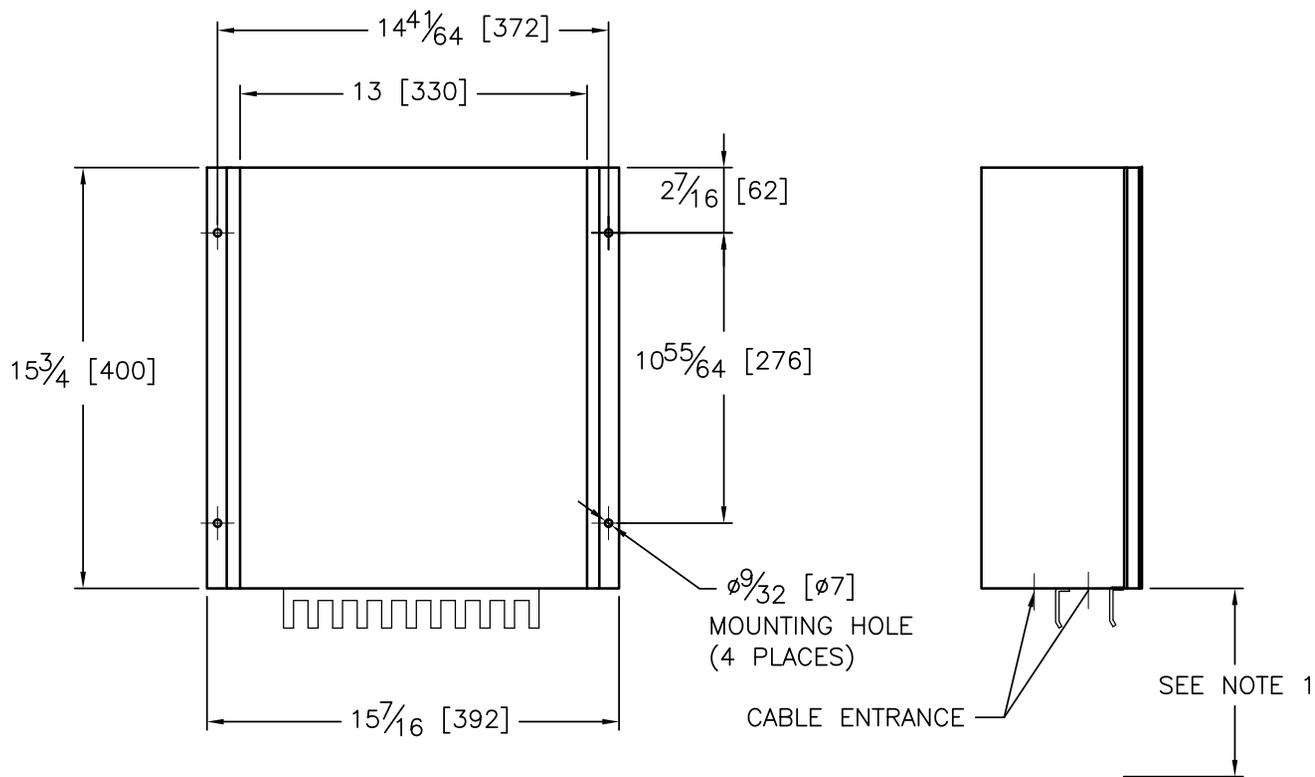
TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	$\checkmark$

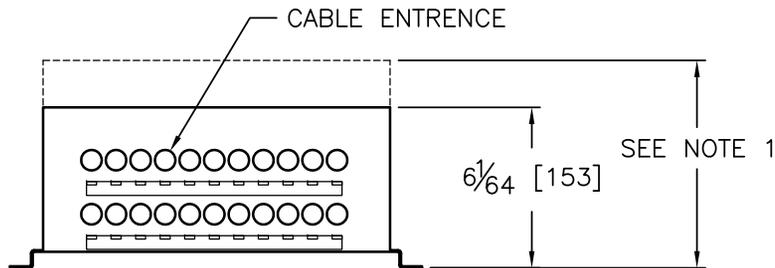
ALL DIMENSIONS IN INCH(mm)

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REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: 20-06-14	SCALE: 3/8:1	DRAWN: P.K.	APPR.
TITLE: MCP 100-10 ENCLOSURE OAD			ENG. PROD.
DRAWING NUMBER: B-721402			



NOTES:  
 1. LEAVE 6 INCHES (152mm) CLEARANCE FOR CABLE ENTRY AND COVER REMOVAL.



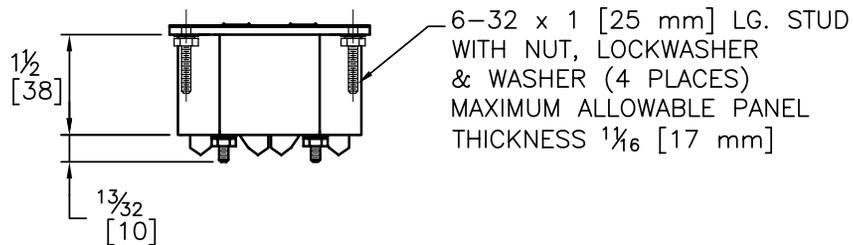
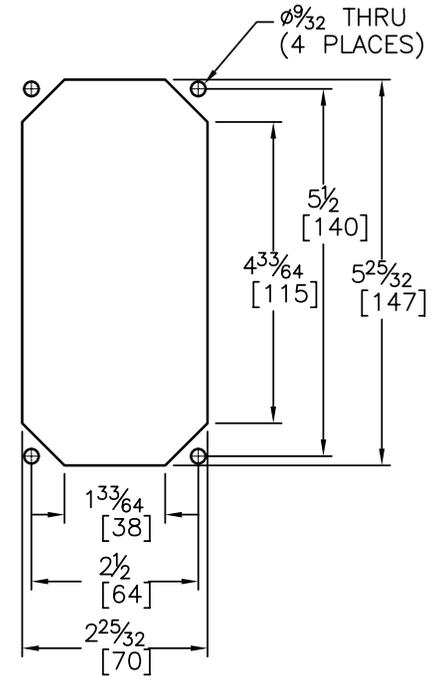
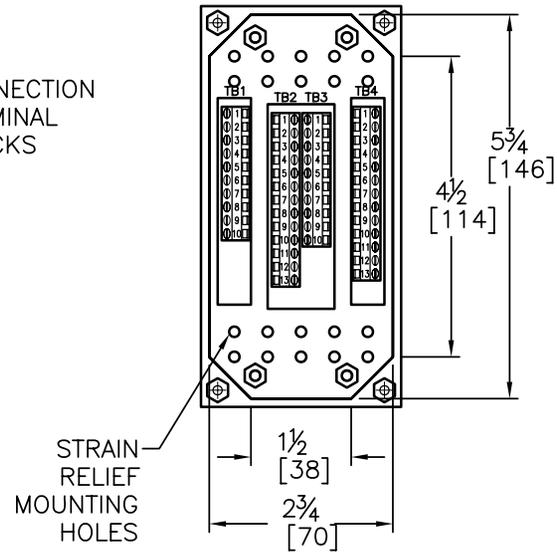
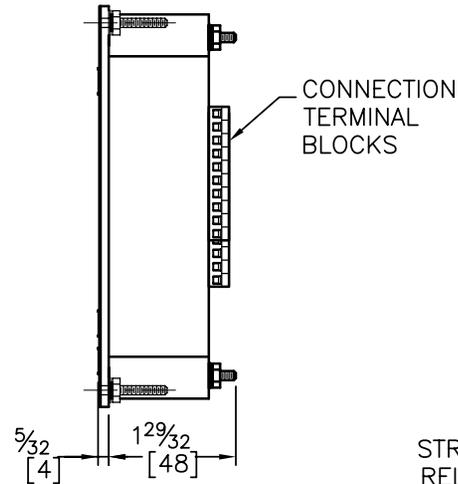
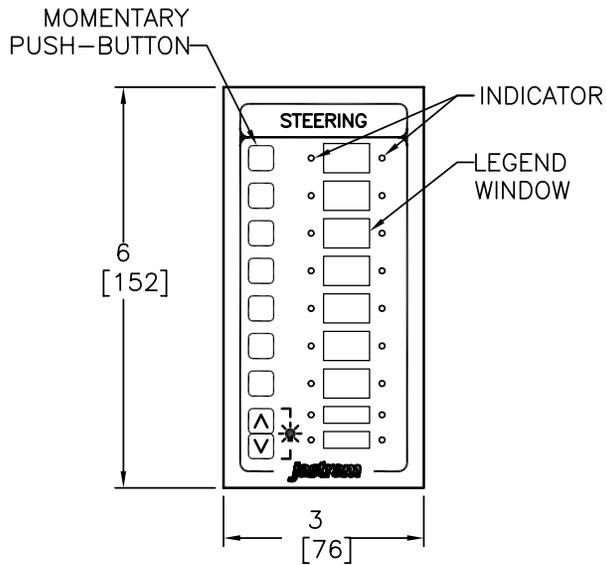
TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	$\sqrt{\text{---}}$

ALL DIMENSIONS IN INCH(mm)

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REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: 28-05-14	SCALE: 1":5"	DRAWN: P.K.	APPR.
TITLE: STEERING CONTROL UNIT OVERALL DIMENSIONS			DRAWING NUMBER: B-721400



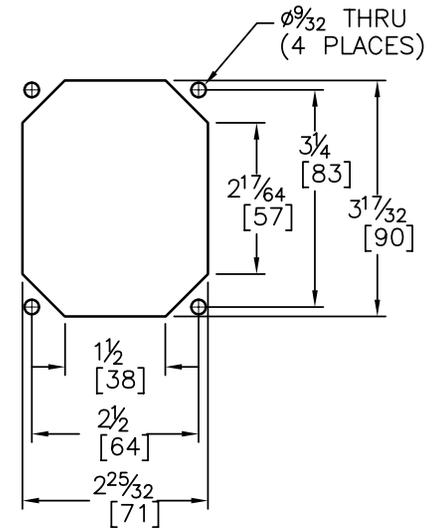
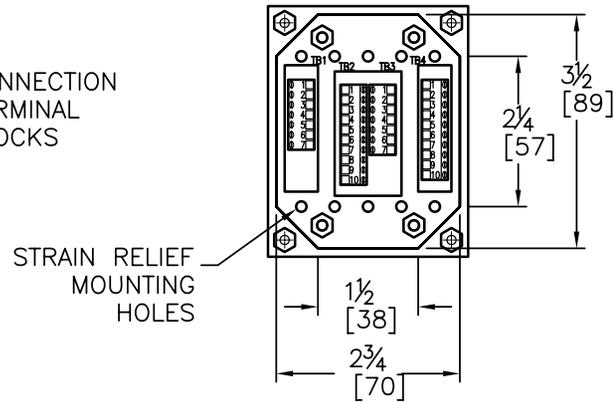
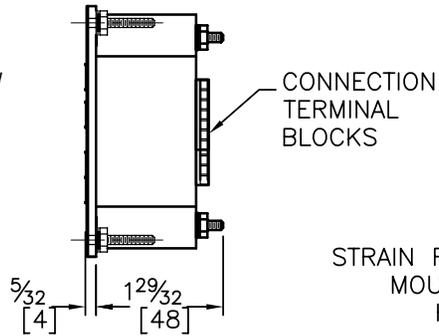
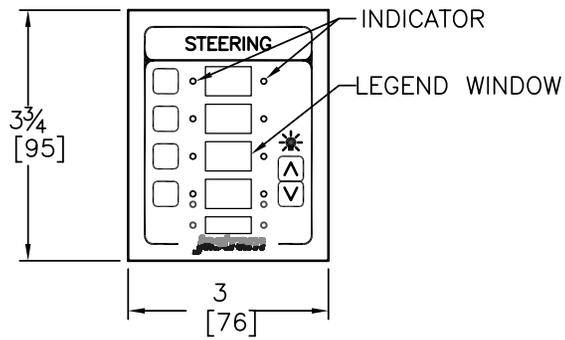
**PANEL CUTOUT**

- NOTES:**  
 1. FOUR CABLE STRAIN RELIEF STRAPS SUPPLIED WITH COMPONENT.

