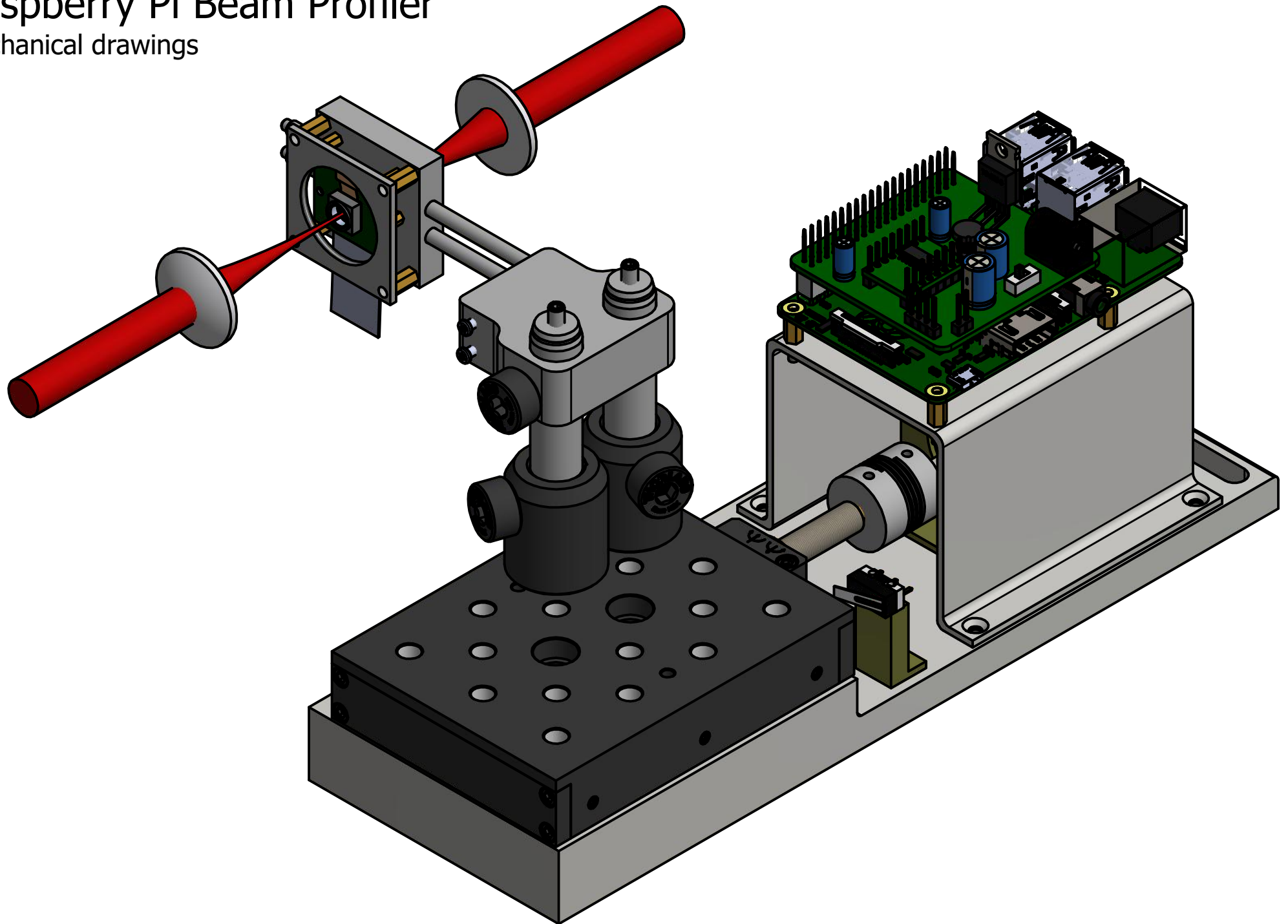
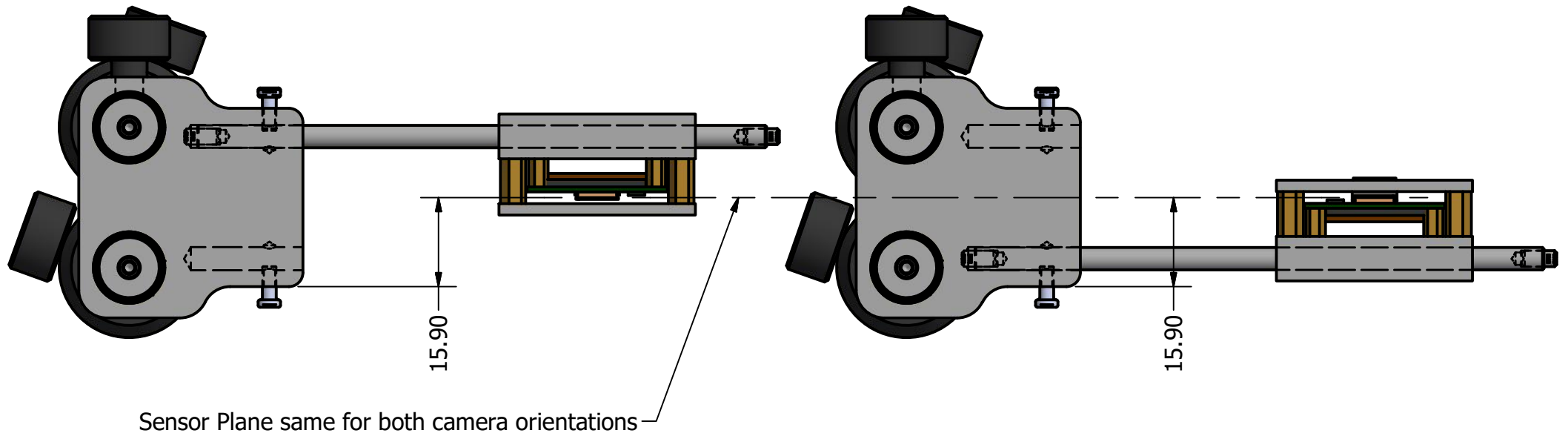


