

4

3

2

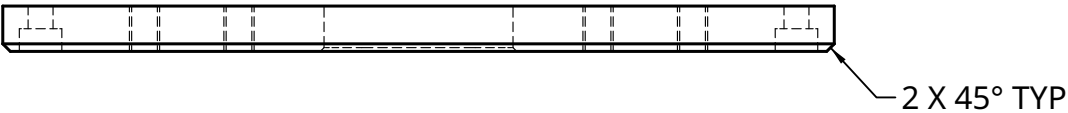
1

Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

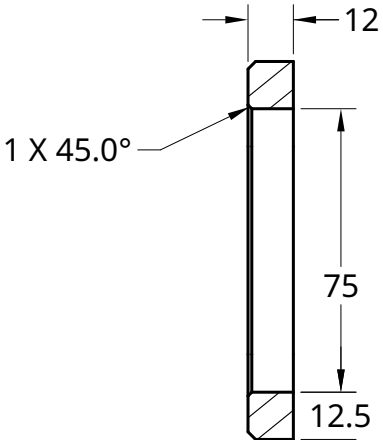
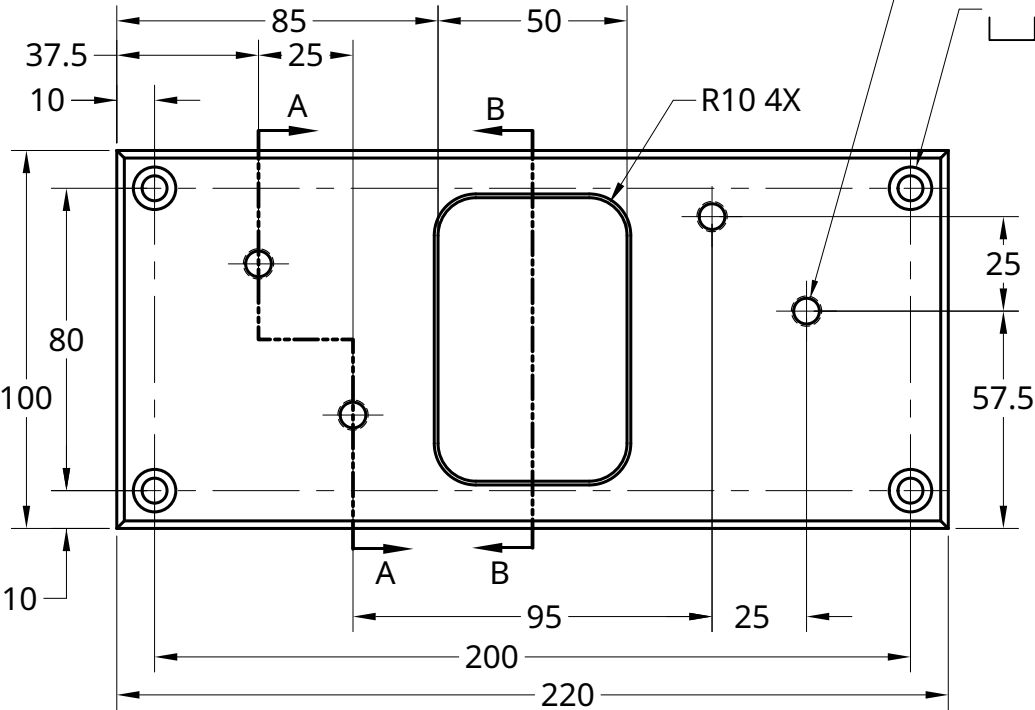


2 X 45° TYP

4X Ø6.8 THRU
M8x1.25 THRU

4X Ø6.6 THRU
Ø11.25 ⌞6


R10 4X



SECTION B - B

SECTION A - A

1 MOUNTING PLATE

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.0- .XXX = ±.00- .XXXX = ±.000- SURFACE FINISH ✓ DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION 		NAME		DATE		Ferris State University							
		DRAWN		BRIAN BRADY						07/25/2019			
		CHECKED											
		APPROVED											
						TITLE		M4 & M12 SENSOR MOUNTING MOUNTING PLATE					
						SIZE		DWG NO.		8675309-001		REV.	
		MATERIAL		VOLUME		SCALE		WEIGHT		SHEET		1 of 8	
		STEEL 1020		213693 mm³		1:2		1.682 kg					