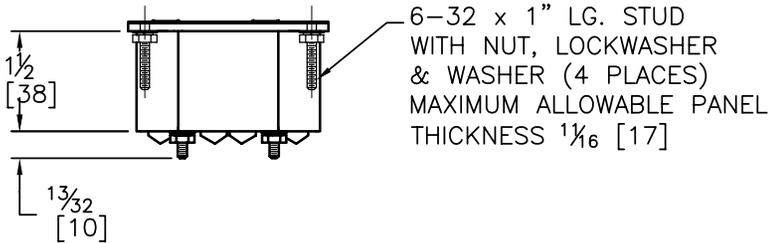
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓
ALL DIMENSIONS IN INCH[mm]			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 988-0334	
DATE: 22-09-10	SCALE: 1/2":1"	DRAWN: P.K.	APPR: P.K. N/A PROD.
TITLE: CP 600 CONTROL PANEL OVERALL DIMENSIONS			DRAWING NUMBER: B-721312



PANEL CUTOUT

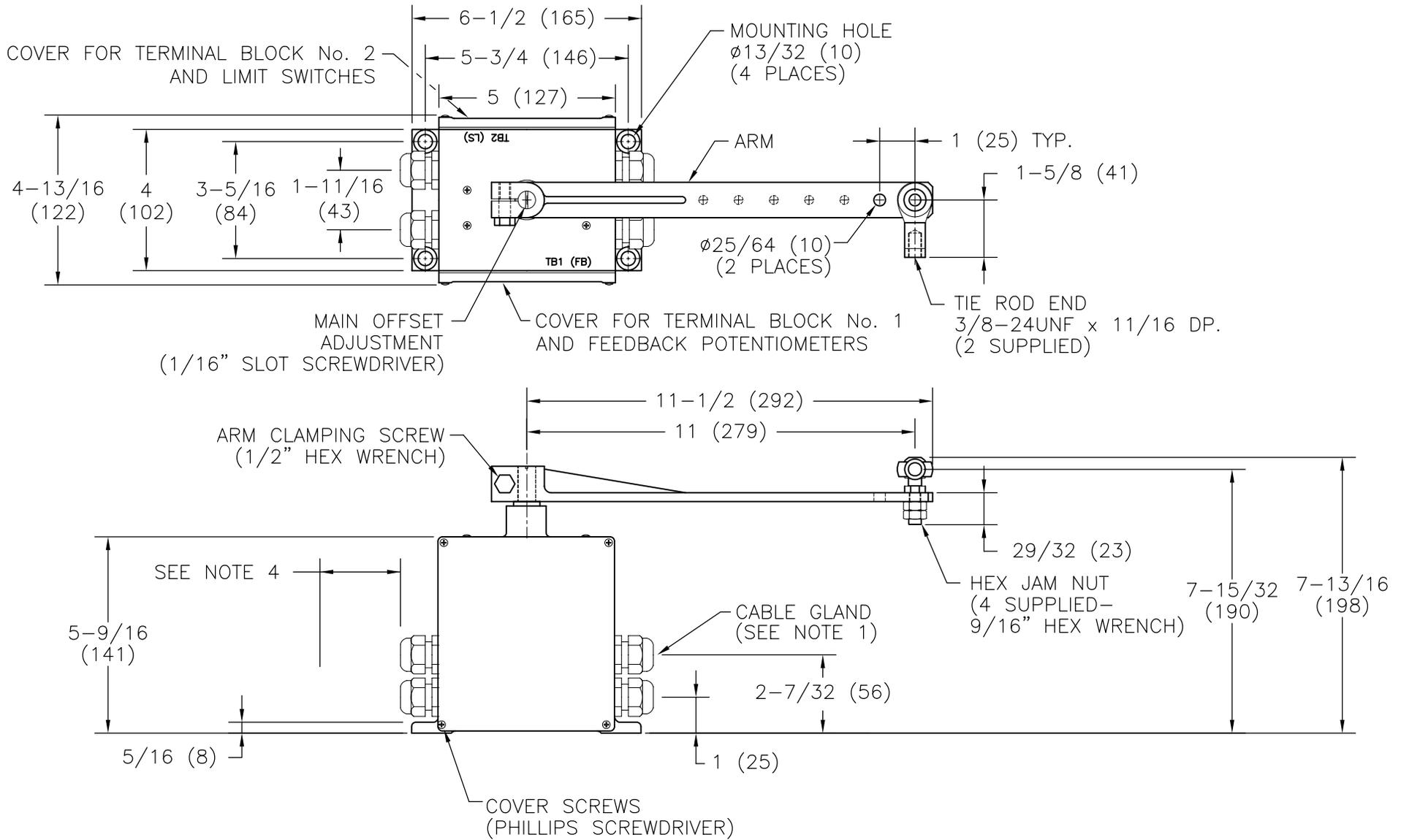


- NOTES:**  
1. FOUR CABLE STRAIN RELIEF STRAPS SUPPLIED WITH COMPONENT.

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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓
ALL DIMENSIONS IN INCH[mm]			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: (D/M/Y)	17-12-10	SCALE: 1/2":1"	DRAWN: P.K. APPR: P.K. N/A PROD.
TITLE: CP 375 CONTROL PANEL OVERALL DIMENSIONS			DRAWING NUMBER: B-721319



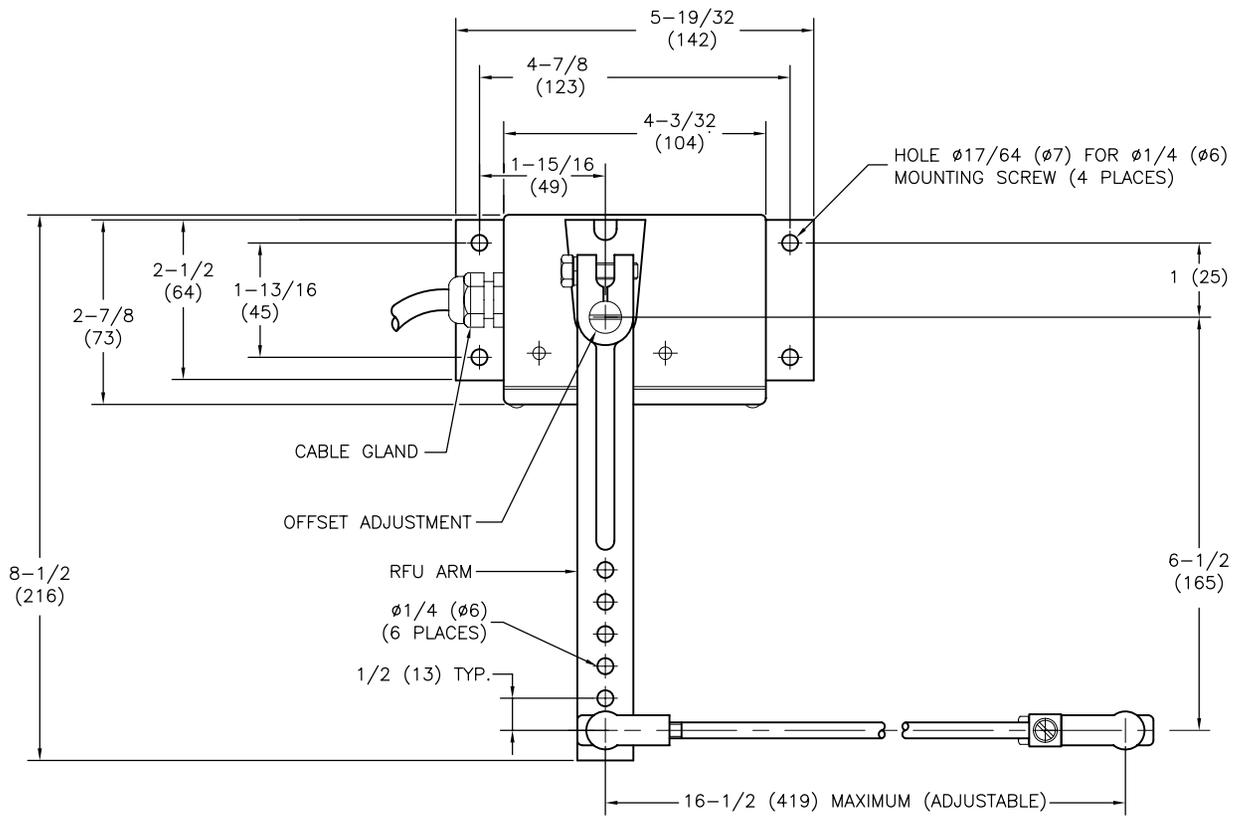
**NOTES:**

1. CABLE GLANDS (SUPPLIED BY JASTRAM) ACCEPT CABLE JACKET DIAMETERS BETWEEN 1/4" (6mm) TO 1/2" (13mm).
2. SEE RFU MOUNTING ARRANGEMENT FOR ARM LINKAGE DETAILS AND ENSURE ARM CAN SWING FROM HARDOVER TO HARDOVER.
3. FEEDBACK UNIT BODY CAN BE MOUNTED AT ANY ORIENTATION WITH RESPECT TO ARM.
4. LEAVE 4 INCHES CLEARANCE FROM EACH GLAND FOR CABLES.
5. LEAVE CLEARANCE FOR REMOVAL OF COVERS AND ACCESS TO INTERIOR.
6. TIE ROD END JAM NUTS MUST BE USED AS SHOWN TO PREVENT LOOSENING OF RFU ARM.