# Raspberry Pi Beam Profiler

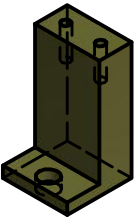
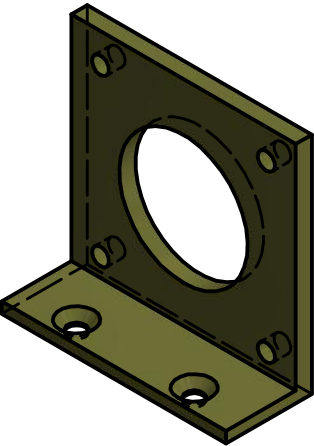
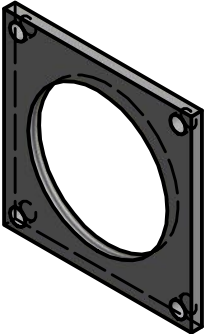
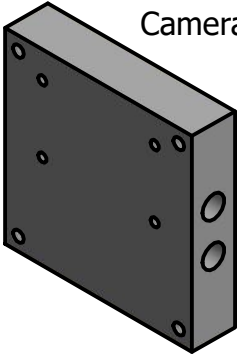
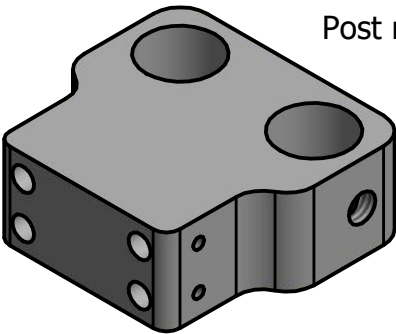
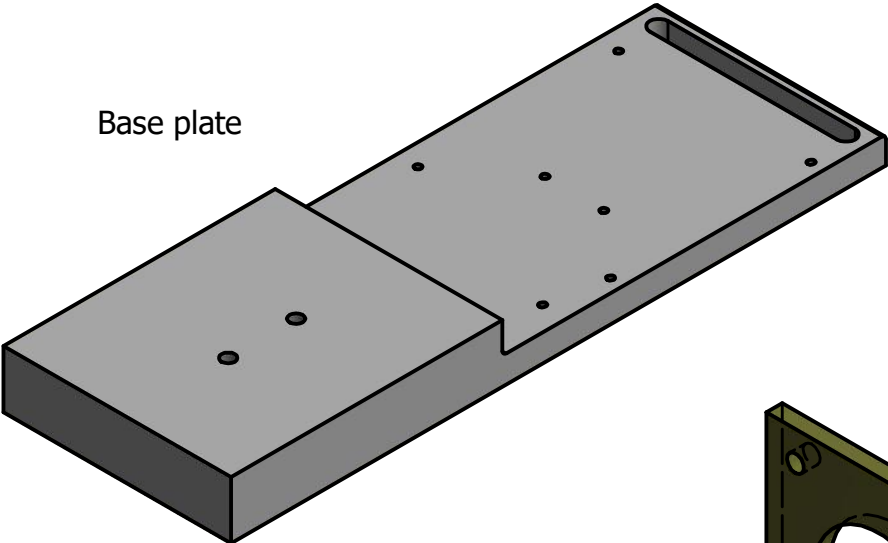
Mechanical drawings