4

3

2

1

Ferris State University

M4 & M12 SENSOR MOUNTING
MOUNTING PLATE

8675309-001

SCALE

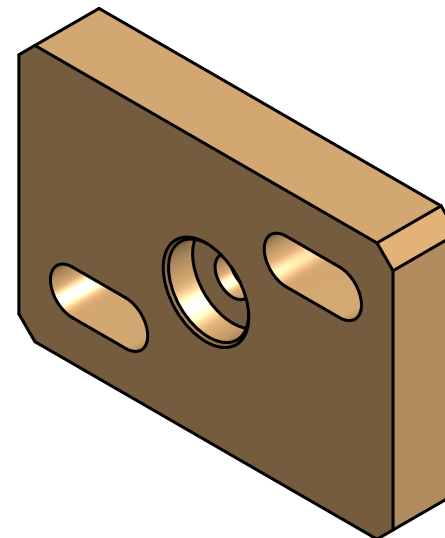
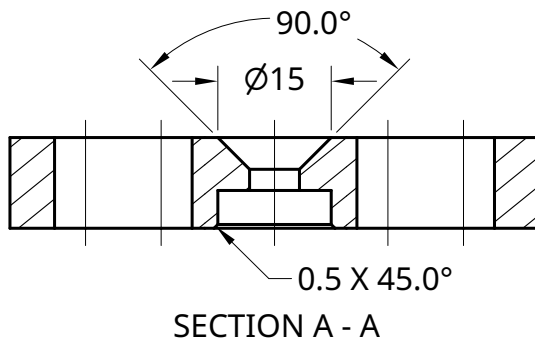
1:2

WEIGHT

1.682 kg

SHEET

1 of 8



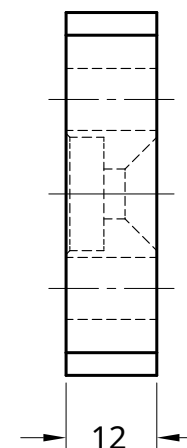
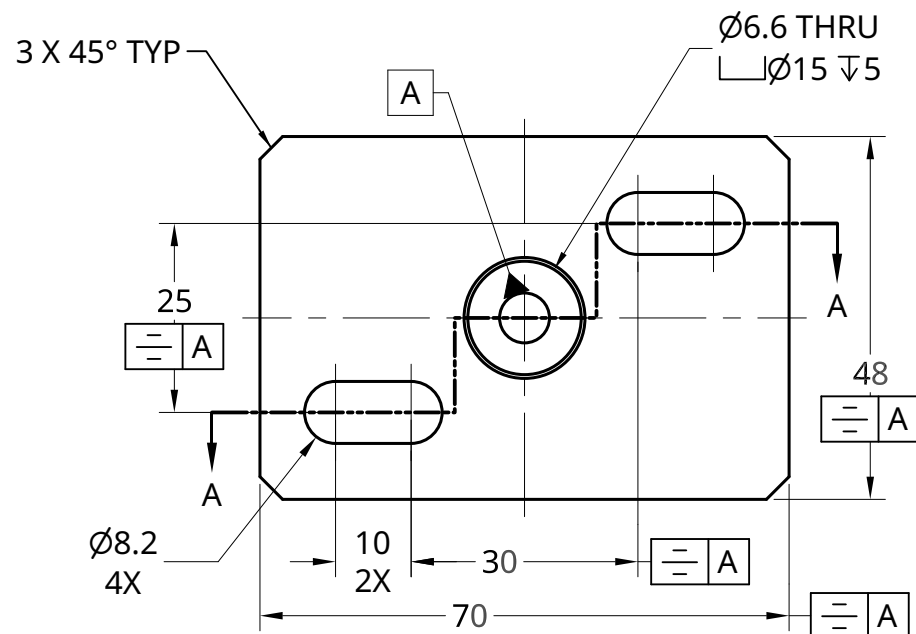
Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry



2 SENSOR BASE

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES

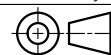
.XX = ±.0-
.XXX = ±.00-
.XXXX = ±.000-
ANGULAR = ±°
FRACTIONAL = ±

SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION



	NAME	DATE
DRAWN	BRIAN BRADY	07/25/2019
CHECKED		
APPROVED		
MATERIAL	VOLUME	
STEEL 1020	35479 mm ³	

Ferris State University

TITLE M4 & M12 SENSOR MOUNTING
SENSOR BASE

SIZE	DWG NO.	REV.
A	8675309-002	
SCALE 1:1	WEIGHT 0.279 kg	SHEET 2 of 8

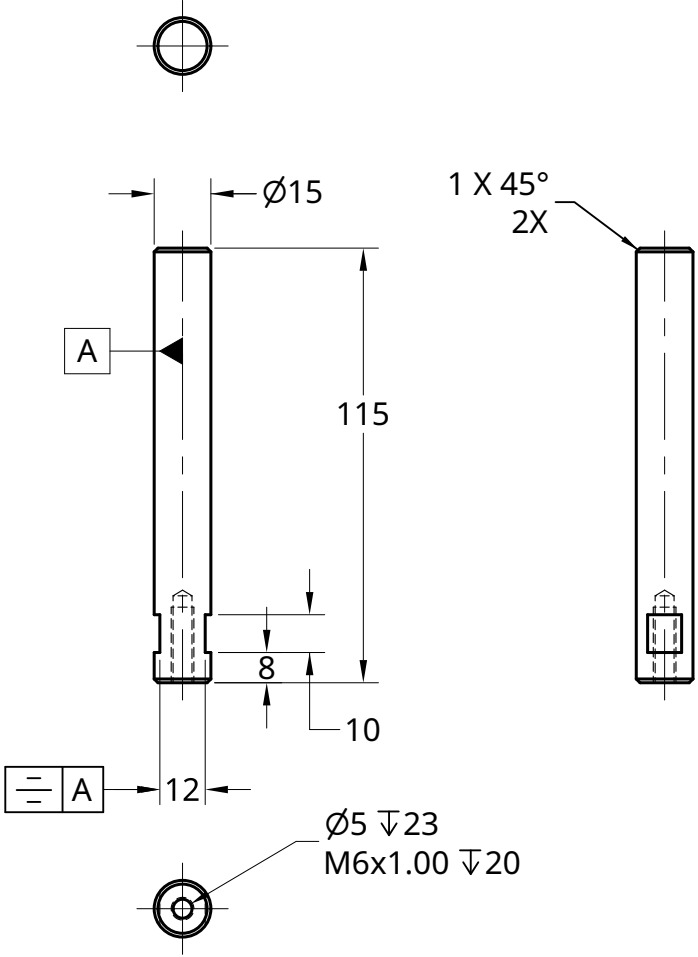
B

A

B

A

3 SENSOR POST




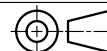
Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry

<div>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES</div> <div>.XX = ±.0- .XXX = ±.00- .XXXX = ±.000- ANGULAR = ±° FRACTIONAL = ±</div> <div>SURFACE FINISH </div> <div>DO NOT SCALE DRAWING</div> <div>BREAK ALL SHARP EDGES AND REMOVE BURRS</div> <div>THIRD ANGLE PROJECTION</div> <div></div>		NAME		DATE		<div>Ferris State University</div> <div>TITLE M4 & M12 SENSOR MOUNTING SENSOR POST</div> <div>SIZE A DWG NO. 8675309-003 REV.</div> <div>SCALE 1:2 WEIGHT 0.154 kg SHEET 3 of 8</div>				
		DRAWN BRIAN BRADY		07/25/2019						
		CHECKED								
		APPROVED								
MATERIAL STEEL 8620		VOLUME 19632 mm³								