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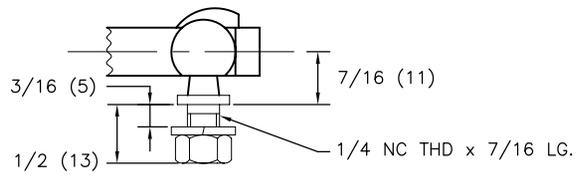
TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓
ALL DIMENSIONS IN INCH(mm)			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 988-0334			
DATE:	03-08-01	SCALE:	N.T.S.
DRAWN:	G.C.	APPR:	[Signature]
TITLE:	RUDDER FEEDBACK UNIT (RFU 2000) O.A.D.		DRAWING NUMBER:
			C-721147

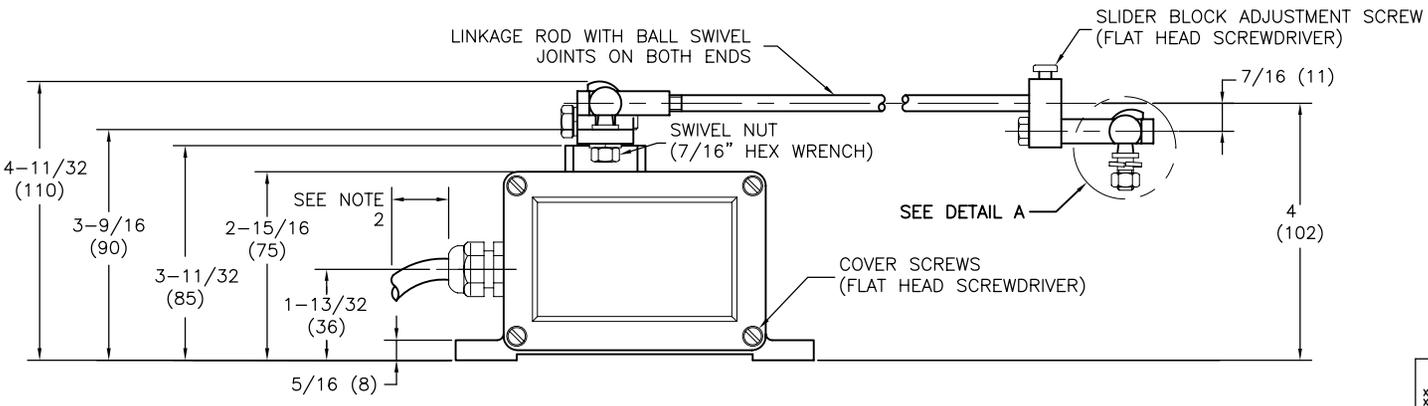


**NOTES:**

1. 5 FT. OF PRE-WIRED CABLE SUPPLIED WITH RFU 300.
2. LEAVE 4 INCHES CLEARANCE FOR CABLE.
3. LEAVE CLEARANCE FOR COVER REMOVAL AND ACCESS TO INTERIOR.
4. SEE RFU MOUNTING ARRANGEMENT AND ALLOW CLEARANCE FOR ARM TO SWING FROM HARDOVER TO HARDOVER.



**DETAIL A**  
SCALE 2:1



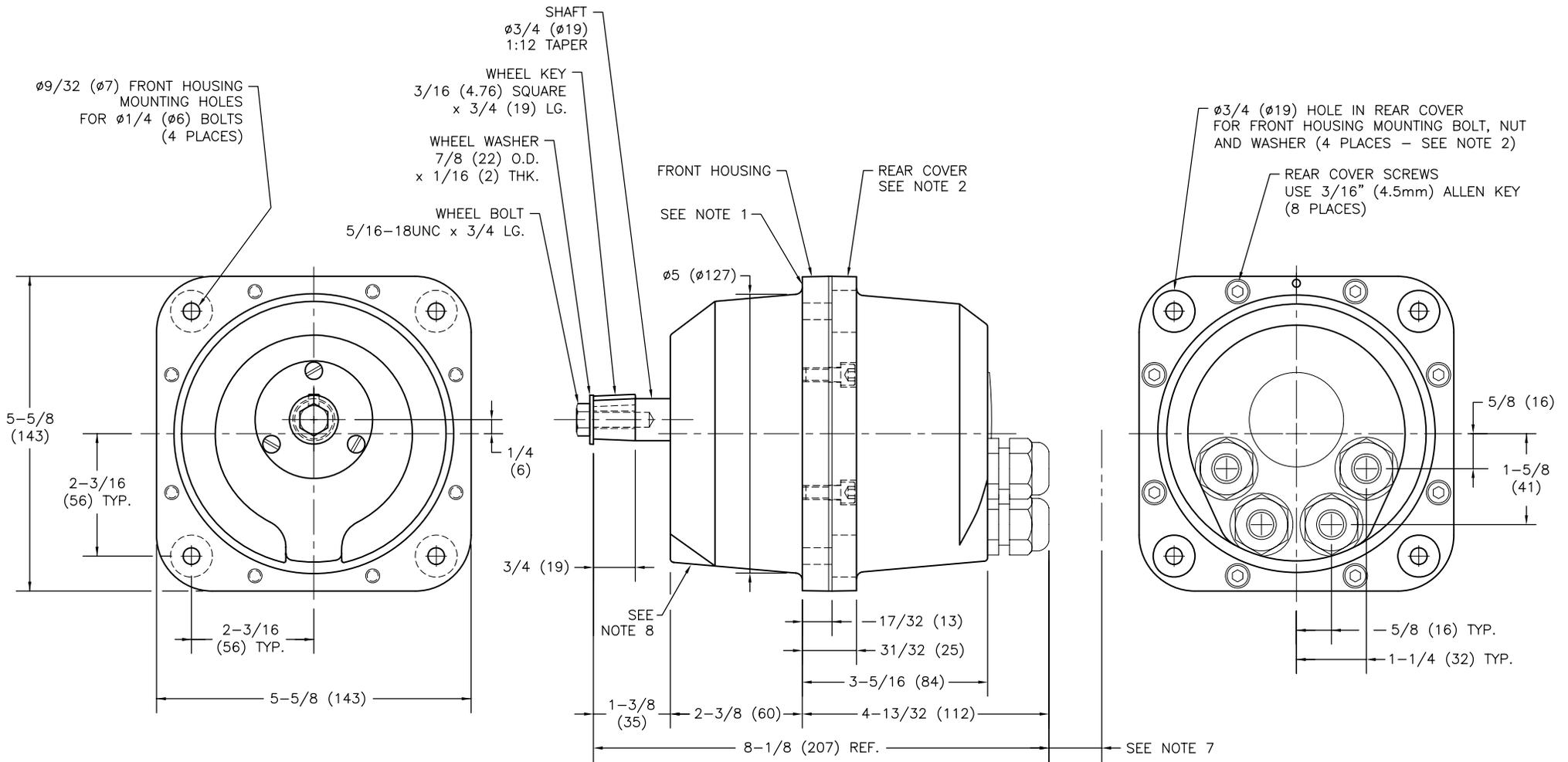
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**TOLERANCES:** (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	125

ALL DIMENSIONS IN INCH(mm)

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>			
DATE: 16-06-05		SCALE: 1"=1"	DRAWN: A.L.
TITLE: RÜDDER FEEDBACK UNIT (RFU 300) O.A.D.		APPR: [Signature]	N/A
DRAWING NUMBER: D-721212			2500



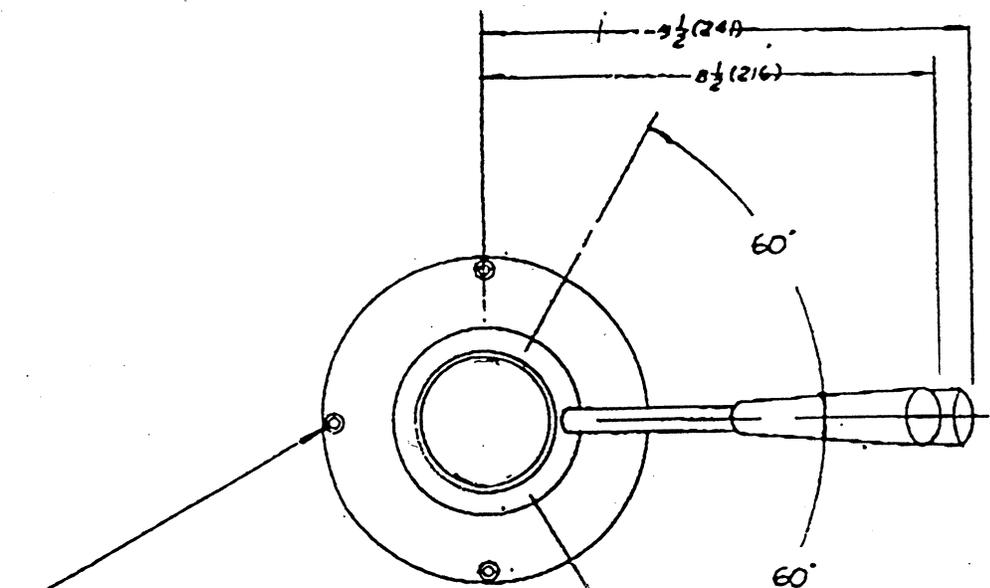
**NOTES:**

1. PREFERRED MOUNTING SURFACE WILL ALLOW FOR REMOVAL OF REAR COVER.
2. LEAVE CLEARANCE FOR REMOVAL OF REAR COVER AND ACCESS TO INTERIOR. REAR COVER CAN BE REMOVED WITH FRONT HOUSING MOUNTED IN STEERING CONSOLE.
3. ELECTRIC WHEEL CAN BE MOUNTED AT ANY ORIENTATION WITHIN  $\pm 45^\circ$  OF HORIZONTAL POSITION SHOWN.
4. UNIT IS SELF-LUBRICATING. DO NOT FILL UP WITH OIL OR GREASE.
5. WHEEL TURNS 1367° (3.8 TURNS) BETWEEN CLUTCHED HARDOVER STOPS.
6. CABLE GLANDS (SUPPLIED BY JASTRAM) ACCEPT CABLE JACKET DIAMETERS BETWEEN 1/4" (6mm) TO 1/2" (13mm).
7. LEAVE 4 INCHES CLEARANCE FROM EACH GLAND FOR CABLES.
8. SHAFT FRICTION ADJUSTMENT IS LOCATED 1" (25mm) UNDER PIPE PLUG. USE 3/16" (4.5mm) ALLEN KEY TO ADJUST.

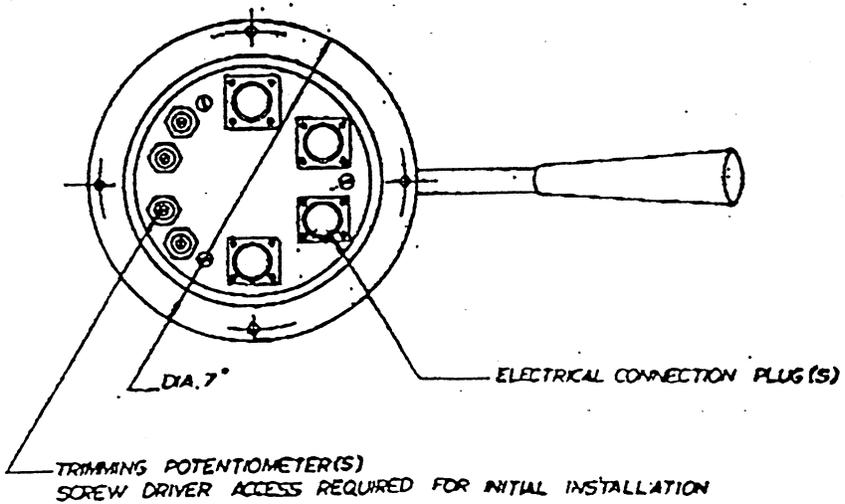
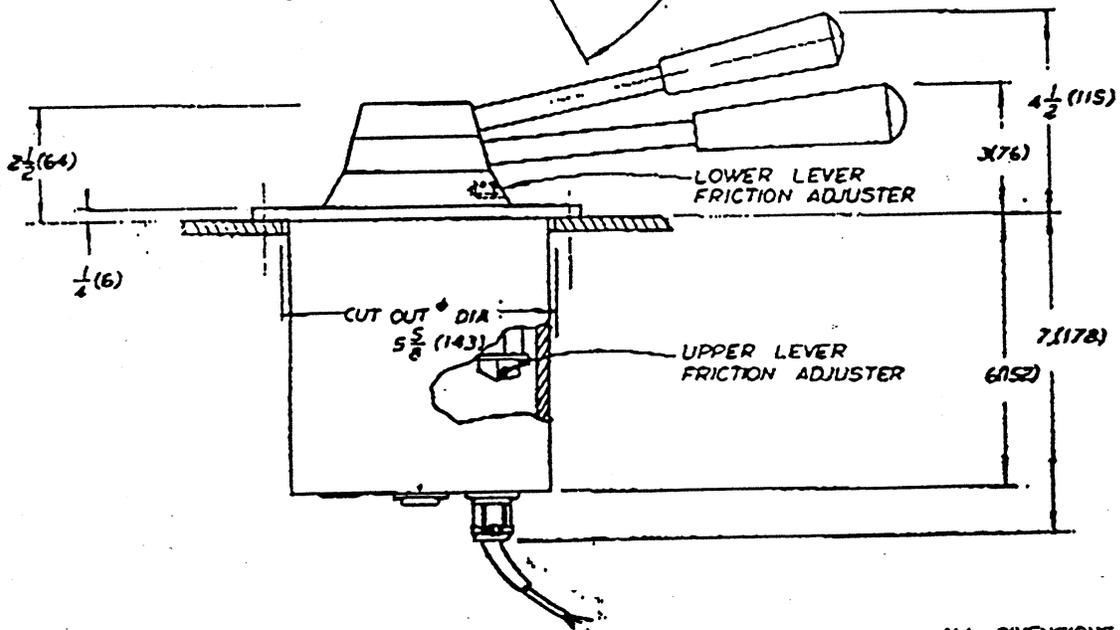
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	125
ALL DIMENSIONS IN INCH(mm)			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 988-0334			
DATE:	10-05-02	SCALE:	3/4":1"
DRAWN:	C.S.	APPR:	[Signature]
TITLE:	EW 200 OVERALL DIMENSIONS		DRAWING NUMBER: C-721157