# Reversible sensor orientation



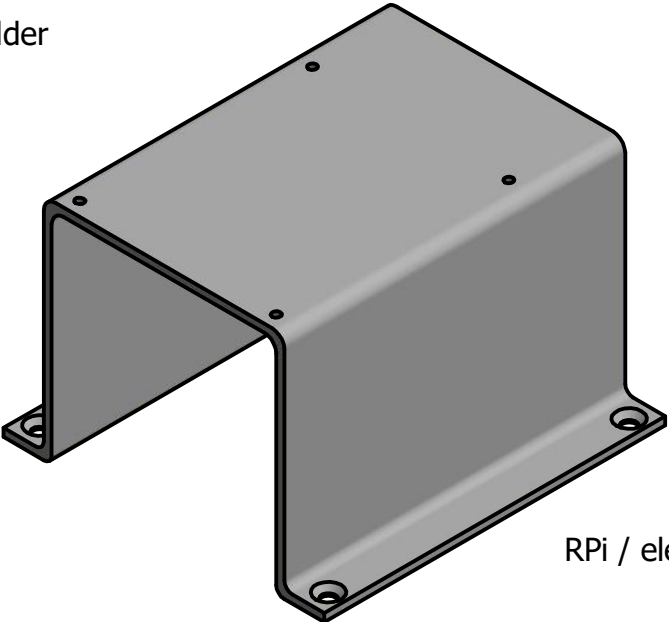
# Individual Components



Micro-switch holder



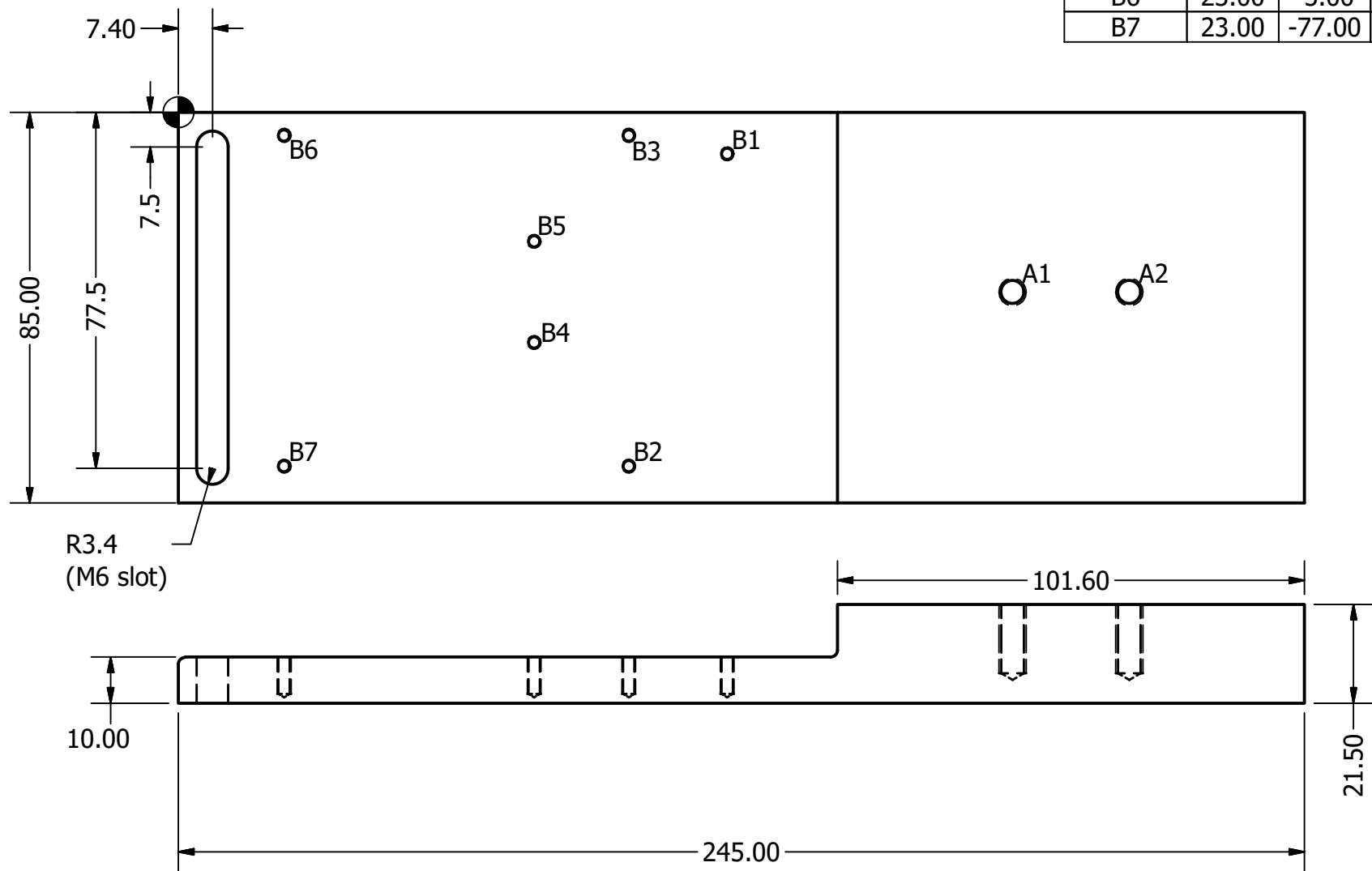