2

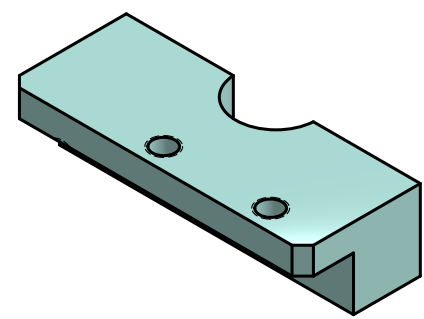
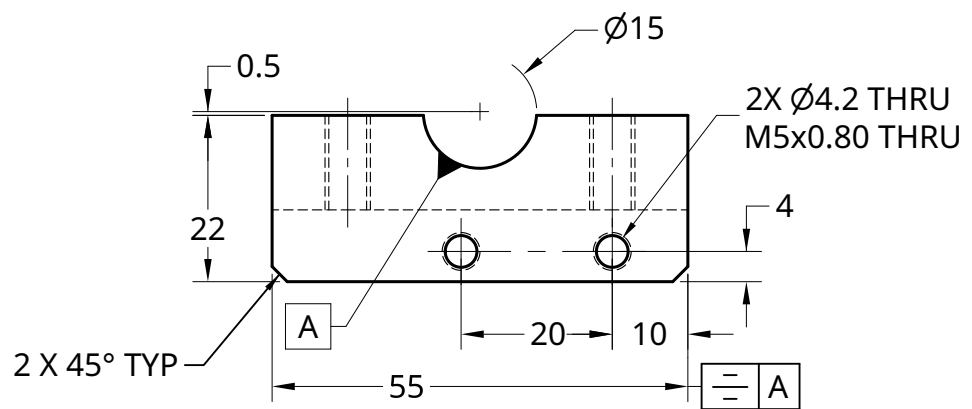
1

B

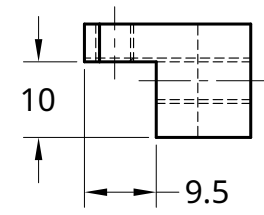
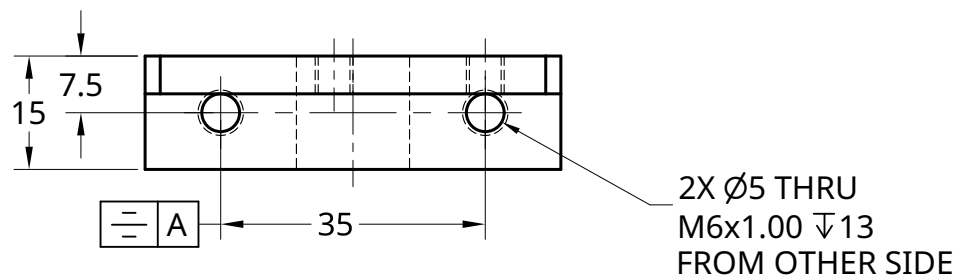
A

B


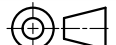
A



Modeling Notes
Match dimensional design intent while modeling
Orient part model to match the orthographic views
Use hole tool for all holes
Take note of the symmetry



4 SENSOR CLAMP 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.0- .XXX = ±.00- .XXXX = ±.000- ANGULAR = ±° FRACTIONAL = ± SURFACE FINISH  DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION 	NAME		DATE	Ferris State University				
	DRAWN		BRIAN BRADY					07/25/2019
	CHECKED				TITLE M4 & M12 SENSOR MOUNTING SENSOR CLAMP 1			
	APPROVED							
				SIZE A				
				DWG NO. 8675309-004				
				REV.				
				SCALE 1:1				
				WEIGHT 0.087 kg				
				SHEET 4 of 8				