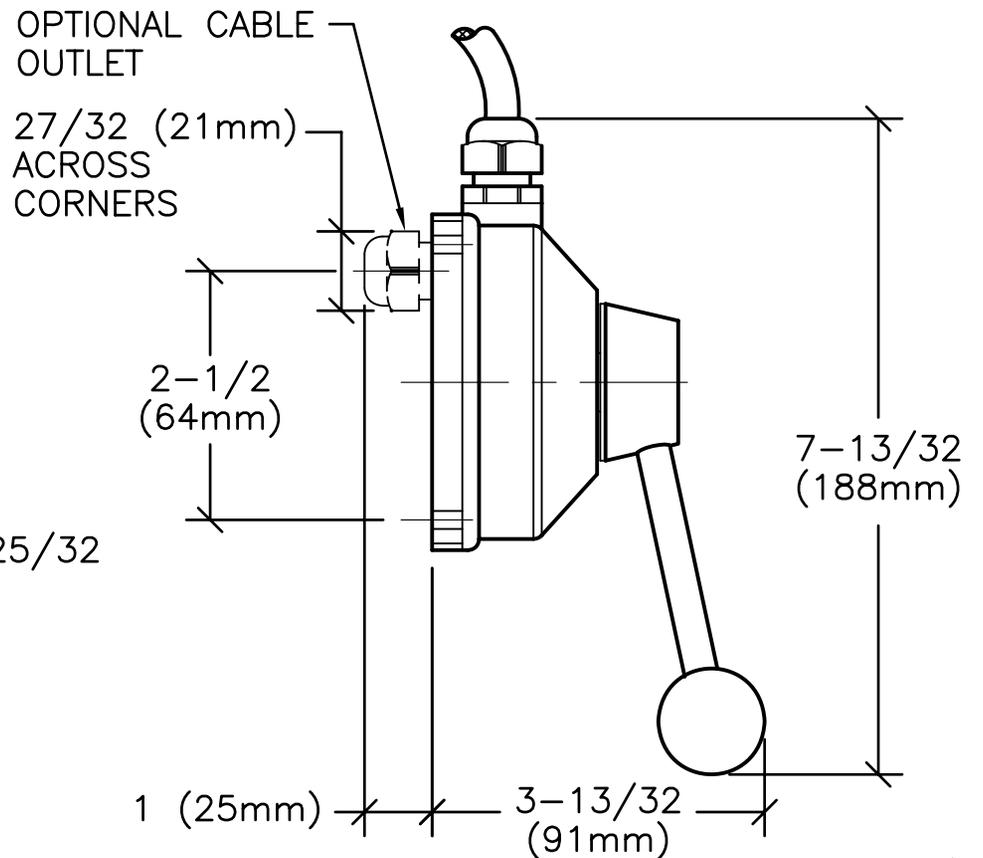
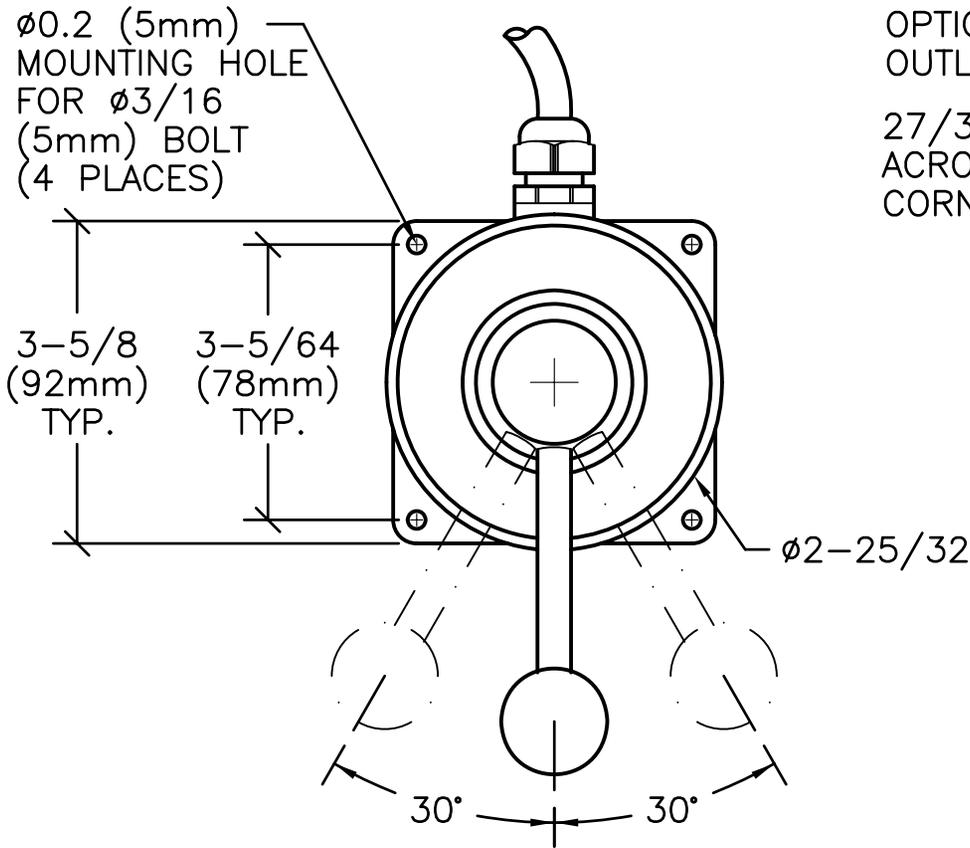
4 MOUNTING HOLES FOR #10 CTR'S  
FLAT HEAD SCREW AT  $6 \frac{3}{8}$  B.C.



-- ALL DIMENSIONS IN INCHES (MM)

REV.	DATE	SEE DCN 990051	DRAWING/DESIGN CHANGE No.	BT
A	25-11-99			6
JASTRAM ENGINEERING LTD. 487 Mountain Highway North Vancouver, B.C. Canada V7J 2L3 Tel.: (604) 986-0714 Fax: (604) 986-0334				
DATE: 05-07-99		SCALE: N/A	DRAWN: S.E.	APPR. C.T.
DRAWING NUMBER: C-721129		TITLE: SPECIAL LEVER CONTROLLER OVERALL DIMENSIONS		

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**NOTE:** 1. JOG LEVER COMES PRE-WIRED WITH 4' (1.2m) OF CABLE.

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**TOLERANCES:** (UNLESS SPECIFIED OTHERWISE)

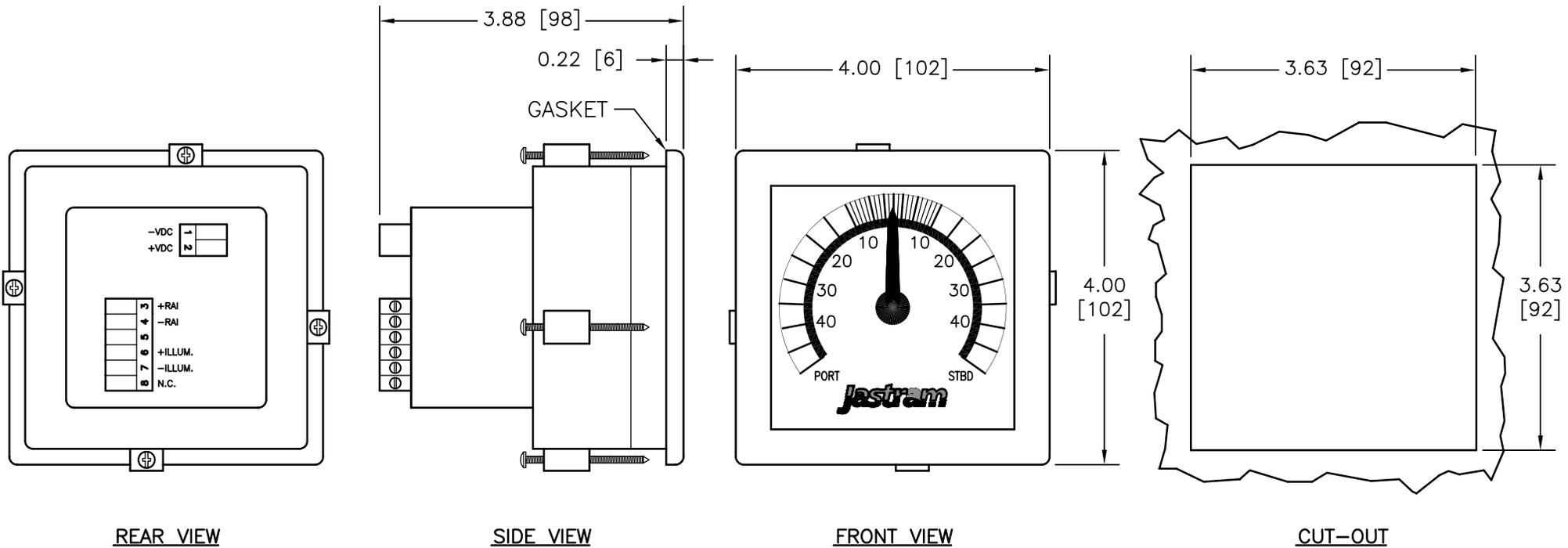
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	
ALL DIMENSIONS IN INCH(mm)			

A	28-03-94	SEE DCN 940031	
REV.	DATE	DRAWING/DESIGN CHANGE No.	BY

**Jastram**

JASTRAM ENGINEERING LTD.  
 135 Riverside Drive  
 North Vancouver, B.C.  
 Canada V7H 1T6  
 Tel.: (604) 988-1111  
 Fax: (604) 986-0334

DATE: (D/M/Y) 28-03-94	SCALE: N.T.S.	DRAWN: G.L.	APPR. G.C.   L.L. ENG.   PROD.
TITLE: JOG LEVER OVERALL DIMENSIONS			DRAWING NUMBER: A-721018



- NOTES:**
1. RUDDER ORDER INDICATOR (ROI 380) IS IDENTICAL EXCEPT  $\pm$ ROI TERMINALS REPLACE  $\pm$ RAI.
  2. INDICATOR PROTECTION RATING: IP 52 (STANDARD), IP 66 (WITH OPTIONAL GASKET AND ADDITIONAL MOUNTING CLIPS).
  3. SEE RUDDER ANGLE INDICATOR CONFIGURATION (B-741246) FOR OPTIONAL DIMMER CONNECTION DETAILS.

