

4/5/23
REV 2

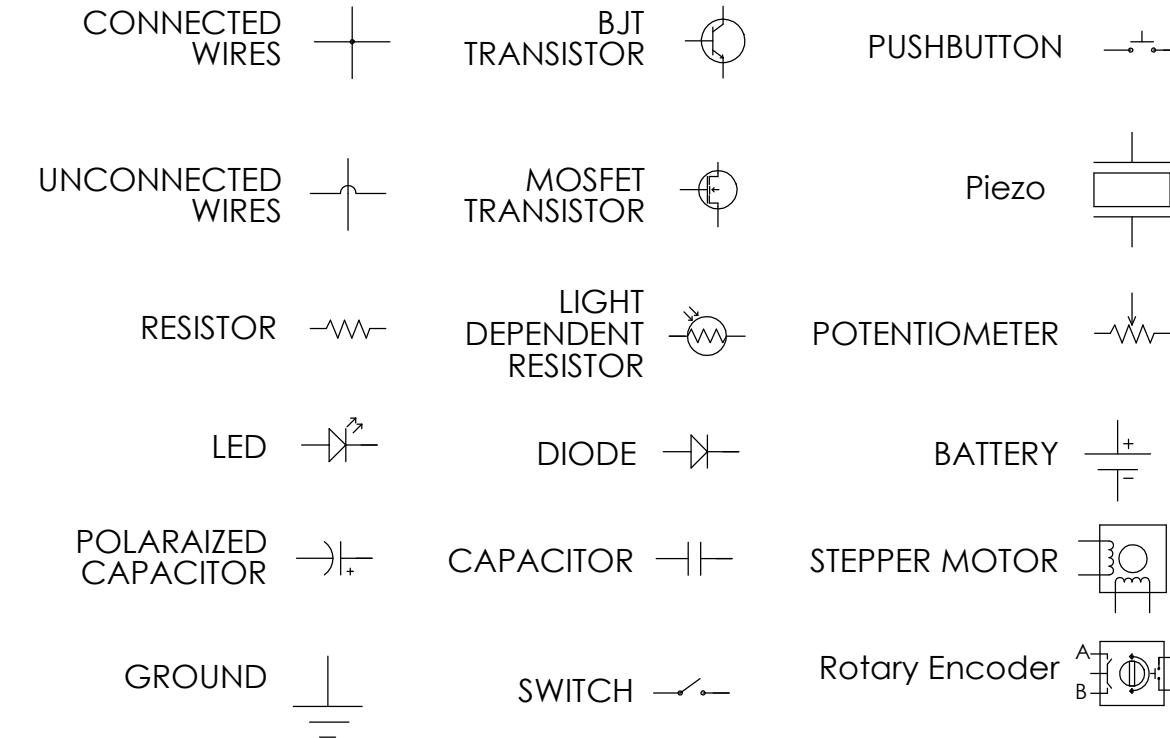


Utilis Simia: Blinds Controller Drawing Package



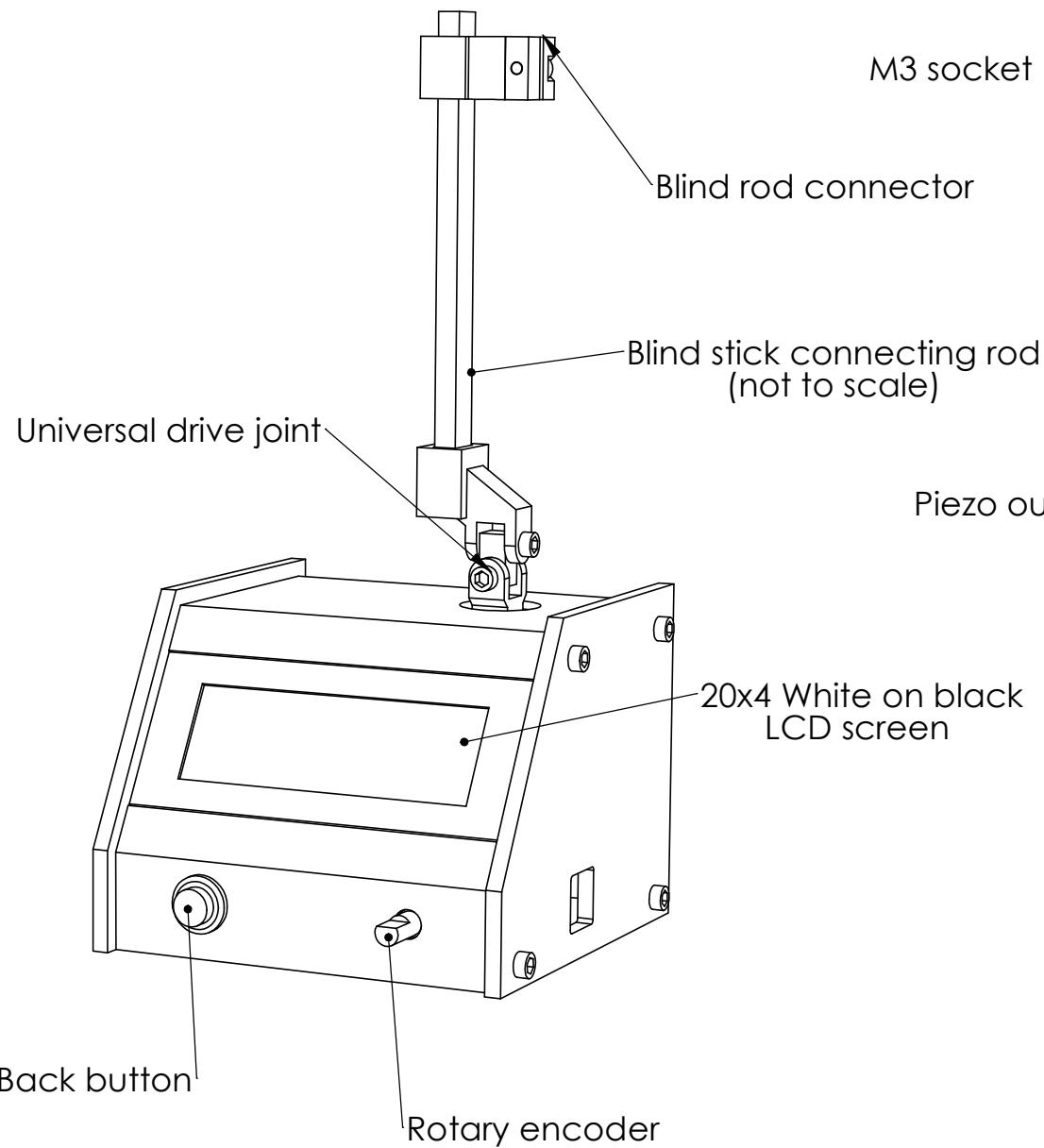
DESIGNER	REV #	DATE	GEORGE FOX UNIVERSITY	
OH	2	4/05/23		
COMMENTS:		DRAWING NAME:		
			Title Page	
QUANTITY		SIZE	DWG. NO.	1 of 6
A			US01-TP01	