2

1

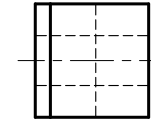
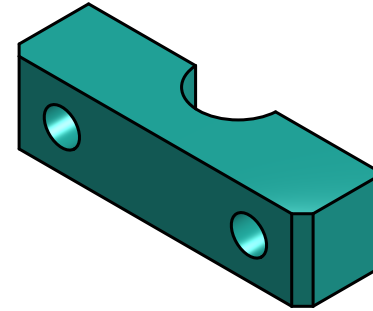
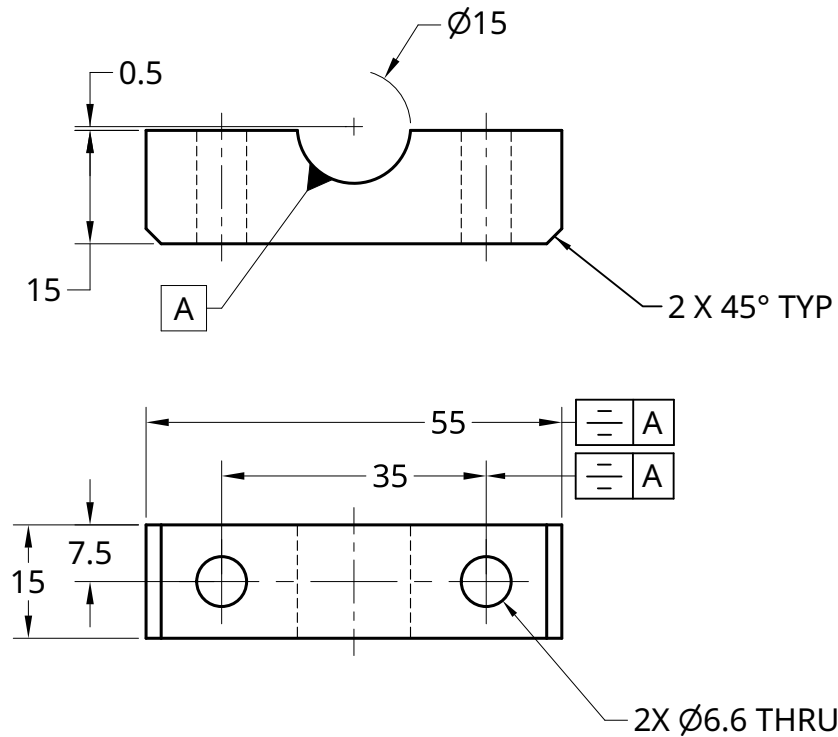
Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry



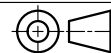
5 SENSOR CLAMP 2

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.0-
.XXX = ±.00-
.XXXX = ±.000-
ANGULAR = ±°
FRACTIONAL = ±
SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION



	NAME	DATE
DRAWN	BRIAN BRADY	07/25/2019
CHECKED		
APPROVED		

MATERIAL

STEEL 1020

VOLUME

10076 mm³

Ferris State University

TITLE M4 & M12 SENSOR MOUNTING
SENSOR CLAMP 2

SIZE
A

DWG NO.

8675309-005

REV.

SCALE 1:1

WEIGHT

0.079 kg

SHEET

5 of 8

2

1

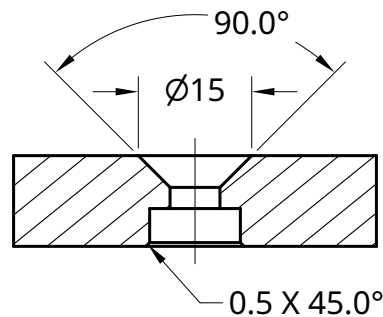
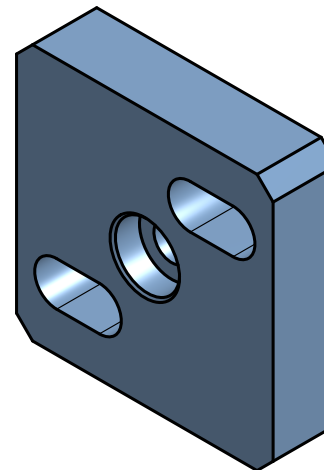
Modeling Notes

Match dimensional design intent while modeling

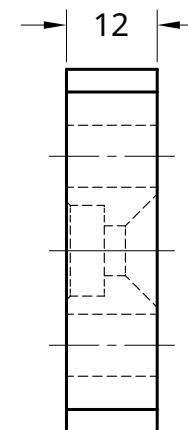
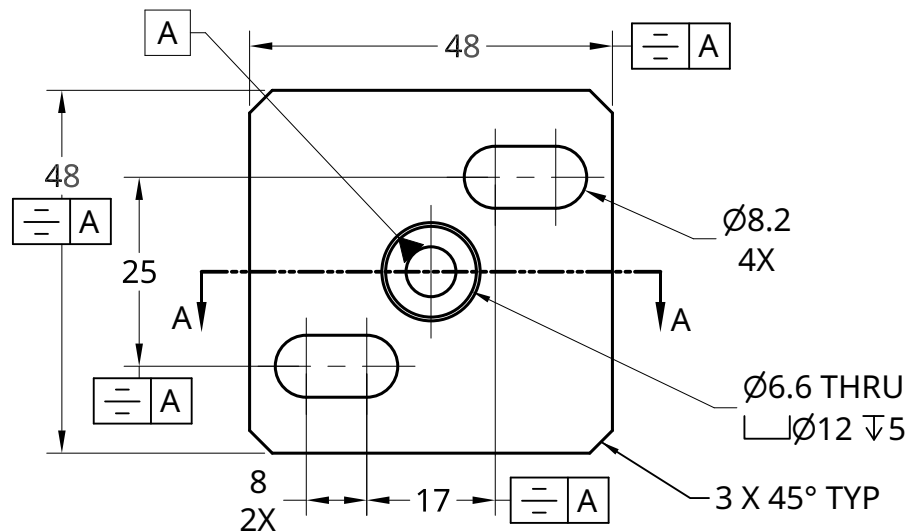
Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry



SECTION A - A



6 REFLECTOR BASE

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES

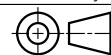
.XX = ±.0-
.XXX = ±.00-
.XXXX = ±.000-
ANGULAR = ±°
FRACTIONAL = ±

SURFACE FINISH ✓

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION



	NAME	DATE
DRAWN	BRIAN BRADY	07/25/2019
CHECKED		
APPROVED		
MATERIAL	VOLUME	
STEEL 1020	23520 mm ³	

Ferris State University

TITLE M4 & M12 SENSOR MOUNTING
REFLECTOR BASE

SIZE	DWG NO.	REV.
A	8675309-006	
SCALE 1:1	WEIGHT 0.185 kg	SHEET 6 of 8

2

1

2

1

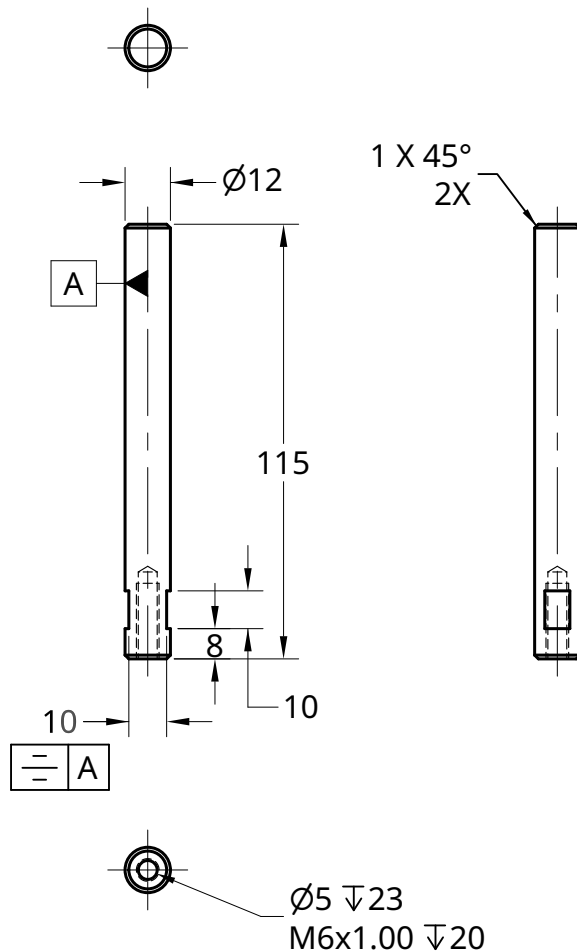
Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry



7 REFLECTOR POST

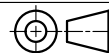
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.0-
.XXX = ±.00-
.XXXX = ±.000-
ANGULAR = ± °
FRACTIONAL = ±

SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION



NAME

DATE

DRAWN

BRIAN BRADY

07/25/2019

CHECKED

APPROVED

Ferris State University

TITLE M4 & M12 SENSOR MOUNTING
REFLECTOR POST

SIZE
A

DWG NO.

8675309-007

REV.