Screw and screw housing



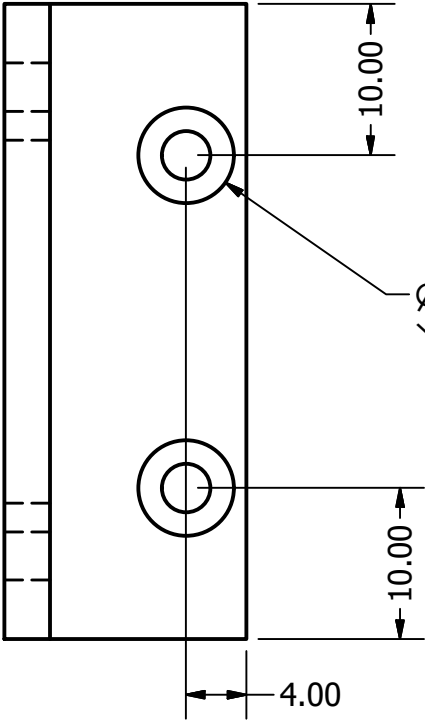
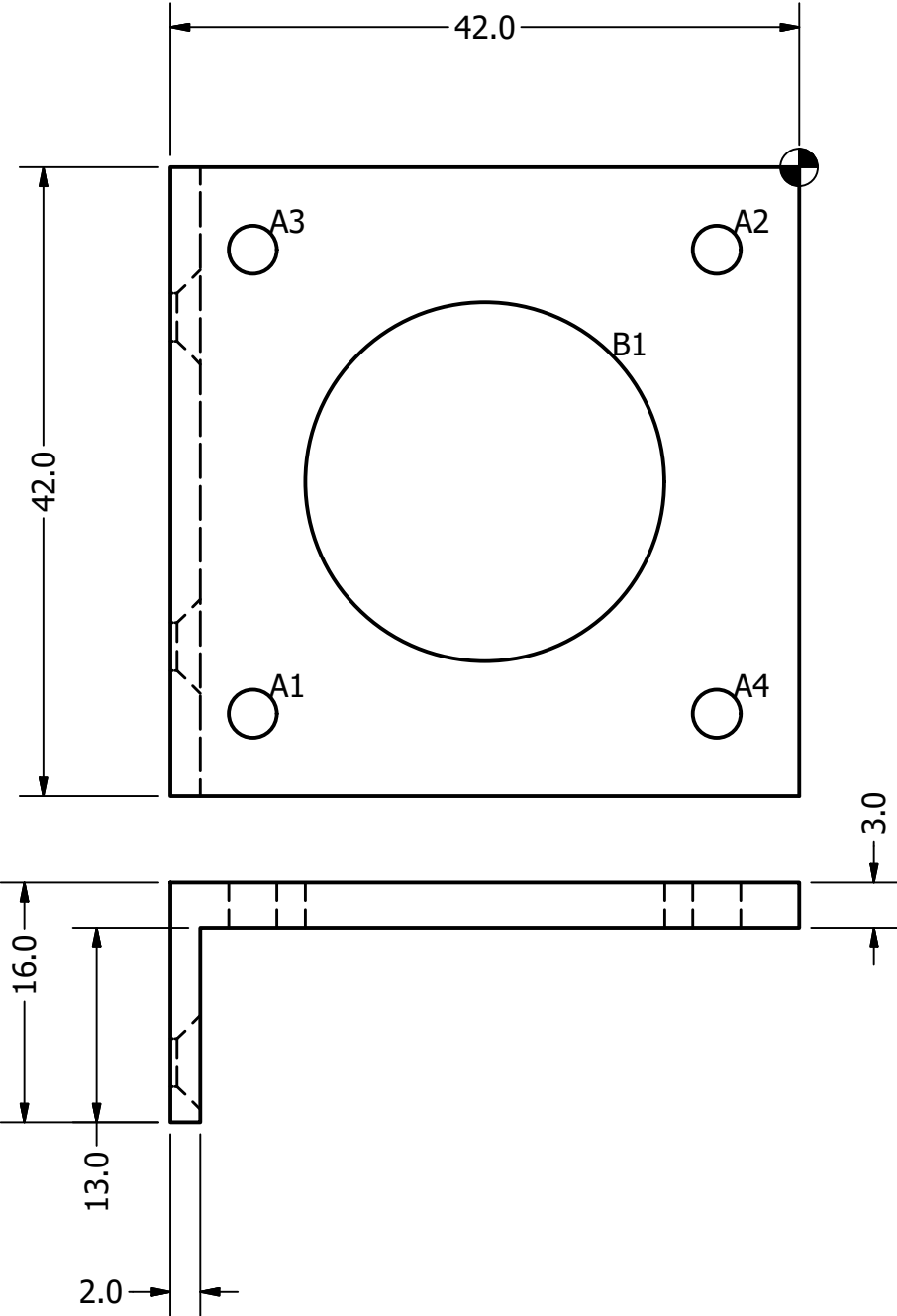
Rpi / electronics mount