STANDARD ELECTRICAL SYMBOLS

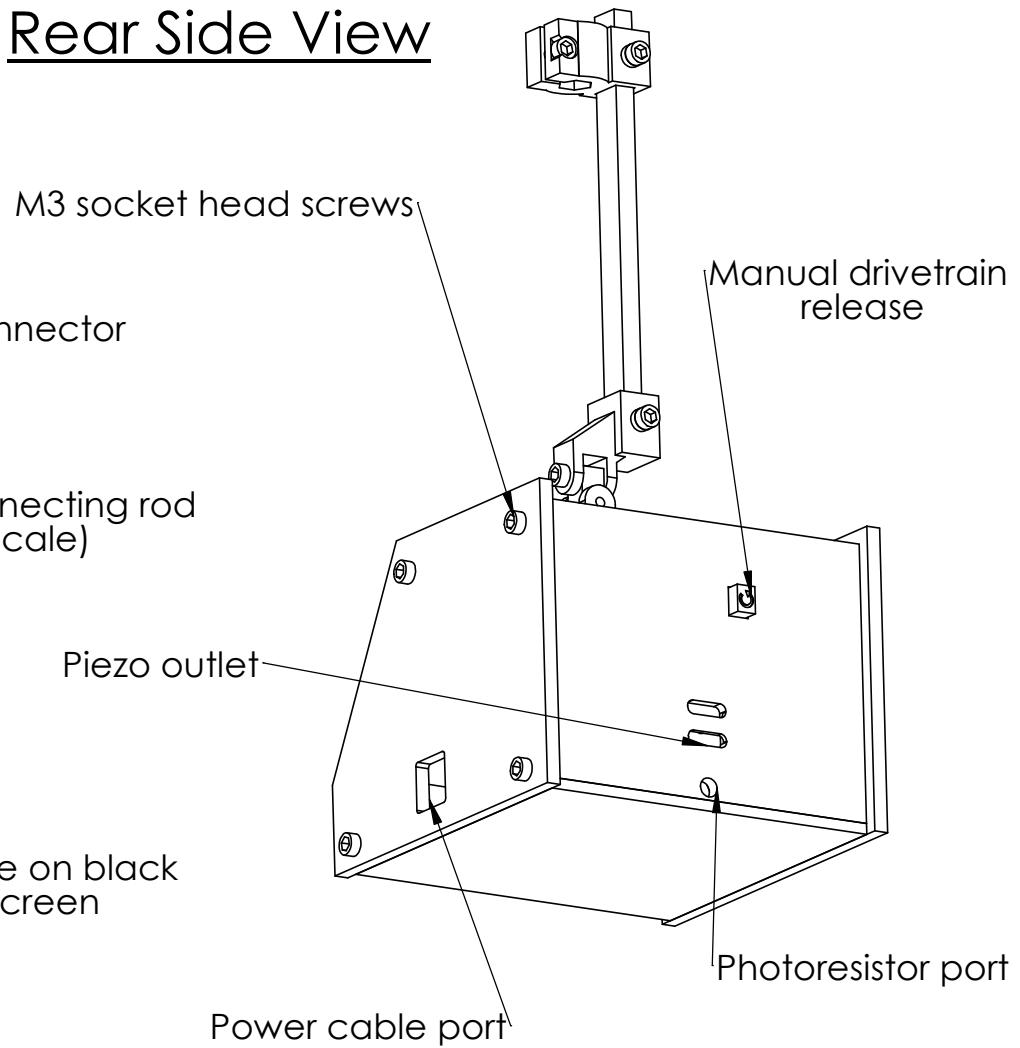


<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGNER</td><td style="width: 33%;">REV #</td><td style="width: 33%;">DATE</td></tr> <tr> <td>OH</td><td>2</td><td>4/05/23</td></tr> </table> <p>COMMENTS: All Standard Electrical symbols in the wiring details drawing will be shown here</p>	DESIGNER	REV #	DATE	OH	2	4/05/23	GEORGE FOX UNIVERSITY DRAWING NAME: Table of Standard Electrical Symbols	SIZE A DWG. NO. US01-ES01 SHEET 2 of 6
DESIGNER	REV #	DATE						
OH	2	4/05/23						
QUANTITY								

Front Side View



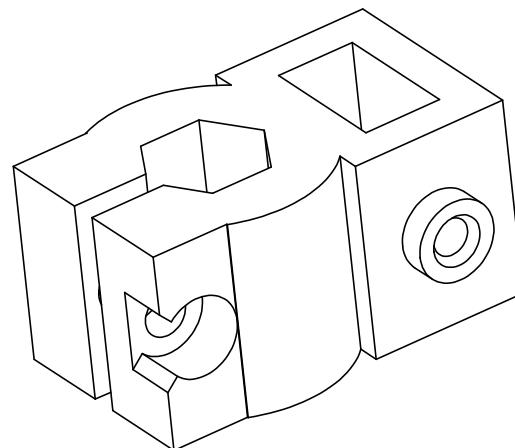
Rear Side View



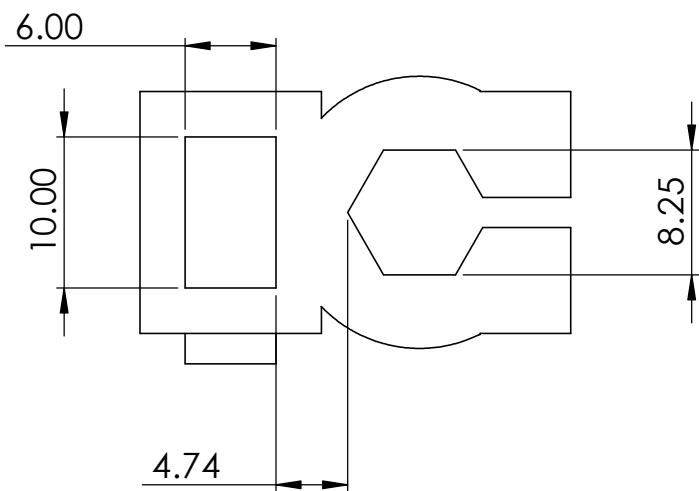
Scale: 1:1.5

DESIGNER	REV #	DATE
TU	2	4/5/2023
COMMENTS: OVERALL DRAWING OF THE MECHANICAL SYSTEM		
DRAWING NAME: GEORGE FOX UNIVERSITY Mechanical Overview		
QUANTITY	1 of 1	SIZE DWG. NO. A SS01-MO01
		SHEET 3

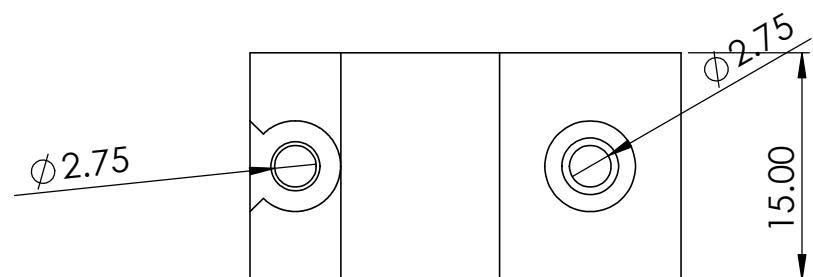
Isometric View



Top View



Side View



Units: MMGS

Scale: 2:1

DESIGNER	REV #	DATE
TU	2	4/5/2023

COMMENTS:
Blind rod interface

GEORGE FOX UNIVERSITY

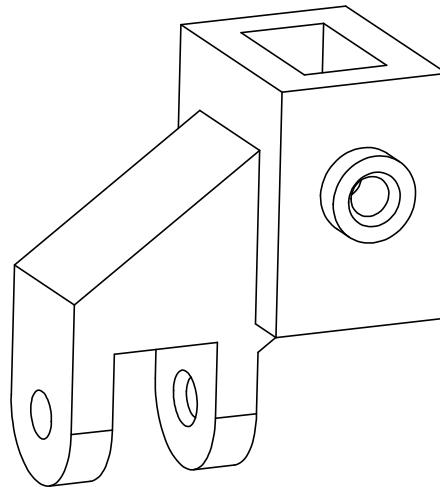
DRAWING NAME:
Mechanical Details
Drawing