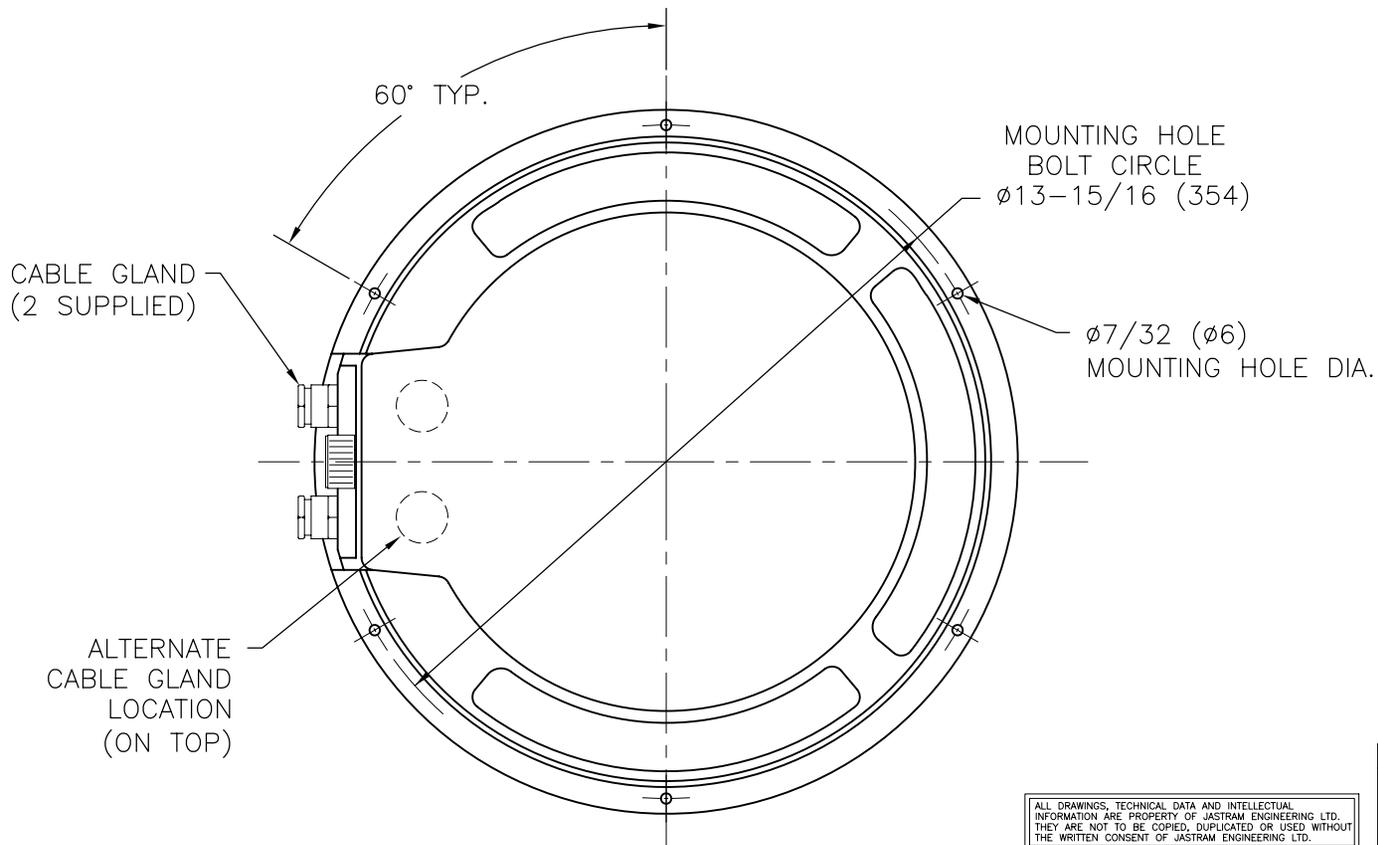
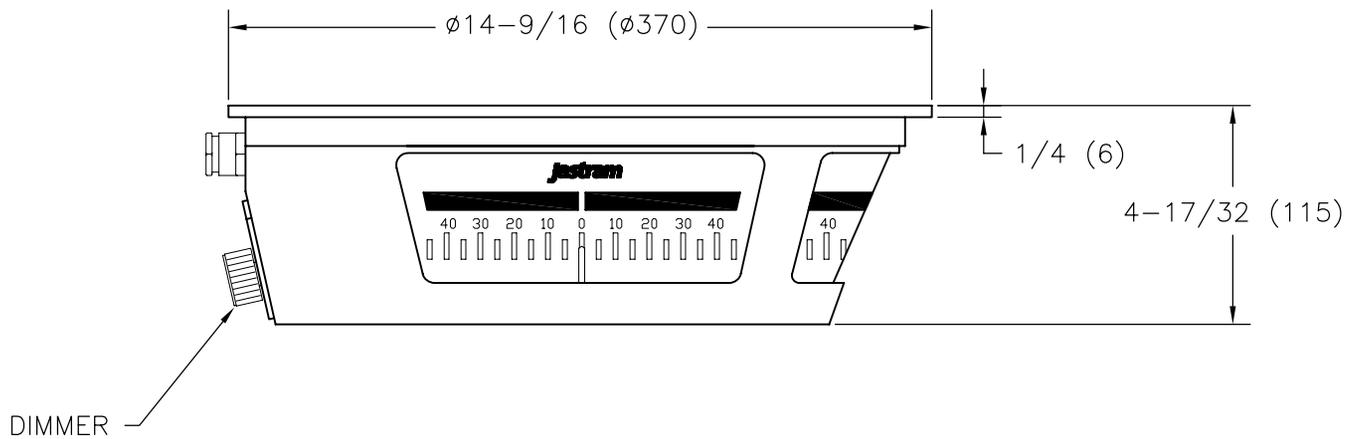
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**TOLERANCES:** (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	

ALL DIMENSIONS IN INCH(mm)

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: 23-10-06	SCALE: 3/4":1"	DRAWN: A.L.	APPR:  N/A
TITLE: RUDDER ANGLE INDICATOR (RAI 380) O.A.D.			DRAWING NUMBER: B-721242



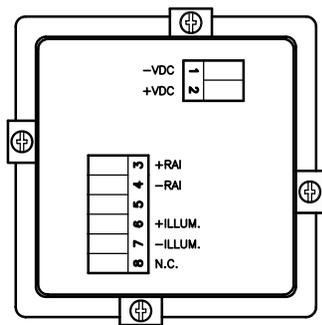
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

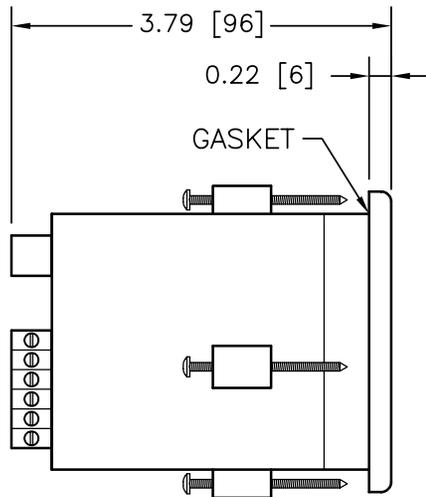
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓

ALL DIMENSIONS IN INCH(mm)

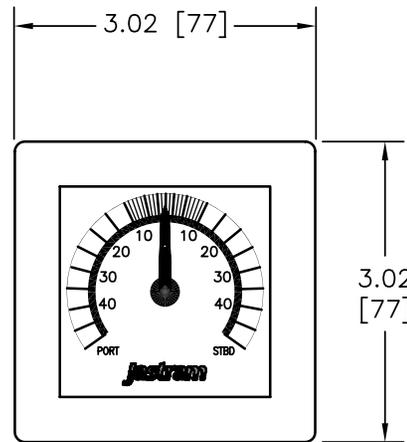
REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334			
DATE: 18-03-05	SCALE: 1/2":1"	DRAWN: G.Q.	APPR: [Signature] N/A
TITLE: 3-FACE RUDDER ANGLE INDICATOR (RAI 3300) OVERALL DIMENSIONS			DRAWING NUMBER: C-721204