SCALE 1:2

WEIGHT

0.097 kg

SHEET

7 of 8

MATERIAL

STEEL 8620

VOLUME

12419 mm³

2

1

B

A

2

1

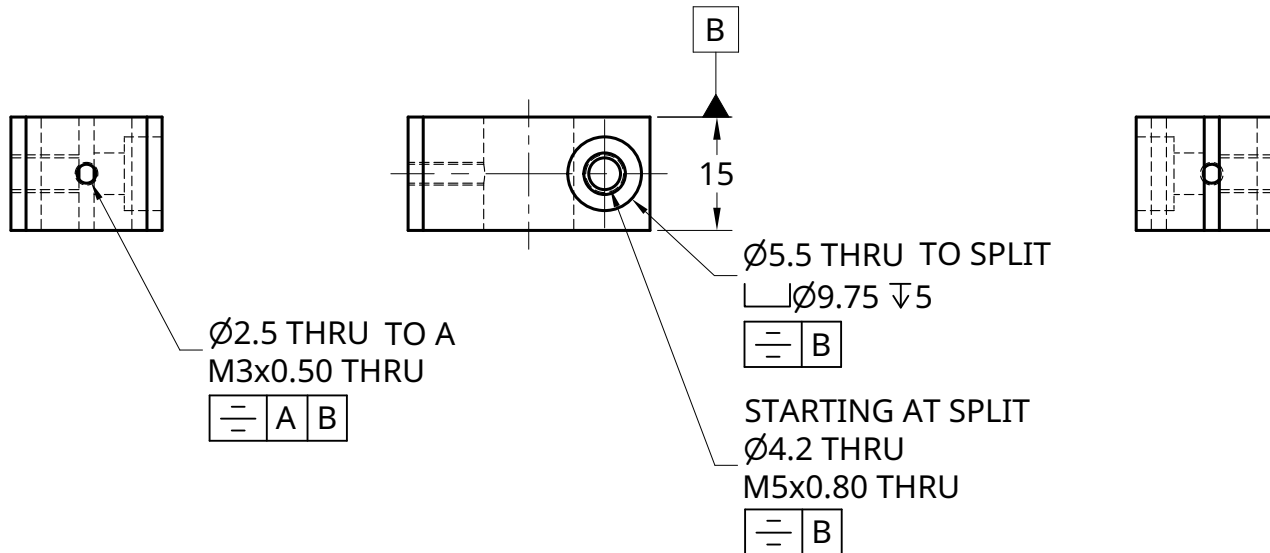
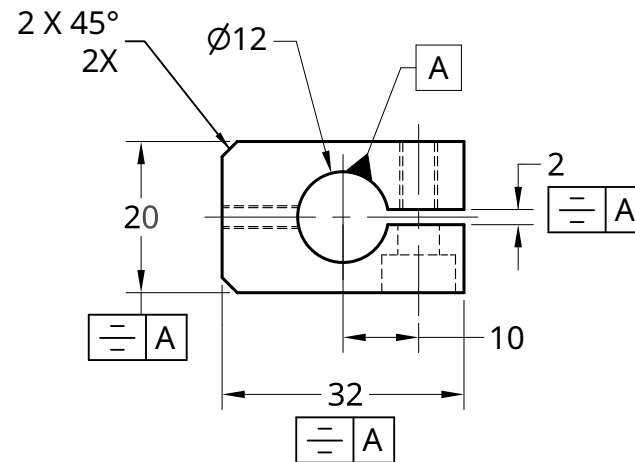
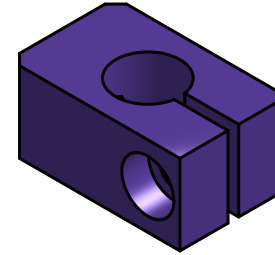
Modeling Notes

Match dimensional design intent while modeling

Orient part model to match the orthographic views

Use hole tool for all holes

Take note of the symmetry



8 REFLECTOR CLAMP

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES

.XX = ±.0-
.XXX = ±.00-
.XXXX = ±.000-

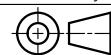
ANGULAR = ± °
FRACTIONAL = ±

SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION



NAME	DATE
BRIAN BRADY	07/25/2019
DRAWN	
CHECKED	
APPROVED	
MATERIAL	VOLUME
STEEL 1020	6900 mm ³

Ferris State University

TITLE M4 & M12 SENSOR MOUNTING
REFLECTOR CLAMP

SIZE	DWG NO.	REV.
A	8675309-008	
SCALE	1:1	WEIGHT
		0.054 kg
		SHEET
		8 of 8

2

1