QUANTITY 1 of 13

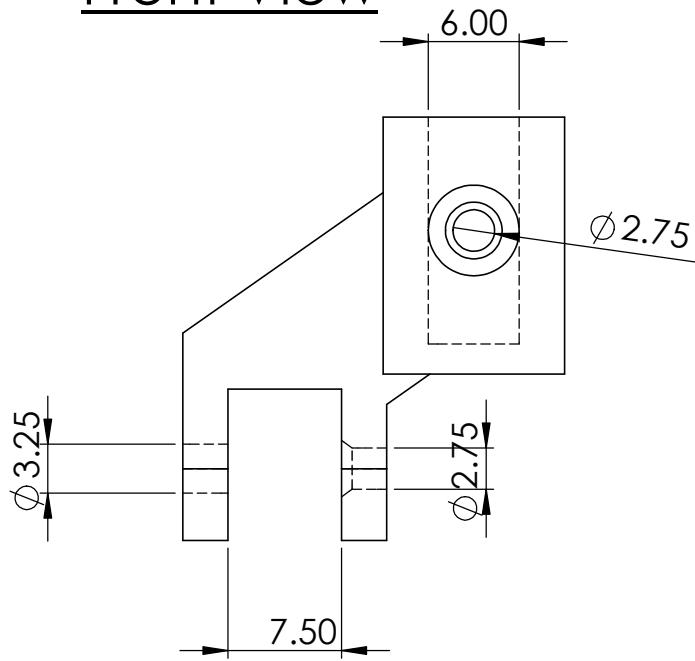
SHEET 4 of 6

SIZE A
DWG. NO.
SS01-M001

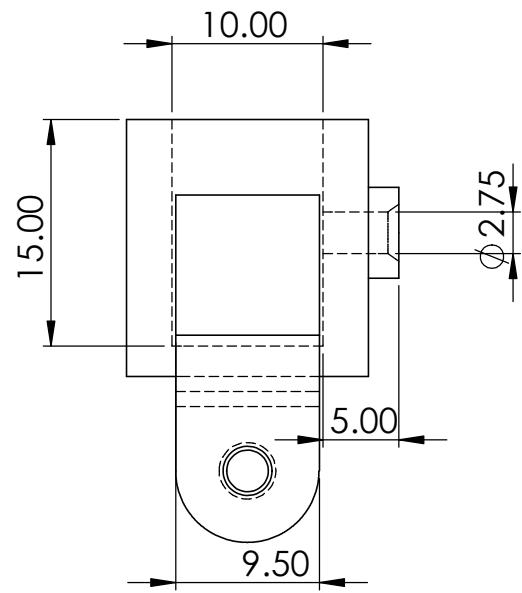
Isometric View



Front View



Side View



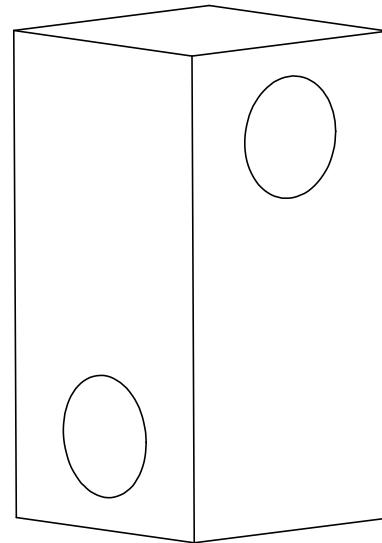
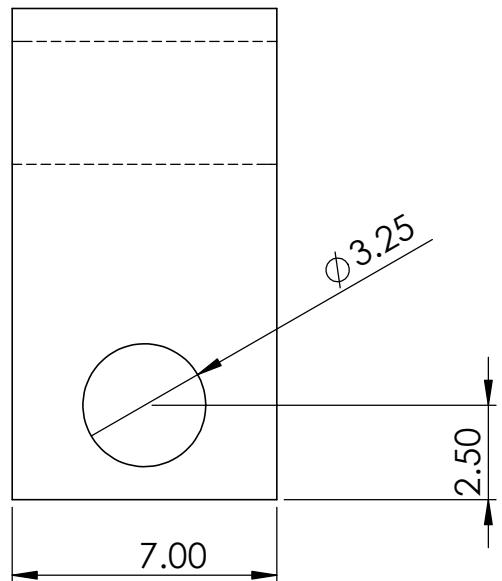
Units: MMGS

Scale: 2:1

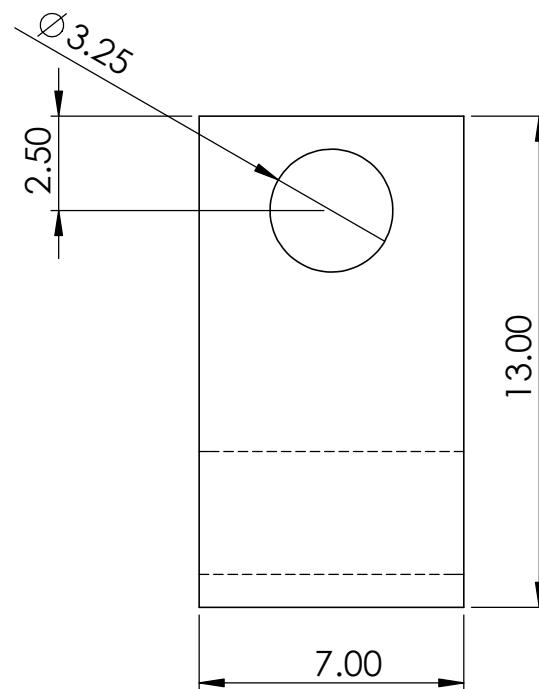
DESIGNER	REV #	DATE
TU	2	4/5/2023
COMMENTS: Universal joint top		
DRAWING NAME:		
GEORGE FOX UNIVERSITY Mechanical Details Drawing		
QUANTITY	2 of 13	SIZE DWG. NO.
A	SS01-M001	SHEET 4 of 6

Isometric View

Side View



Front View



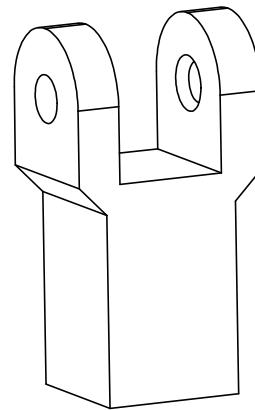
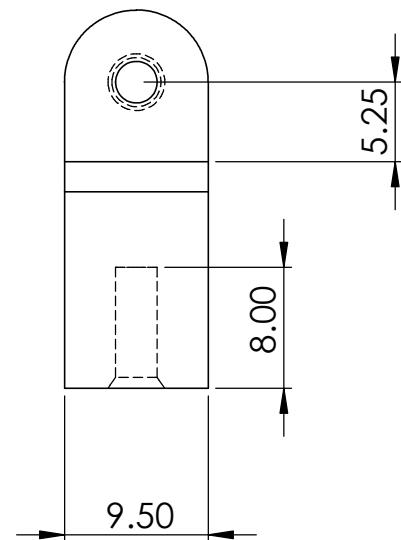
Units: MMGS

Scale: 5:1

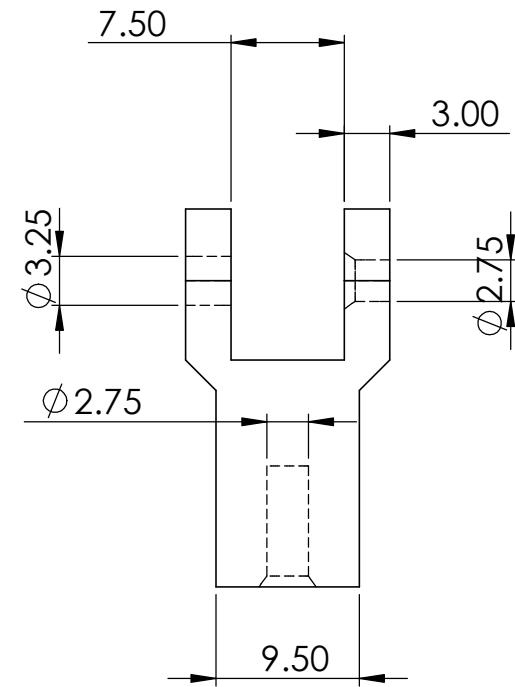
DESIGNER TU	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: Universal joint middle connector		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 3 of 13	SIZE A	DWG. NO. SS01-M001	SHEET 4 of 6	

Isometric View

Side View



Front View

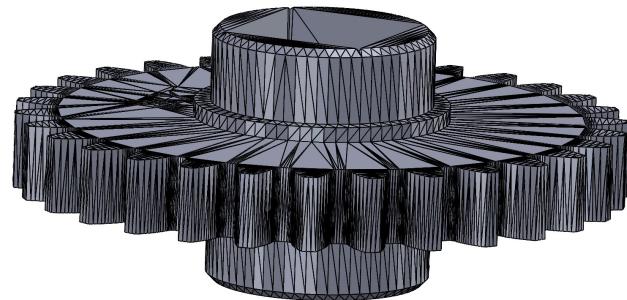


Units: MMGS

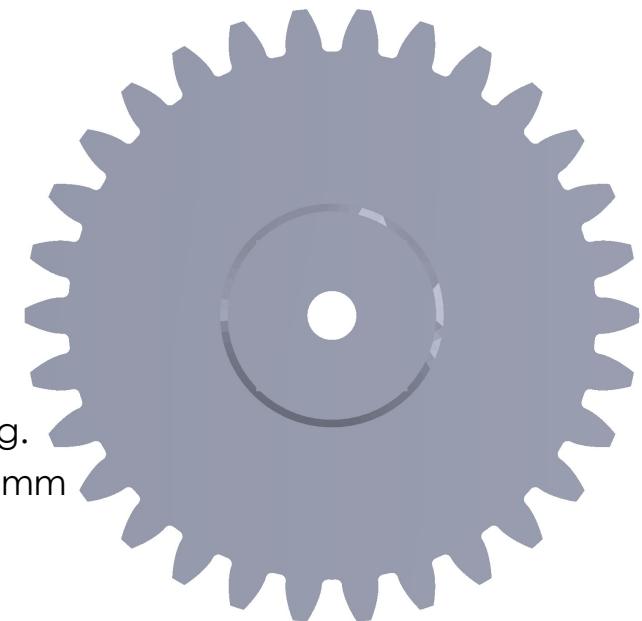
Scale: 2:1

DESIGNER TU	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: Universal joint output		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 4 of 13	SHEET A	DWG. NO. SS01-MO01	4 of 6	