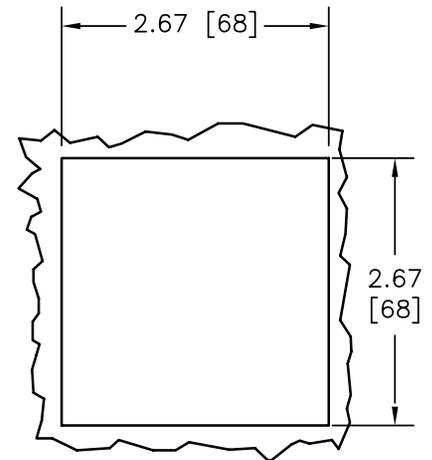
REAR VIEW



SIDE VIEW



FRONT VIEW



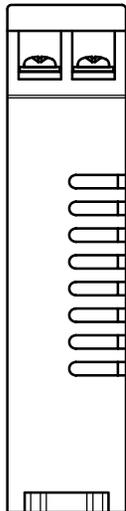
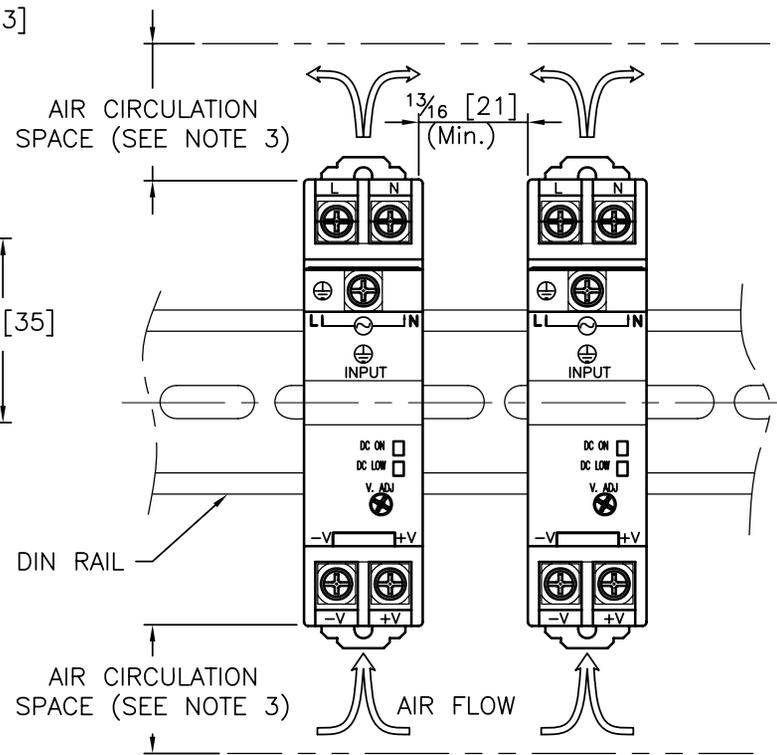
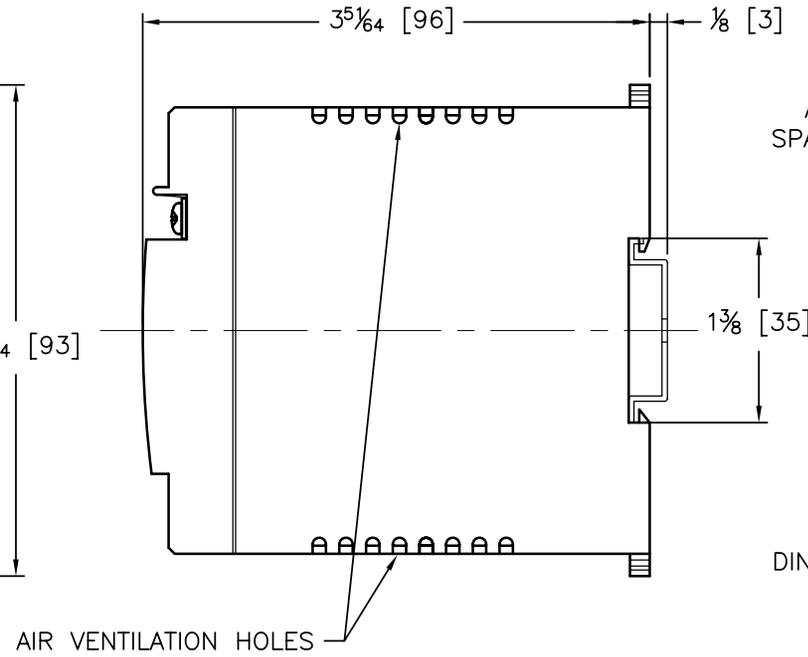
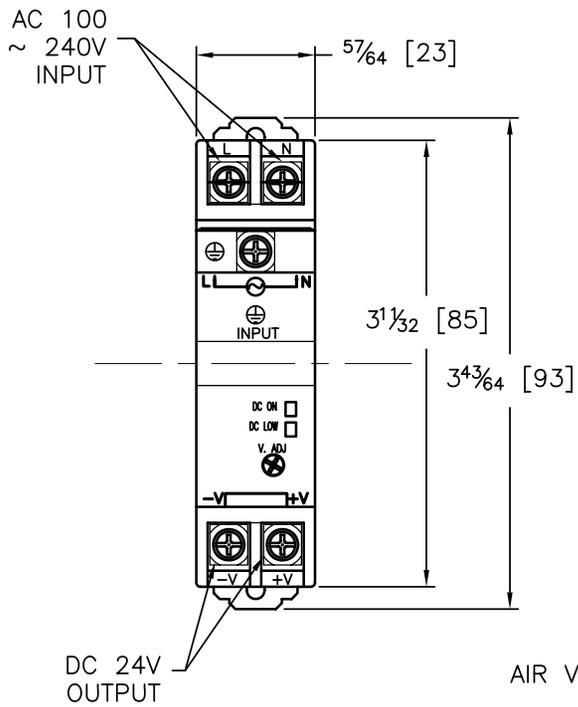
CUT-OUT

- NOTES:
1. RUDDER ORDER INDICATOR (ROI 280) IS IDENTICAL EXCEPT  $\pm$ ROI TERMINALS REPLACE  $\pm$ RAI.
  2. INDICATOR PROTECTION RATING: IP 52 (STANDARD), IP 66 (WITH OPTIONAL GASKET AND ADDITIONAL MOUNTING CLIPS).
  3. SEE RUDDER ANGLE INDICATOR CONFIGURATION (B-741246) FOR OPTIONAL DIMMER CONNECTION DETAILS.

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TOLERANCES:				(UNLESS SPECIFIED OTHERWISE)	
X.X	+/- 0.1	FRACTION		+/- 1/64	
X.XX	+/- 0.01	ANGULAR		+/- 0.5 DEG.	
X.XXX	+/- 0.005	SURFACE FINISH			
ALL DIMENSIONS IN INCH(mm)					

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: 23-10-06	SCALE: 3/4":1"	DRAWN: A.L.	APPR: <i>[Signature]</i> N/A ENG. PROD.
TITLE: RUDDER ANGLE INDICATOR (RAI 280) O.A.D.			DRAWING NUMBER: B-721241



- NOTES:**
- HOT SURFACE EXISTS ON THE POWER SUPPLY. PRECAUTION FOR SAFE USE.
  - THIS PRODUCT DOES NOT SUPPORT PARALLEL OPERATION. DO NOT OPERATE 2 POWER SUPPLIES WITH A COMMON LOAD.
  - LEAVE AT LEAST 3 INCHES (75 mm) CLEARANCE AROUND THE POWER SUPPLY FOR AIR FLOW CIRCULATION.

STANDARD SIDE BY SIDE MOUNTING ILLUSTRATION

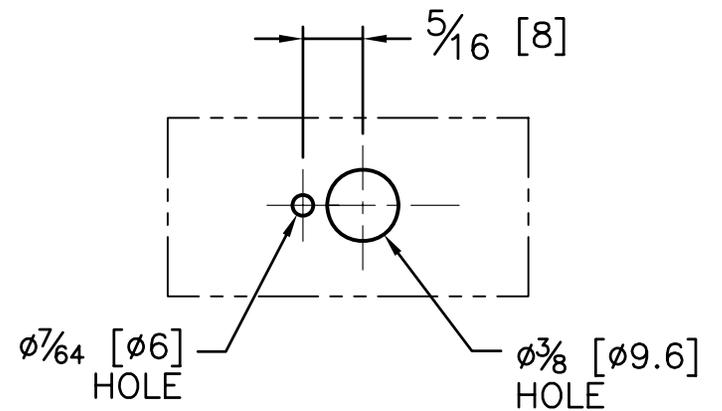
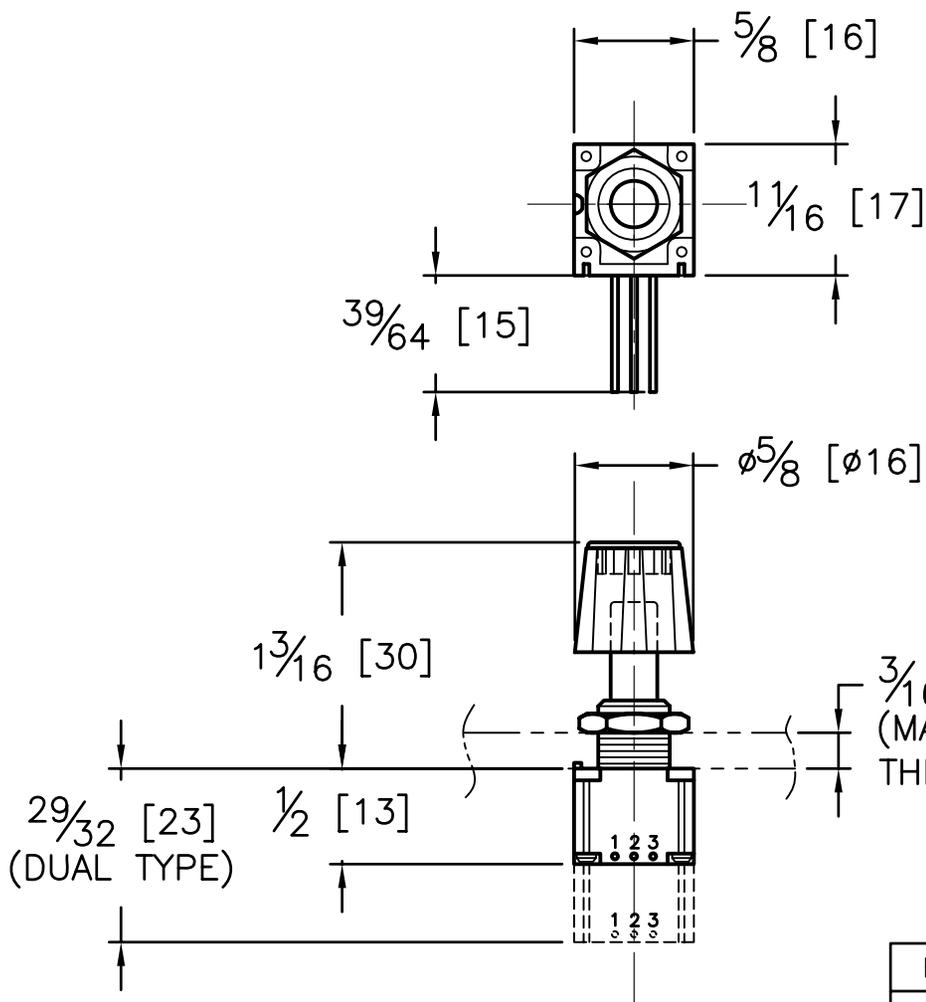
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**TOLERANCES:** (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	125/

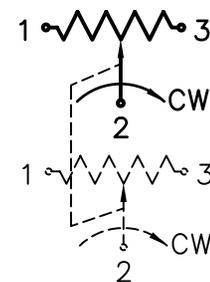
ALL DIMENSIONS IN INCH(mm)

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE: 16-09-11	SCALE: 1":1"	DRAWN: P.K.	APP.  N/A
TITLE: INDICATOR AC/DC CONVERTER OVERALL DIMENSIONS			DRAWING NUMBER: B-721334



PANEL CUT OUT

SCHEMATIC



$3/16$  [5]  
(MAXIMUM PANEL THICKNESS)

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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	125/

ALL DIMENSIONS IN INCH(mm)