Base plate  
Aluminium, Anodised

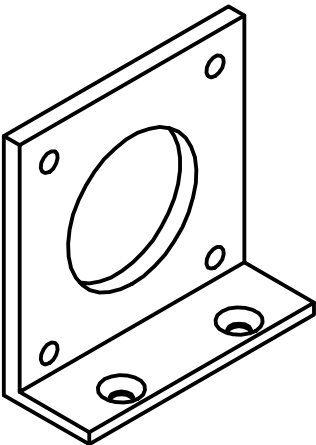
HOLE TABLE			
HOLE	XDIM	YDIM	DESCRIPTION
A1	181.50	-39.10	M6x1 - 6H
A2	206.90	-39.10	M6x1 - 6H
B1	119.40	-9.00	M3x0.5 - 6H
B2	98.00	-77.00	M3x0.5 - 6H
B3	98.00	-5.00	M3x0.5 - 6H
B4	77.40	-50.10	M3x0.5 - 6H
B5	77.40	-28.10	M3x0.5 - 6H
B6	23.00	-5.00	M3x0.5 - 6H
B7	23.00	-77.00	M3x0.5 - 6H



Motor to base mount  
Aluminium



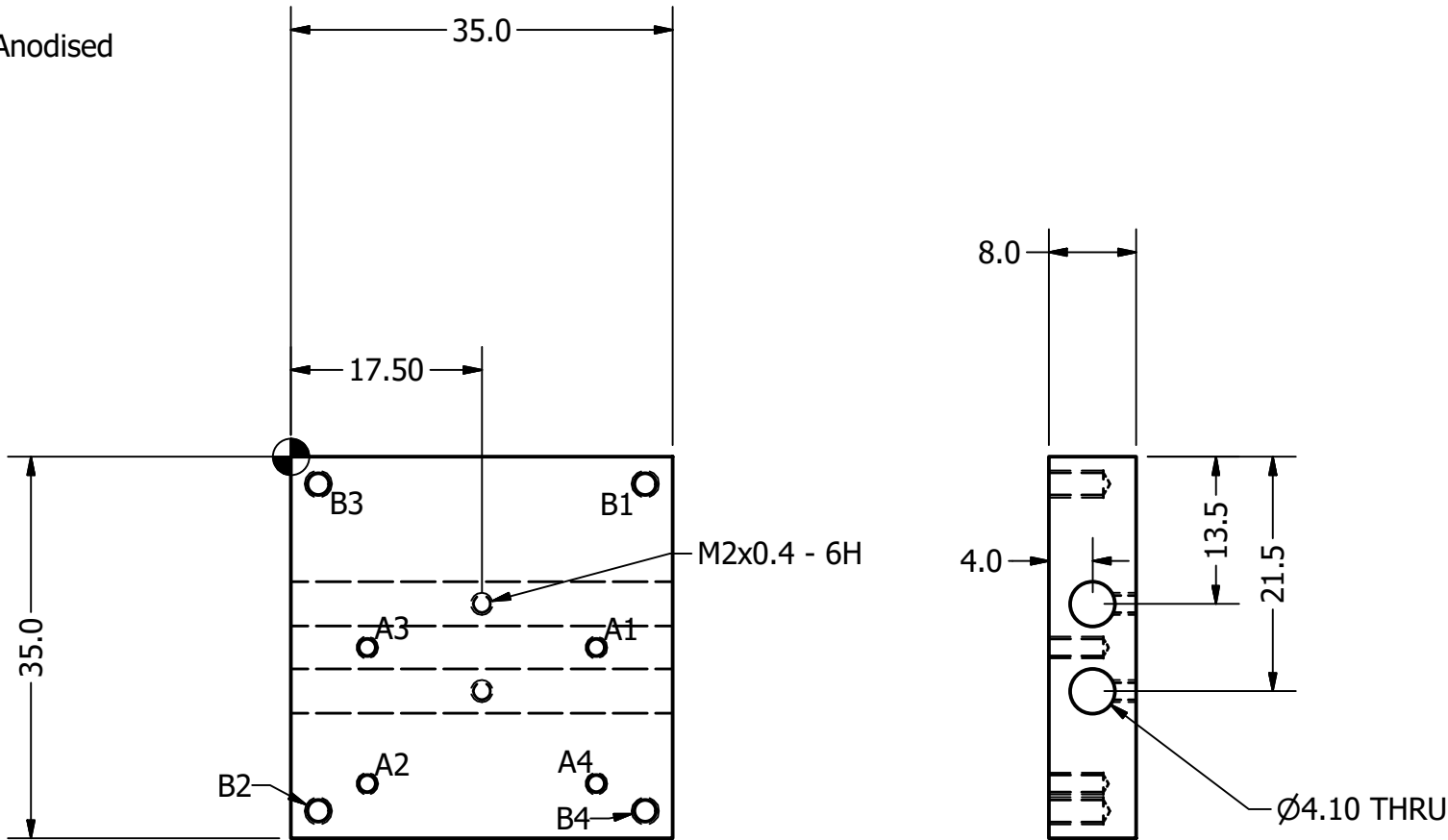
Ø3.20 THRU  
✓ Ø6.30 X 90.0°



HOLE TABLE			
HOLE	XDIM	YDIM	DESCRIPTION
A1	-36.50	-36.50	Ø3.20 THRU
A2	-5.50	-5.50	Ø3.20 THRU
A3	-36.50	-5.50	Ø3.20 THRU
A4	-5.50	-36.50	Ø3.20 THRU
B1	-21.00	-21.00	Ø24.00 THRU