Isometric View (STL from FM Gears)

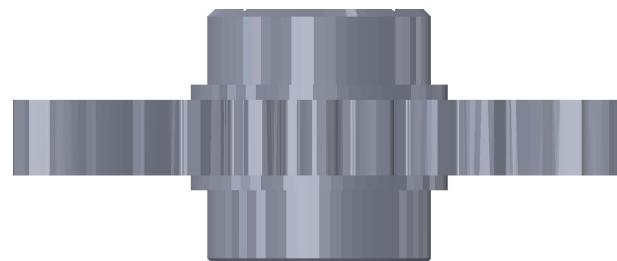


Top View



Side View

Journal diameter: 14.8 mm



Module: 1.27

Thickness: 5.00 mm

Teeth: 30

Pressure angle: 20 deg.

Root fillet radius: 0.40 mm

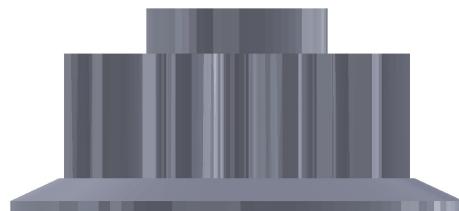
Units: MMGS

Scale: 2:1

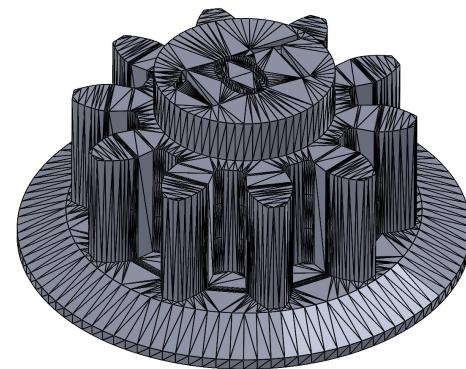
DESIGNER TU	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: STL of the 30 tooth spur gear		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 5 of 13	SIZE A	DWG. NO. SS01-MO01	SHEET 4 of 6	

Isometric View (STL from FM Gears)

Front Side View



Module: 1.27
Thickness: 5.50 mm
Teeth: 10
Pressure angle: 20 deg.
Root fillet radius: 0.40 mm



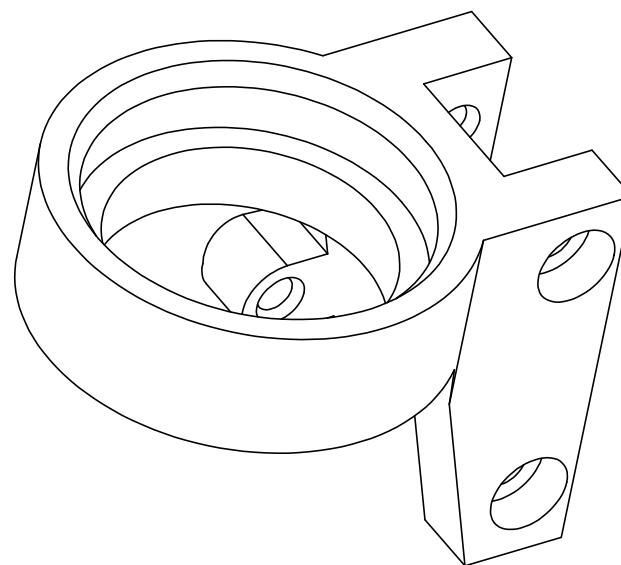
Isometric View



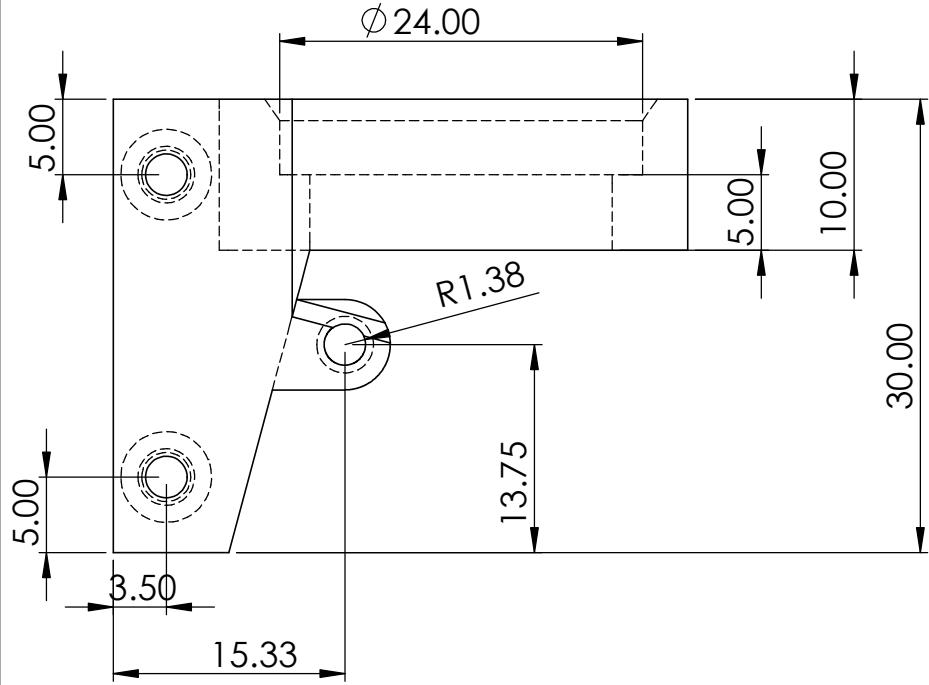
Units: MMGS Scale: 3:1

DESIGNER	REV #	DATE	GEORGE FOX UNIVERSITY			
TU	2	4/5/2023				
COMMENTS: STL of the 10 tooth pinion		DRAWING NAME: Mechanical Details Drawing				
QUANTITY		SIZE DWG. NO.				
6 of 13		A SS01-M001		SHEET 4 of 6		