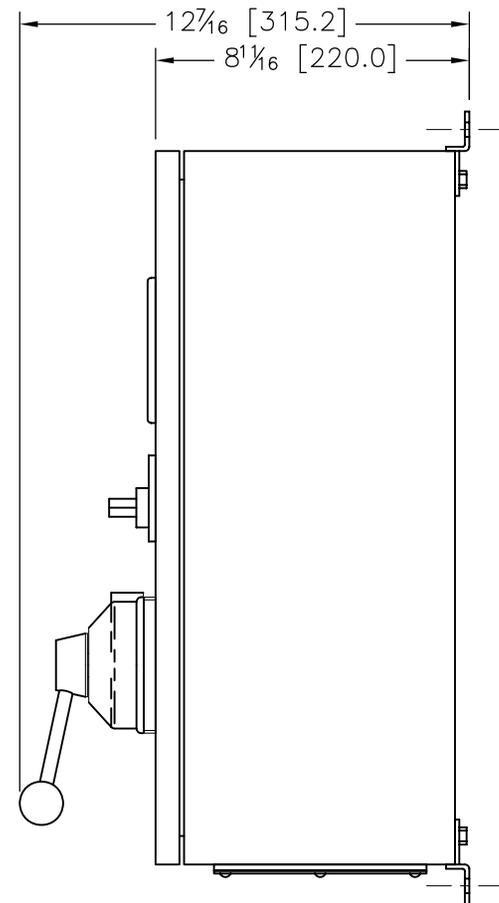
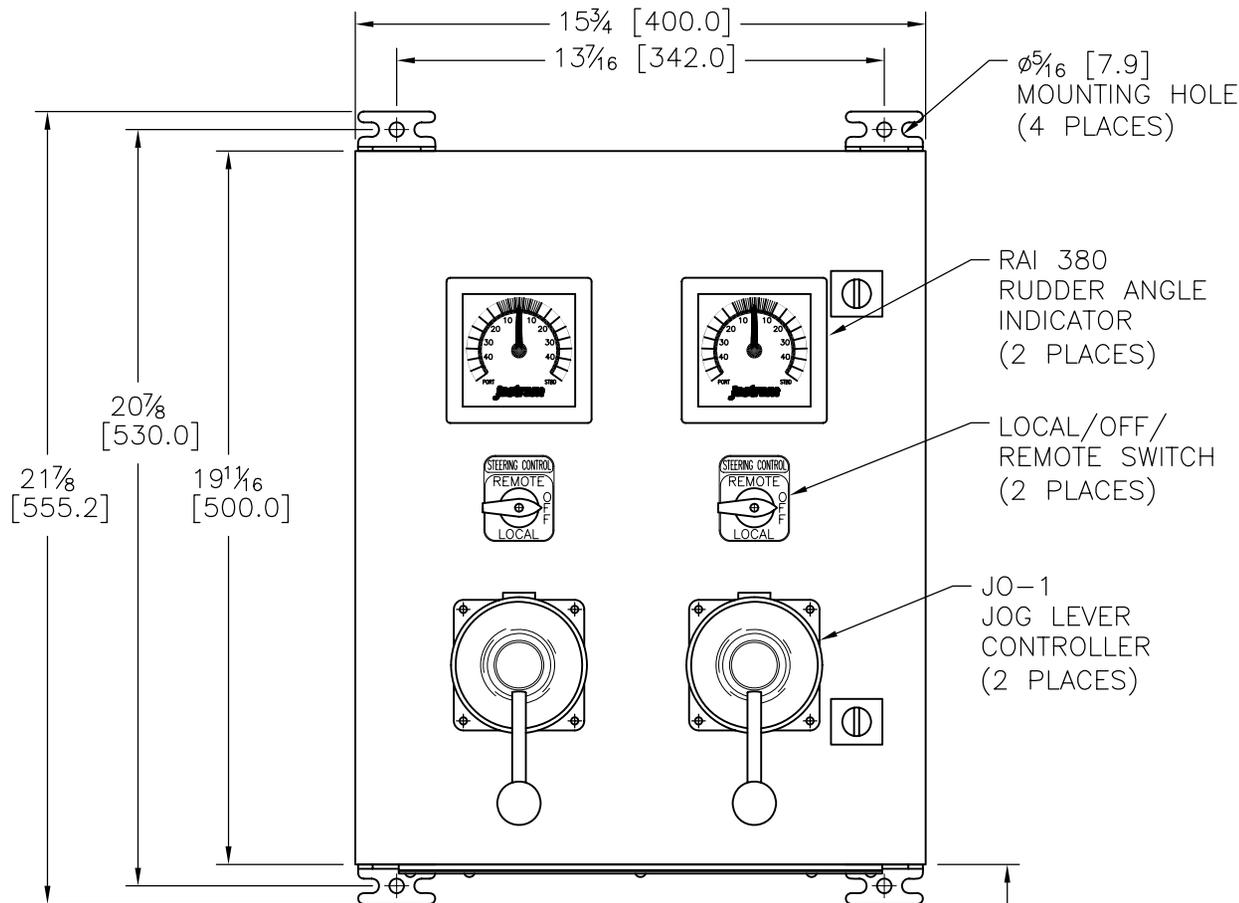
REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
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**Jastram**

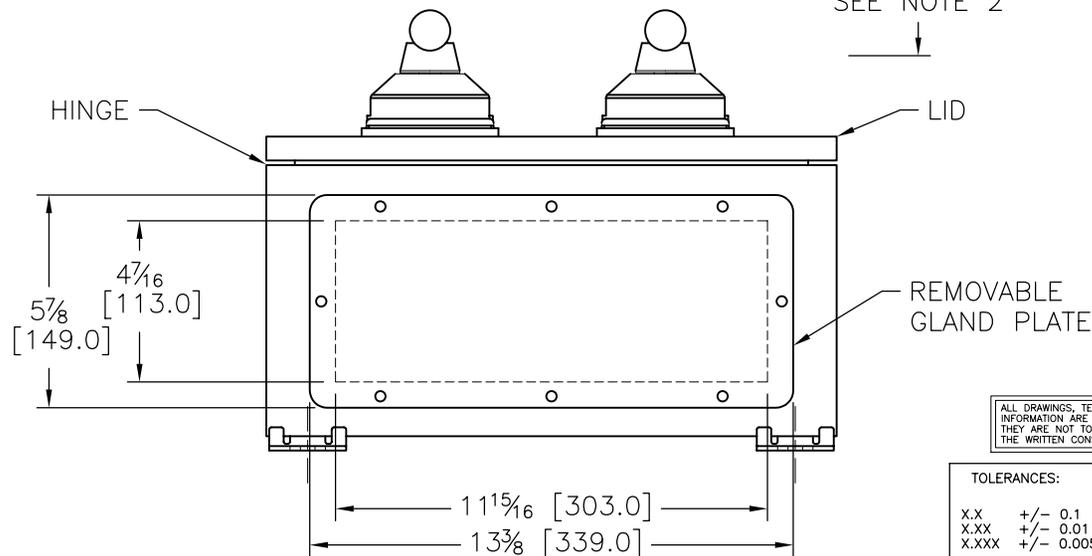
JASTRAM ENGINEERING LTD.  
135 Riverside Drive  
North Vancouver, B.C.  
Canada V7H 1T6  
Tel.: (604) 988-1111  
Fax: (604) 986-0334

DATE: 02-09-09 (D/M/Y)	SCALE: 1":1"	DRAWN: P.K.	APPR: [Signature] N/A ENG. PROD.
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TITLE: RAI (ROI) X80 DIMMER POT OVERALL DIMENSIONS	DRAWING NUMBER: A-721291
--	-----------------------------



SEE NOTE 2



NOTES:

1. NEMA 4 ENCLOSURE.
2. LEAVE 4 INCHES (102mm) CLEARANCE FOR CABLE ENTRY.
3. LEAVE CLEARANCE FOR OPENING LID AND ACCESS TO INTERIOR.

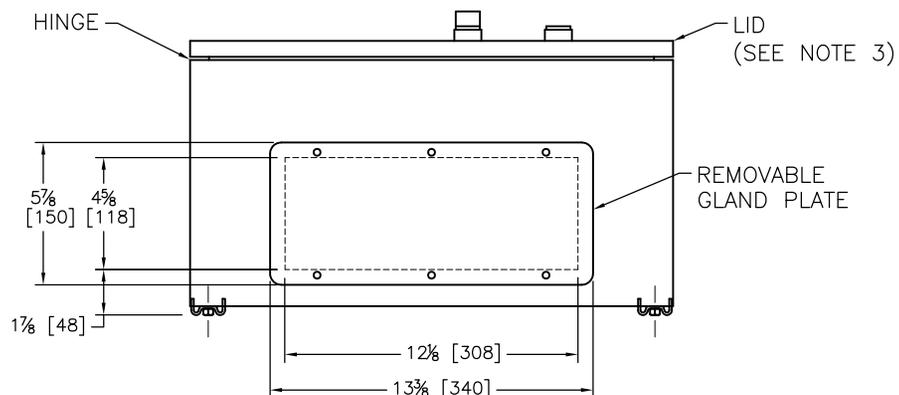
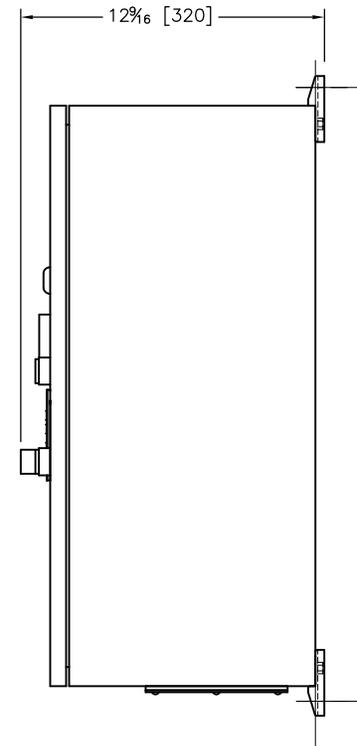
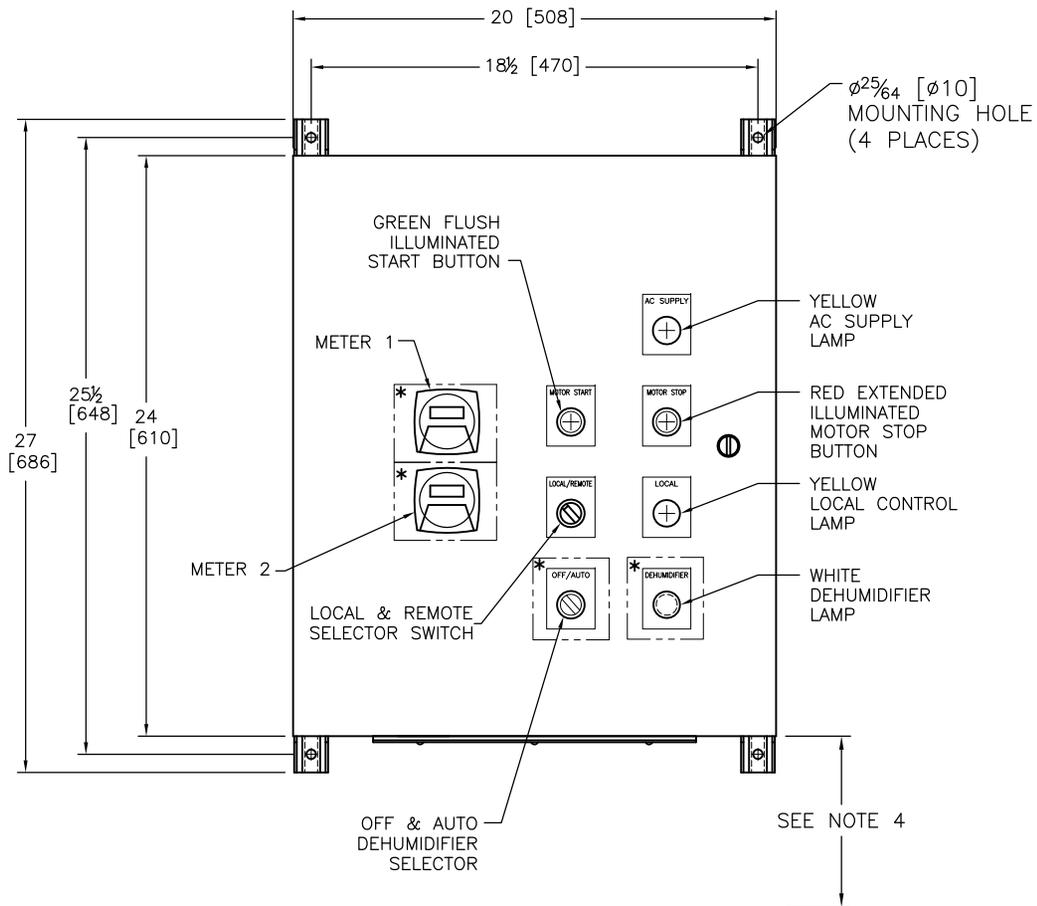
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/16
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓

ALL DIMENSIONS IN INCH(mm)

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334			
DATE:	12-06-07	SCALE:	3/8" : 1"
DRAWN:	A.L.	APPR:	[Signature]
TITLE:	EMERGENCY STATION JUNCTION BOX OVERALL DIMENSIONS		DRAWING NUMBER:
			C-721261