Camera mount

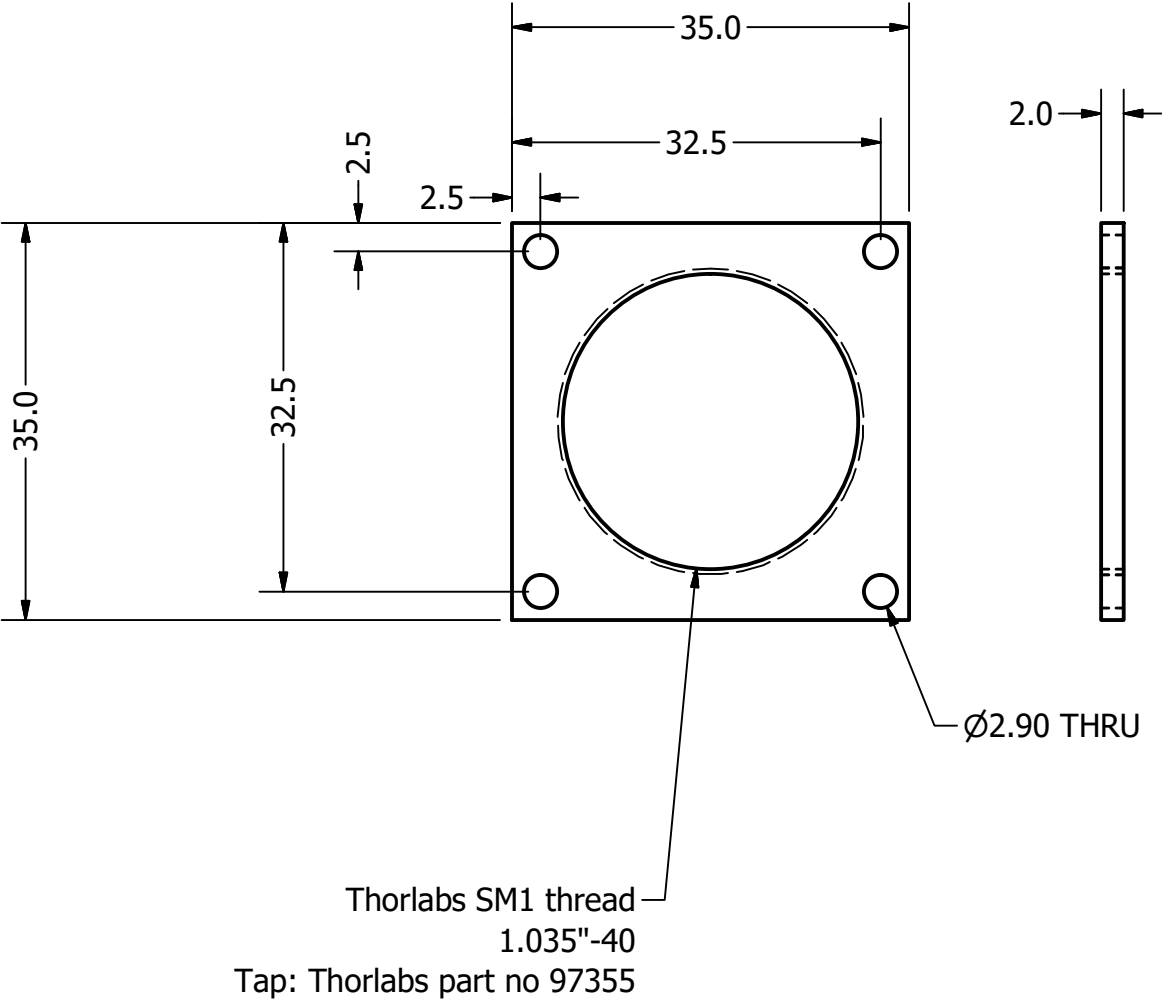
Aluminium, Anodised



HOLE TABLE				
HOLE	XDIM	YDIM	DESCRIPTION	HOLE DEPTH
A1	28.00	-17.50	M2x0.4 - 6H	5.00
A2	7.00	-30.00	M2x0.4 - 6H	5.00
A3	7.00	-17.50	M2x0.4 - 6H	5.00
A4	28.00	-30.00	M2x0.4 - 6H	5.00
B1	32.50	-2.50	M2.5x0.45 - 6H	5.00