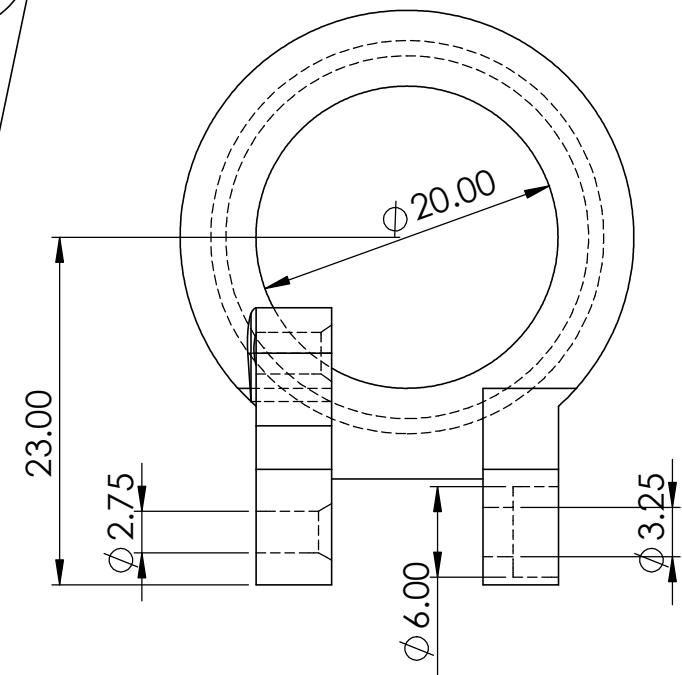
Isometric View



Side View



Bottom View

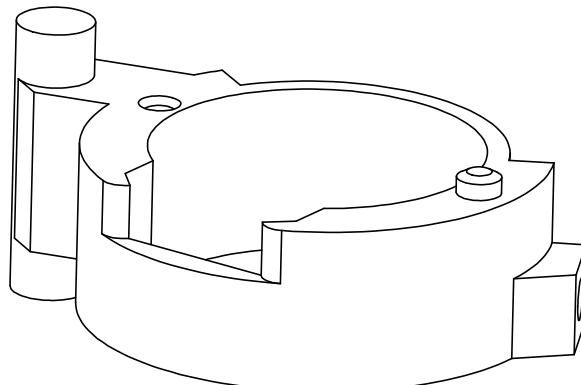


Units: MMGS

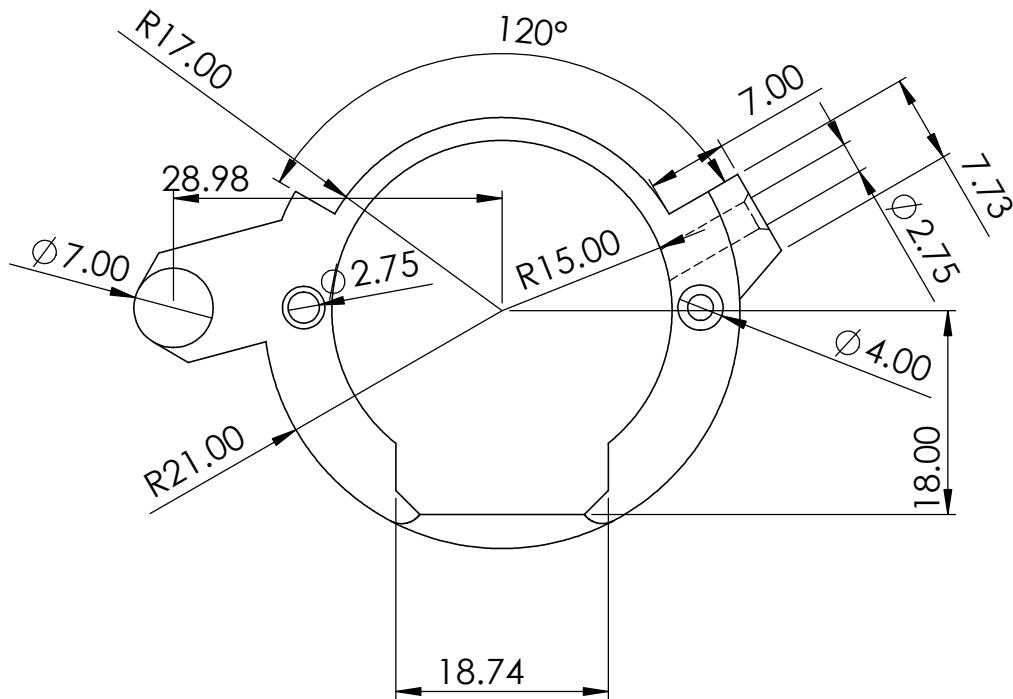
Scale: 2:1

DESIGNER TU	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY
COMMENTS: Bearing block			DRAWING NAME:
Mechanical Details Drawing			
QUANTITY 7 of 13	SIZE A	DWG. NO. SS01-MO01	SHEET 4 of 6

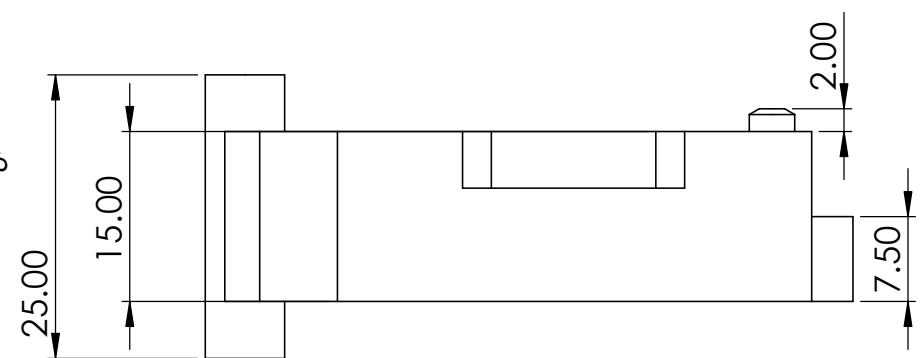
Isometric View



Top View



Front View

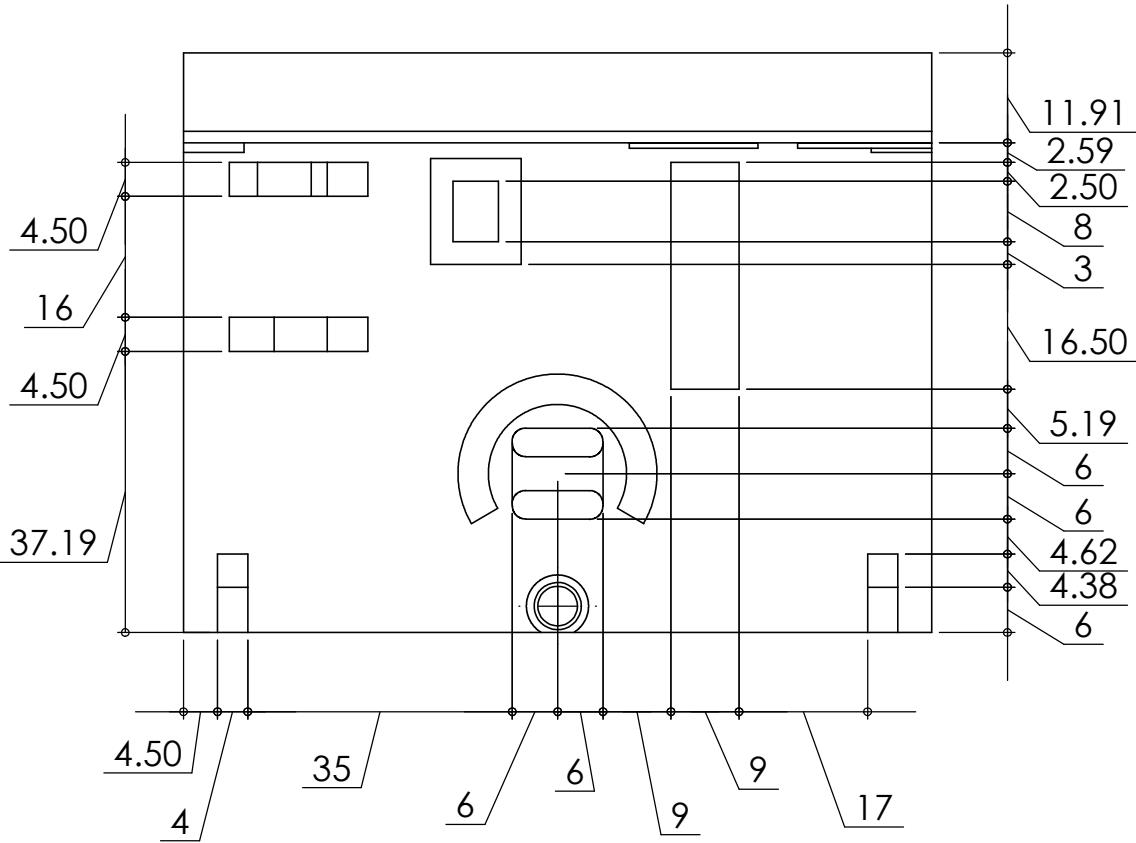


Units: MMGS

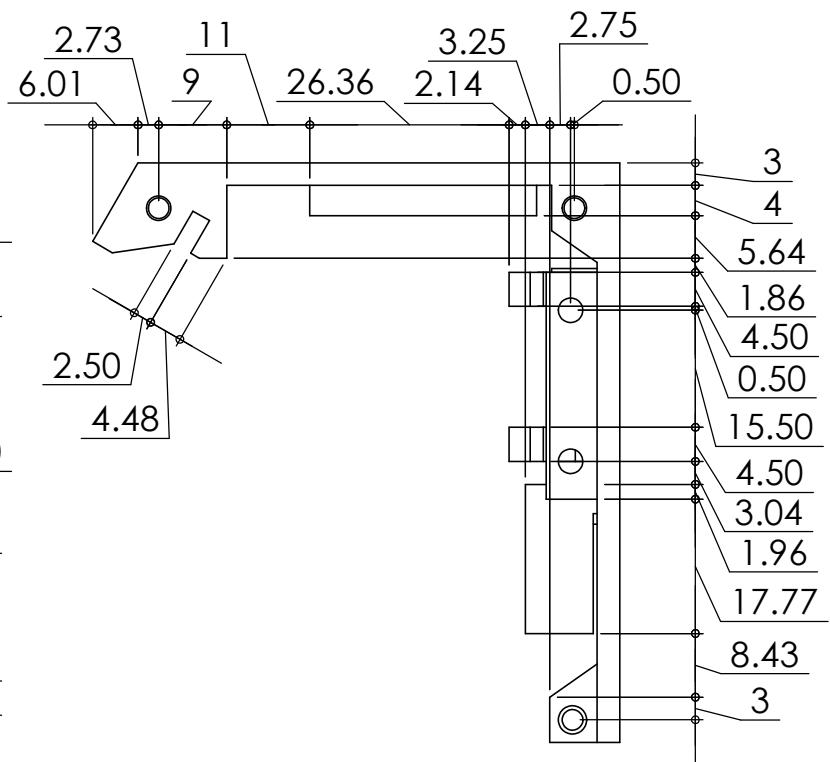
Scale: 1.5:1

DESIGNER TU	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: Stepper motor swinging mount		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 8 of 13		SHEET A	SIZE DWG. NO. SS01-M001	4 of 6