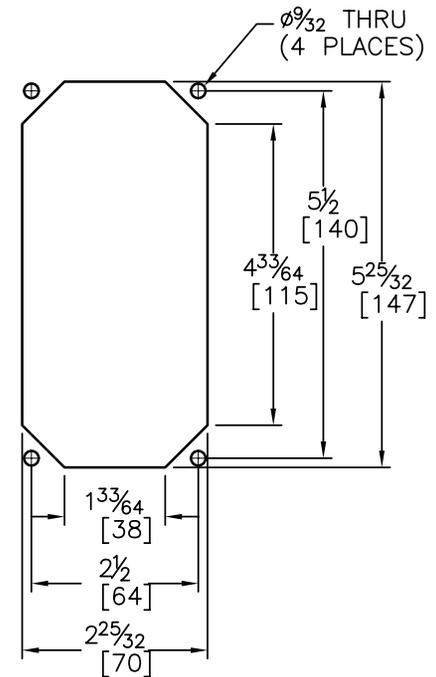
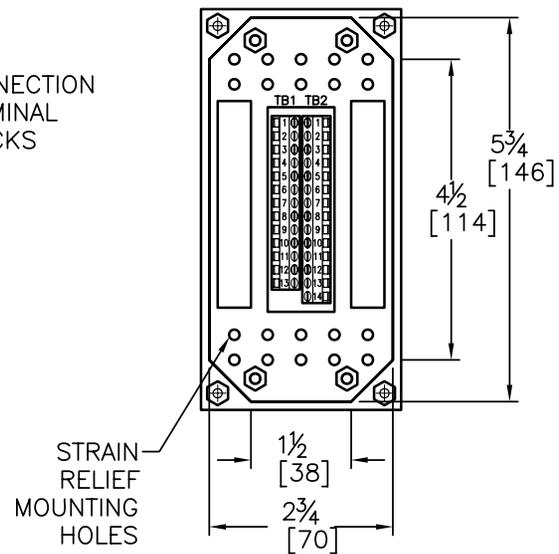
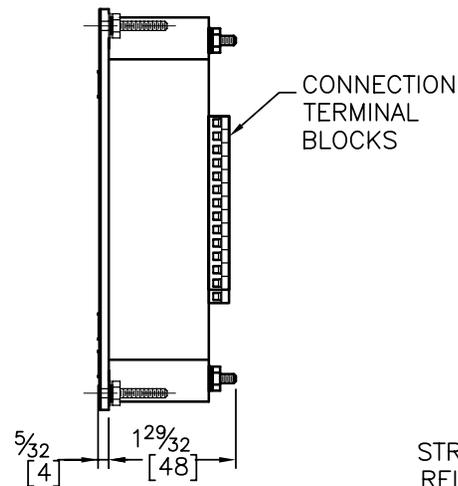
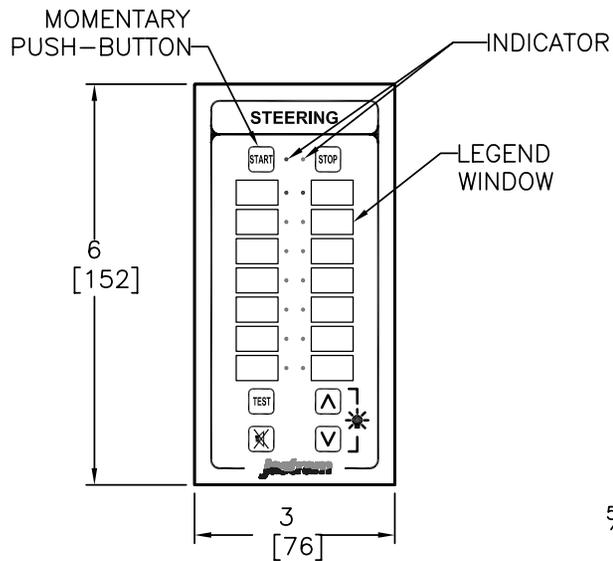
**NOTES:**

1. NEMA 4, IP 65 ENCLOSURE.
2. LEAVE 6 INCHES (152mm) CLEARANCE FOR CABLE ENTRY.
3. LEAVE CLEARANCE FOR SWING OF DOOR AND ACCESS TO INTERIOR.
4. \* MARKED ITEMS ARE OPTIONAL AND MAY NOT BE INCLUDED FOR ALL SYSTEMS.

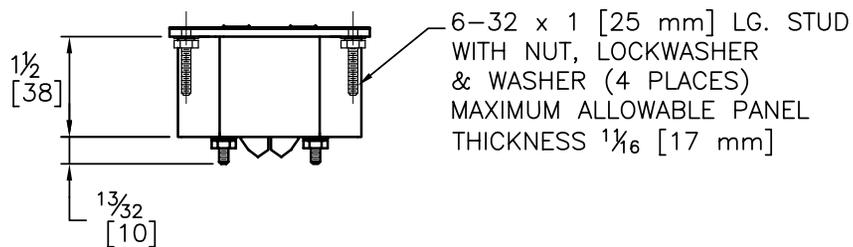
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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓
ALL DIMENSIONS IN INCH(mm)			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
<b>Jastram</b>			
JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334			
DATE: 29-05-14	SCALE: 1/8":1	DRAWN: P.K.	APPR. _____
TITLE: MOTOR STARTER & ALARM OVERALL DIMENSIONS			DRAWING NUMBER: C-721401



PANEL CUTOUT



NOTES:  
1. FOUR CABLE STRAIN RELIEF STRAPS SUPPLIED WITH COMPONENT.

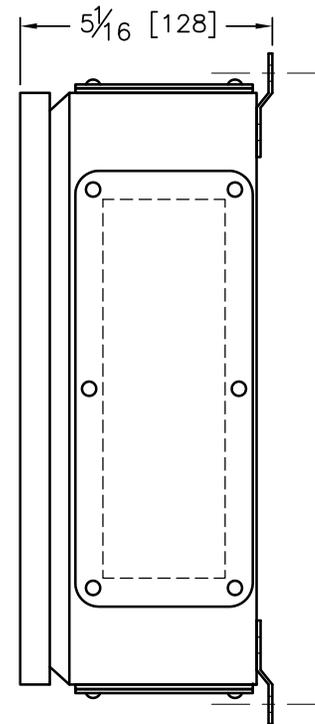
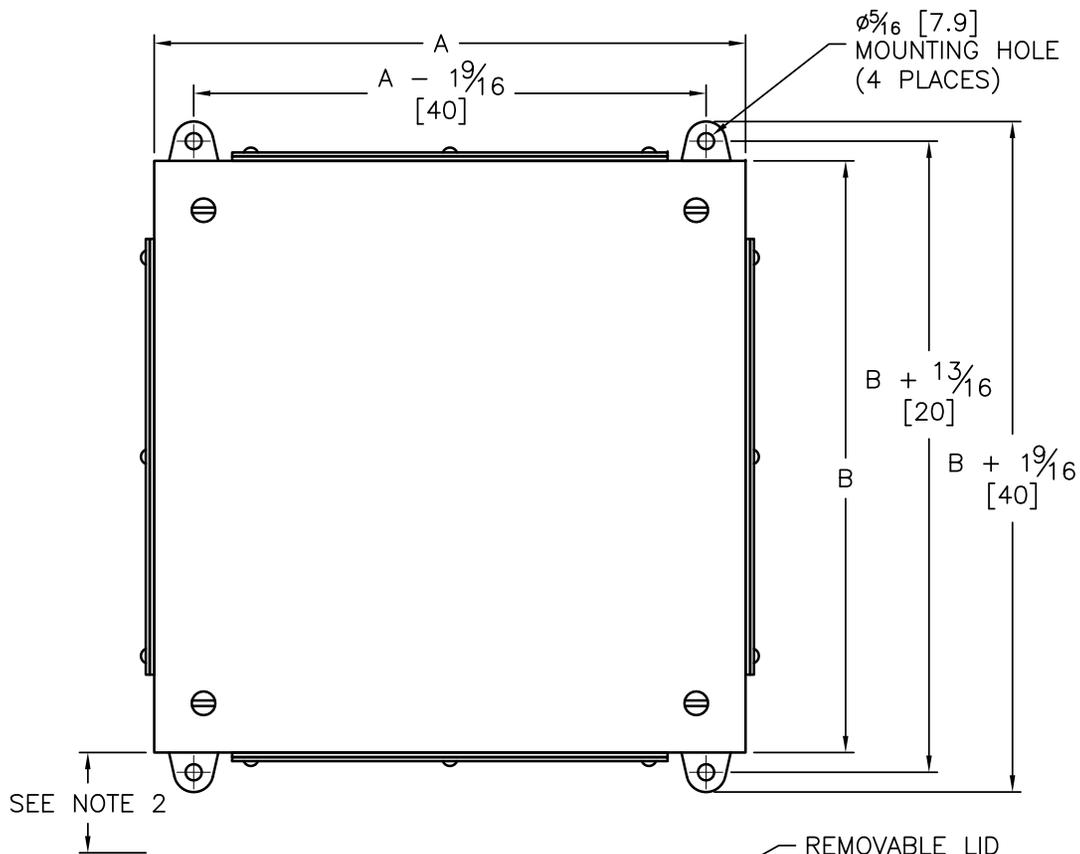
TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓

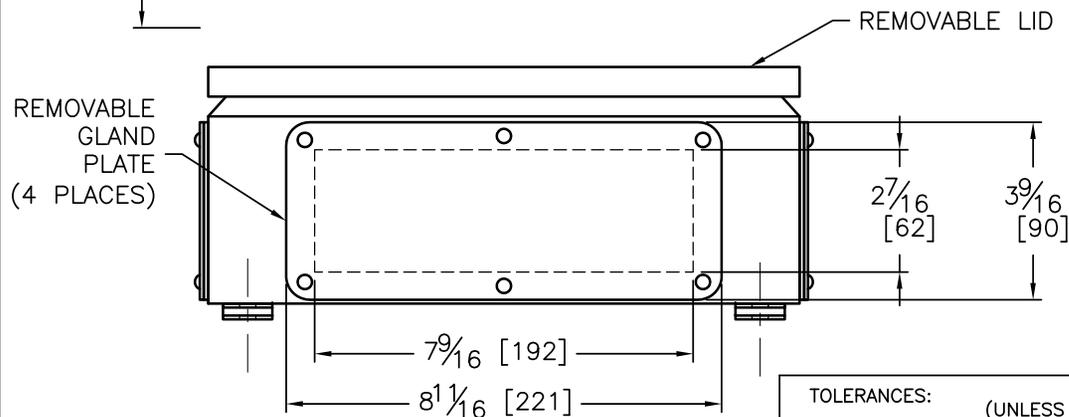
ALL DIMENSIONS IN INCH[mm]

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		JASTRAM ENGINEERING LTD. 135 Riverside Drive North Vancouver, B.C. Canada V7H 1T6 Tel.: (604) 988-1111 Fax: (604) 986-0334	
DATE:	22-09-10	SCALE:	1/2":1"
DRAWN:	P.K.	APPR:	P.K. N/A
TITLE:			DRAWING NUMBER:
AP 600 ALARM PANEL OVERALL DIMENSIONS			B-721311



	A	B
DIMENSIONS	$11^{13}/16$ [300]	$11^{13}/16$ [300]



**NOTES:**

1. NEMA 12 ENCLOSURE.
2. LEAVE 4 INCHES (102mm) CLEARANCE FOR CABLE ENTRY.
3. LEAVE CLEARANCE FOR REMOVAL OF LID AND ACCESS TO INTERIOR.

TOLERANCES: (UNLESS SPECIFIED OTHERWISE)

X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	125/

ALL DIMENSIONS IN INCH(mm)

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DATE: (D/M/Y)	04-05-06	SCALE: 3/8:1	DRAWN: A.L. APPR: [Signature] ENG. N/A PROD.
TITLE: HYDRAULIC LOCK PROCESSOR BOX OVERALL DIMENSIONS			DRAWING NUMBER: B-721230