B2	2.50	-32.50	M2.5x0.45 - 6H	5.00
B3	2.50	-2.50	M2.5x0.45 - 6H	5.00
B4	32.50	-32.50	M2.5x0.45 - 6H	5.00

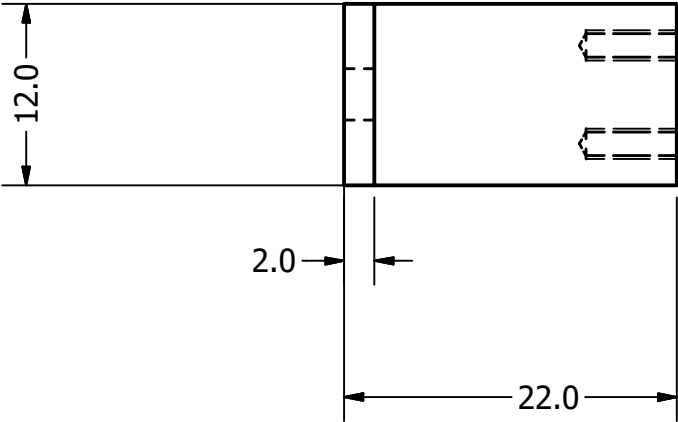
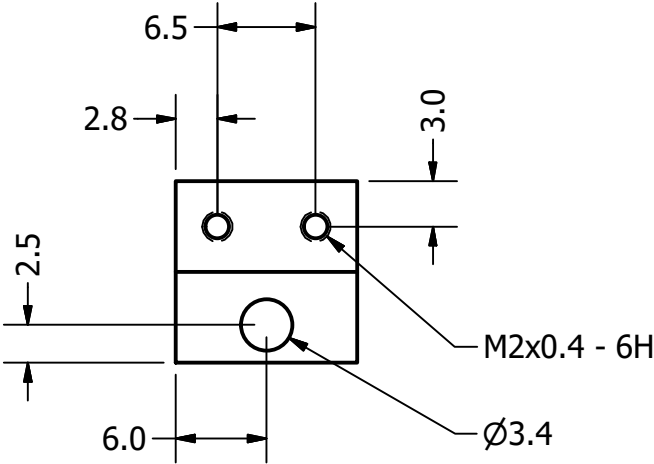
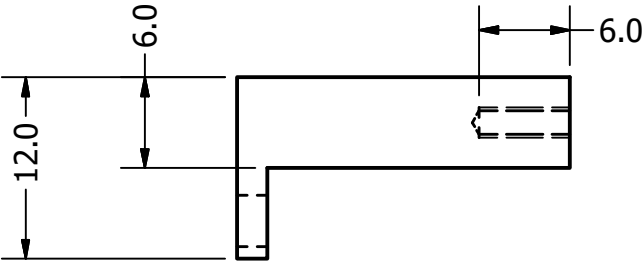
Camera filter mount - SM1 adapter