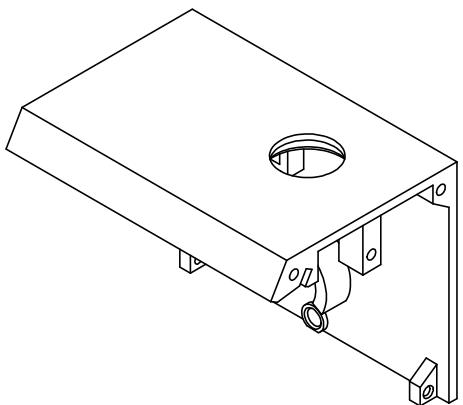
Front Side View



Rear Side View



Isometric View

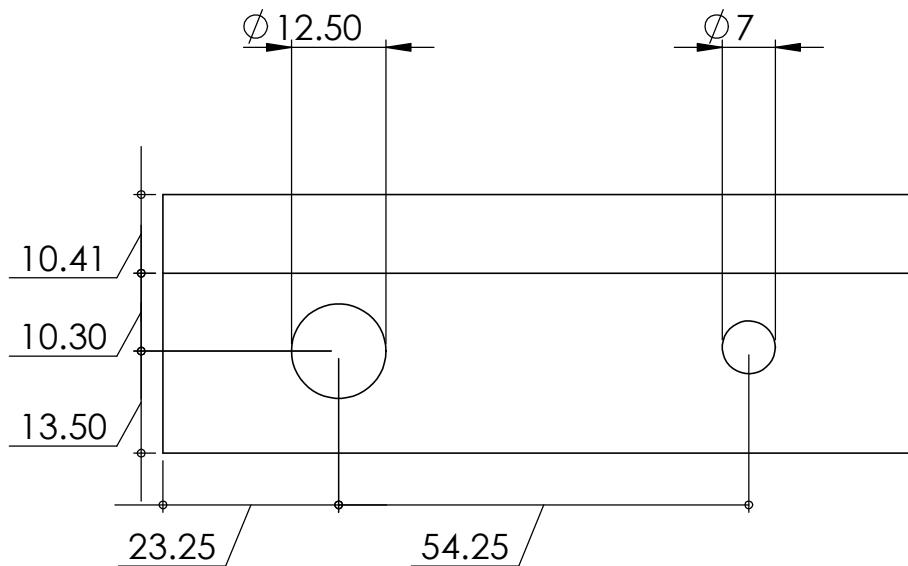


Units: MMGS

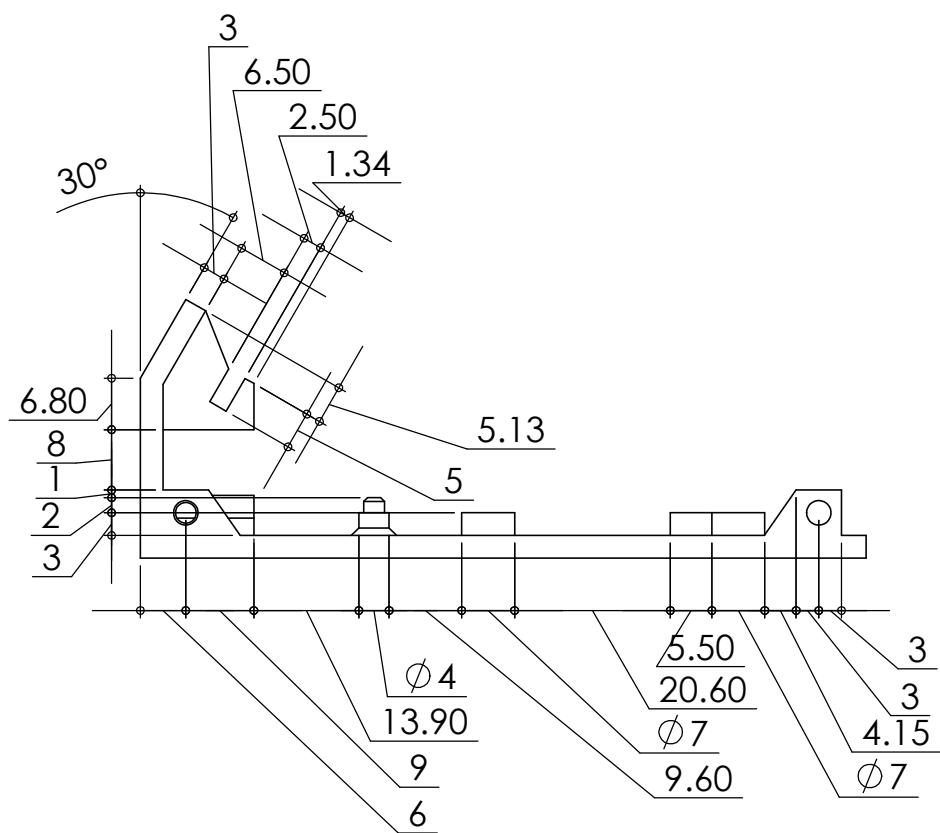
Scale: 1:1

DESIGNER JS	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: TOP SHELL MECHANICAL DESIGN DRAWINGS				
DRAWING NAME: Mechanical Details Drawing				
QUANTITY 9 of 13	SHEET A	DWG. NO. SS01-MO01	SIZE 4 of 6	

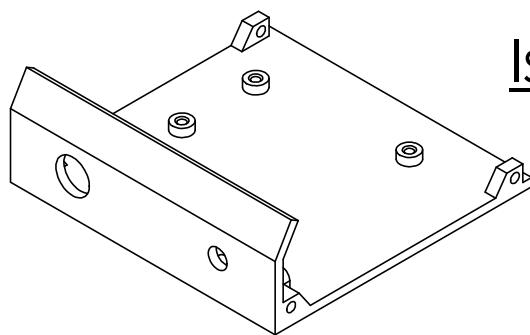
Front View



Right View



Isometric View

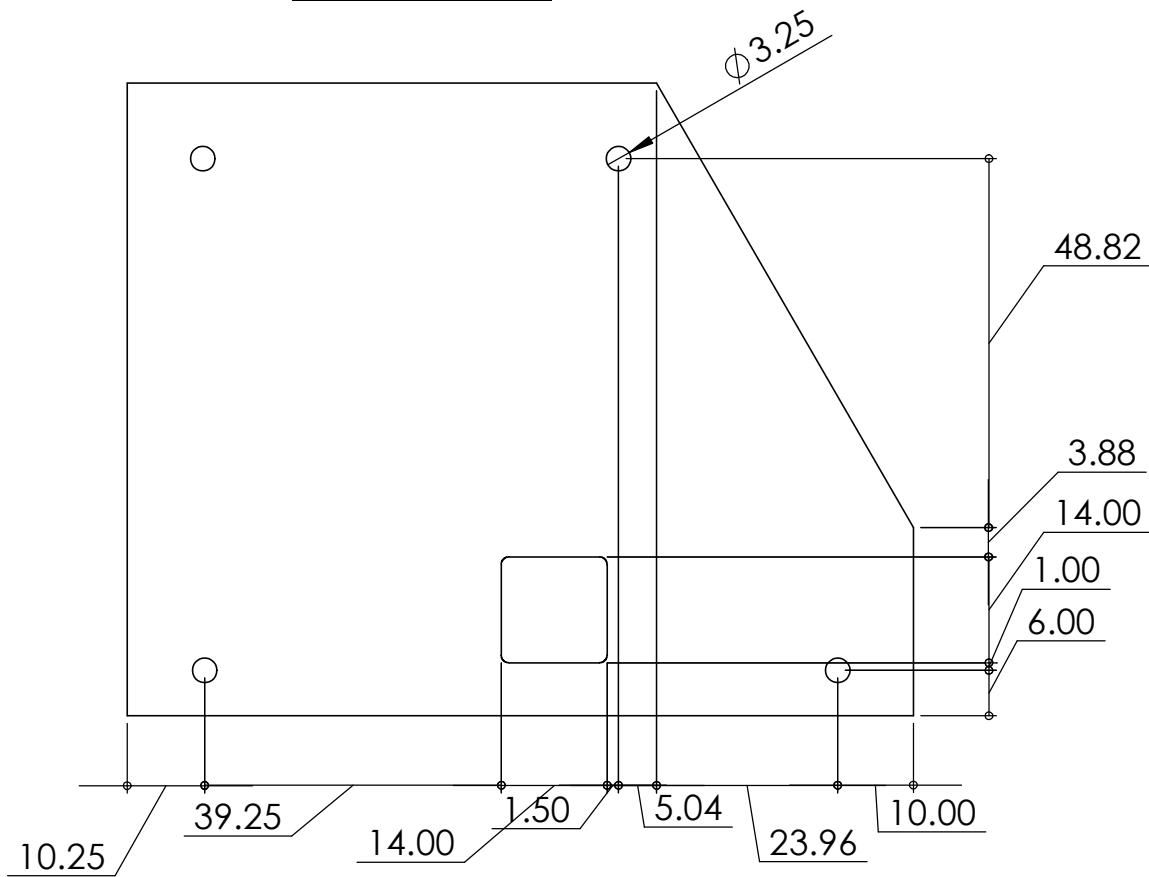


Units: MMGS

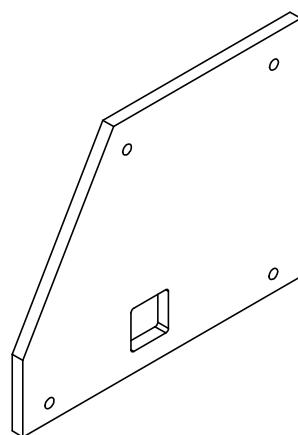
Scale: 1:1

DESIGNER	REV #	DATE
JS	2	4/5/2023
COMMENTS: MAIN ASSEMBLY BOTTOM SHELL		
DRAWING NAME: Mechanical Details Drawing		
QUANTITY	10 of 13	SIZE DWG. NO. A SS01-MO01
SHEET 4 of 6		

Left View



Front View



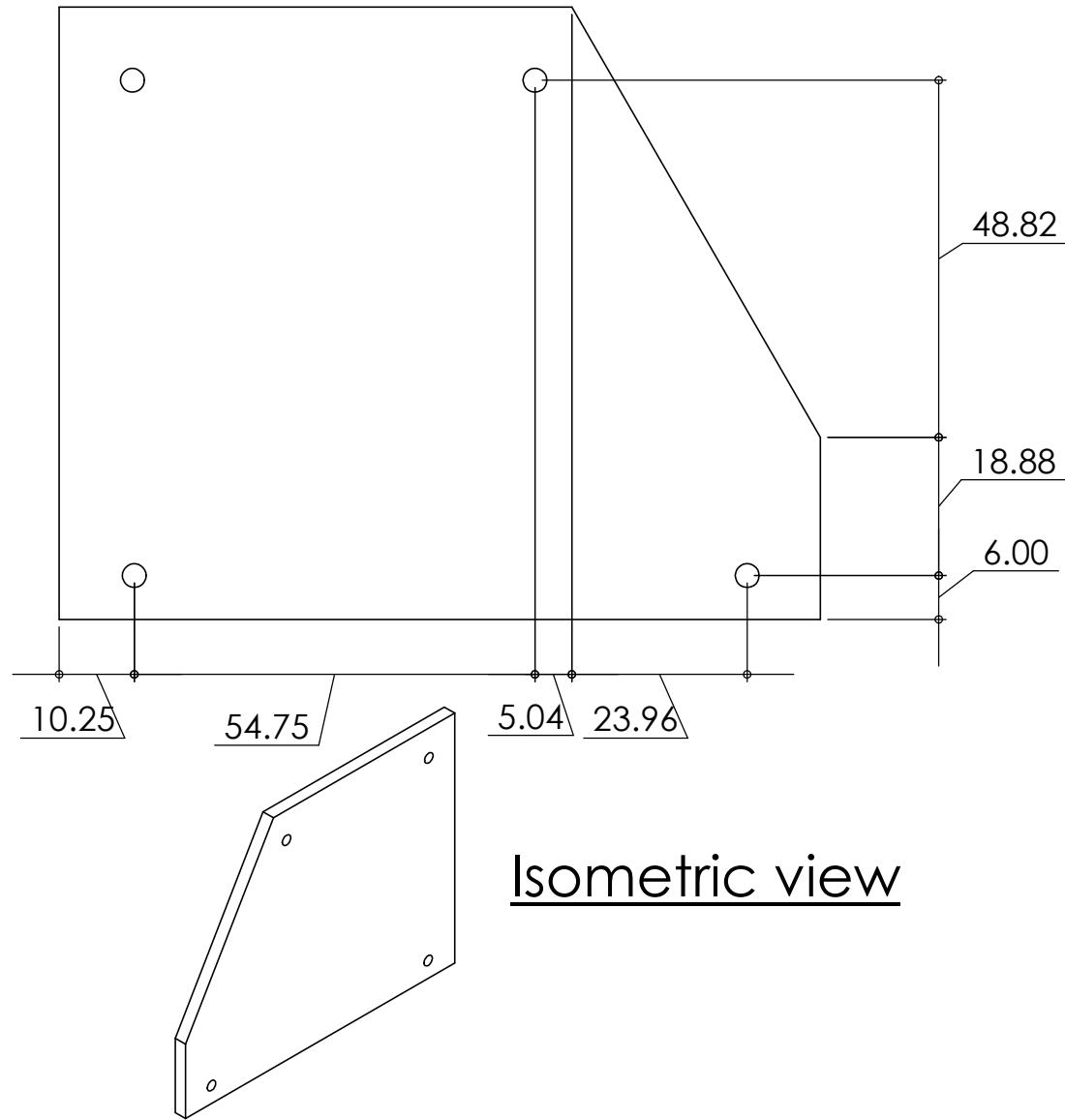
Isometric view

Units: MMGS

Scale: 1:1

DESIGNER JS	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: MAIN ASSEMBLY RIGHT PLATE		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 11 of 13		SHEET A	DWG. NO. SS01-MO01	4 of 6

Left View



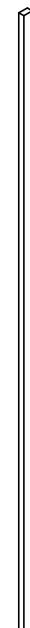
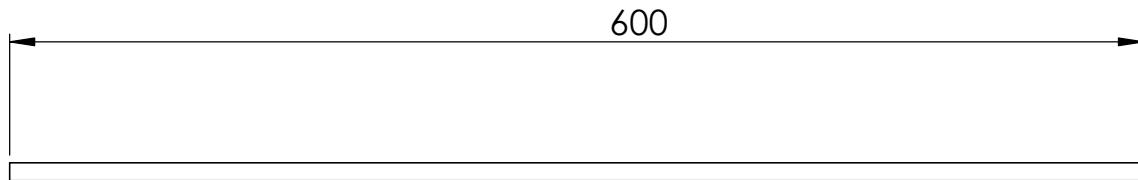
Front View

Units: MMGS

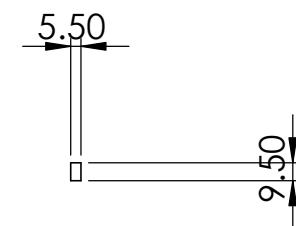
Scale: 1:1

DESIGNER JS	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: MAIN ASSEMBLY LEFT PLATE		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 12 of 13		SIZE A	DWG. NO. SS01-M001	SHEET 4 of 6

Front View



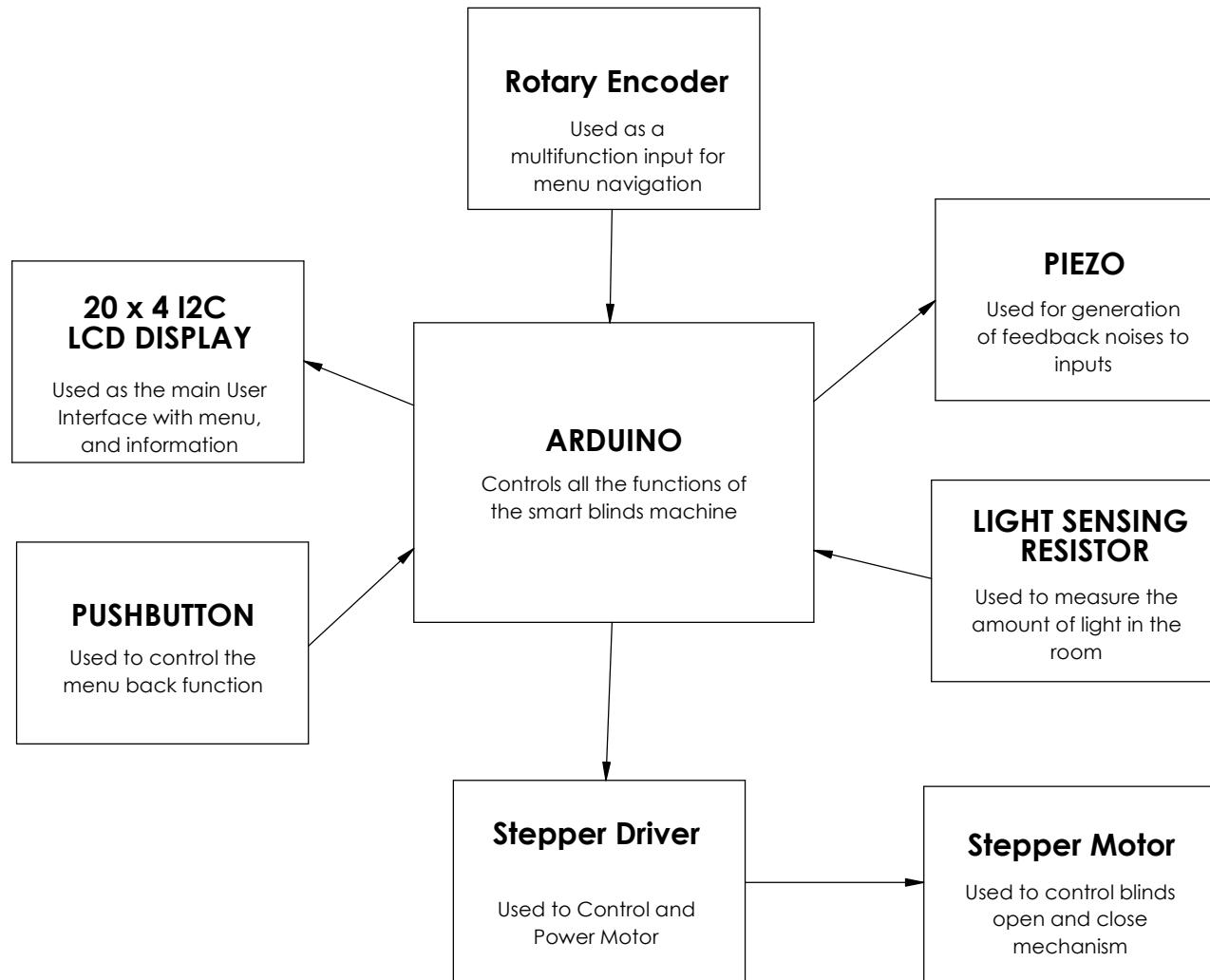
Top View



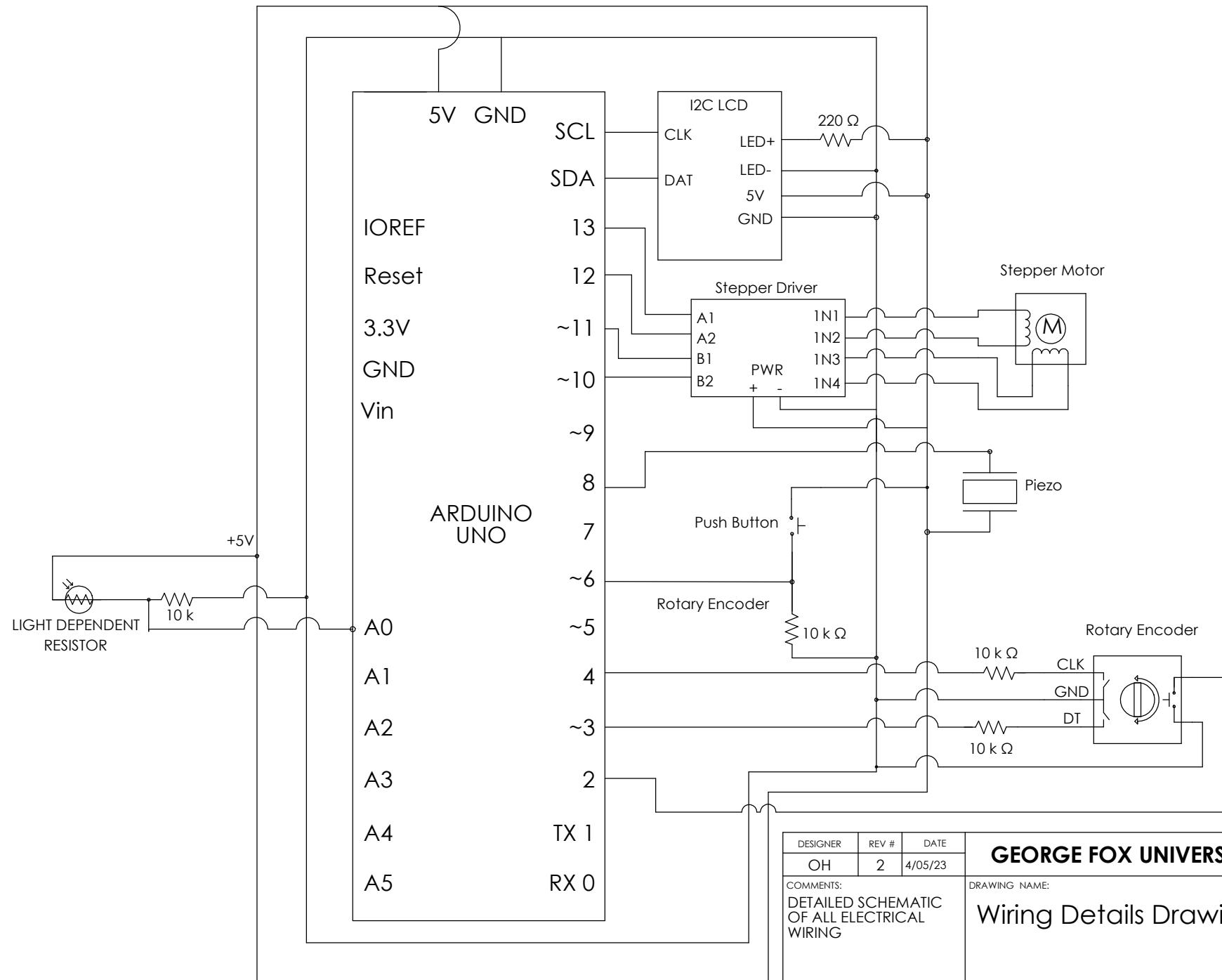
Units: MMGS

Scale: 1:6

DESIGNER JS	REV # 2	DATE 4/5/2023	GEORGE FOX UNIVERSITY	
COMMENTS: ROTATING ARM		DRAWING NAME: Mechanical Details Drawing		
QUANTITY 13 of 13		SIZE A	DWG. NO. SS01-M001	SHEET 4 of 6



DESIGNER OH	REV # 2	DATE 4/05/23	GEORGE FOX UNIVERSITY
COMMENTS: HIGH LEVEL DESCRIPTION OF ELECTRICAL SYSTEM			DRAWING NAME: Electrical Overview
QUANTITY		SIZE A	DWG. NO. US01-EO01



DESIGNER	REV #	DATE
OH	2	4/05/23

COMMENTS:
DETAILED SCHEMATIC
OF ALL ELECTRICAL
WIRING

GEORGE FOX UNIVERSITY

DRAWING NAME:
Wiring Details Drawing

QUANTITY

SIZE DWG. NO.
A US01-WD01

SHEET
6 of 6