Material - Aluminium, Anodised



Micro-switch holder

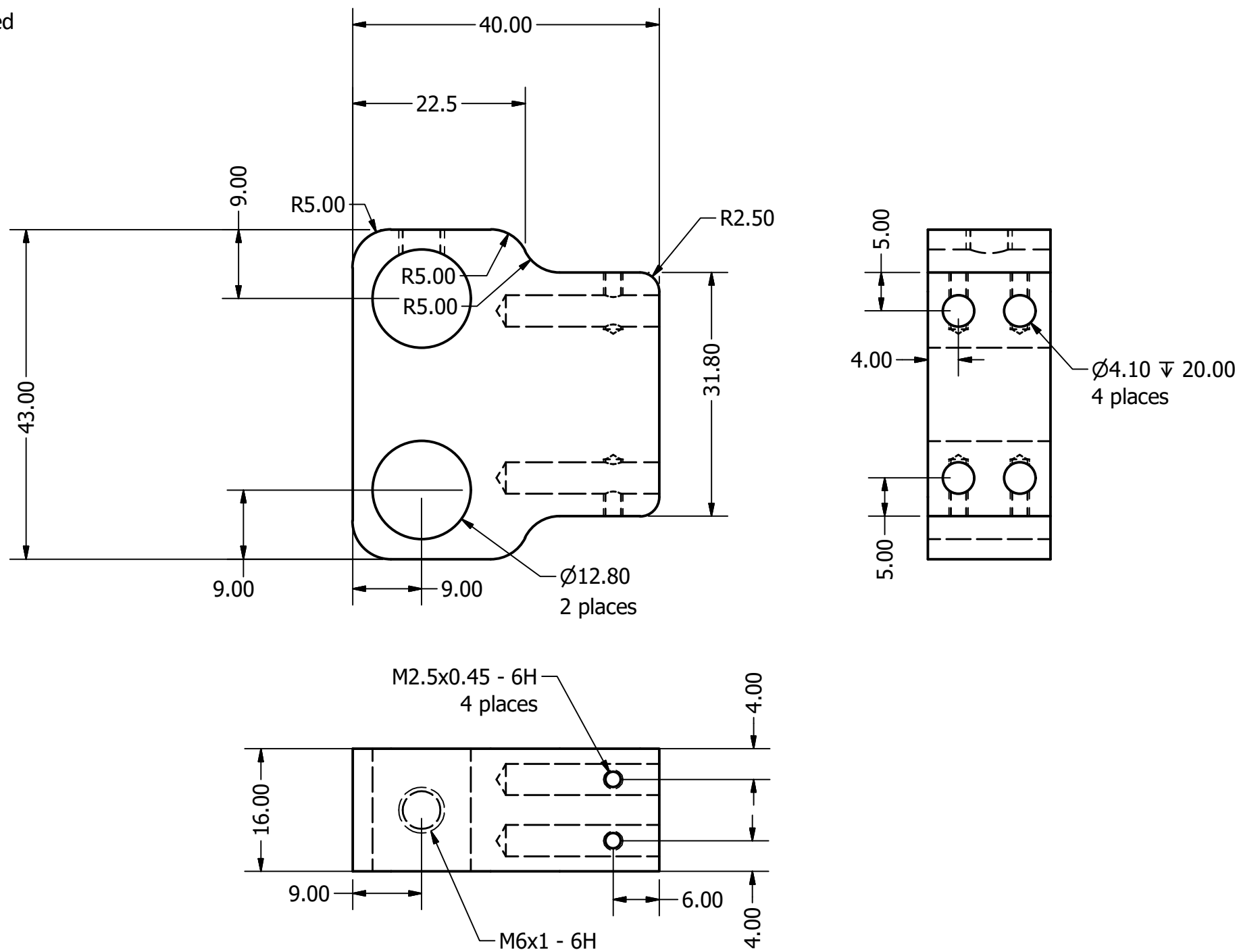
Material: Any metal





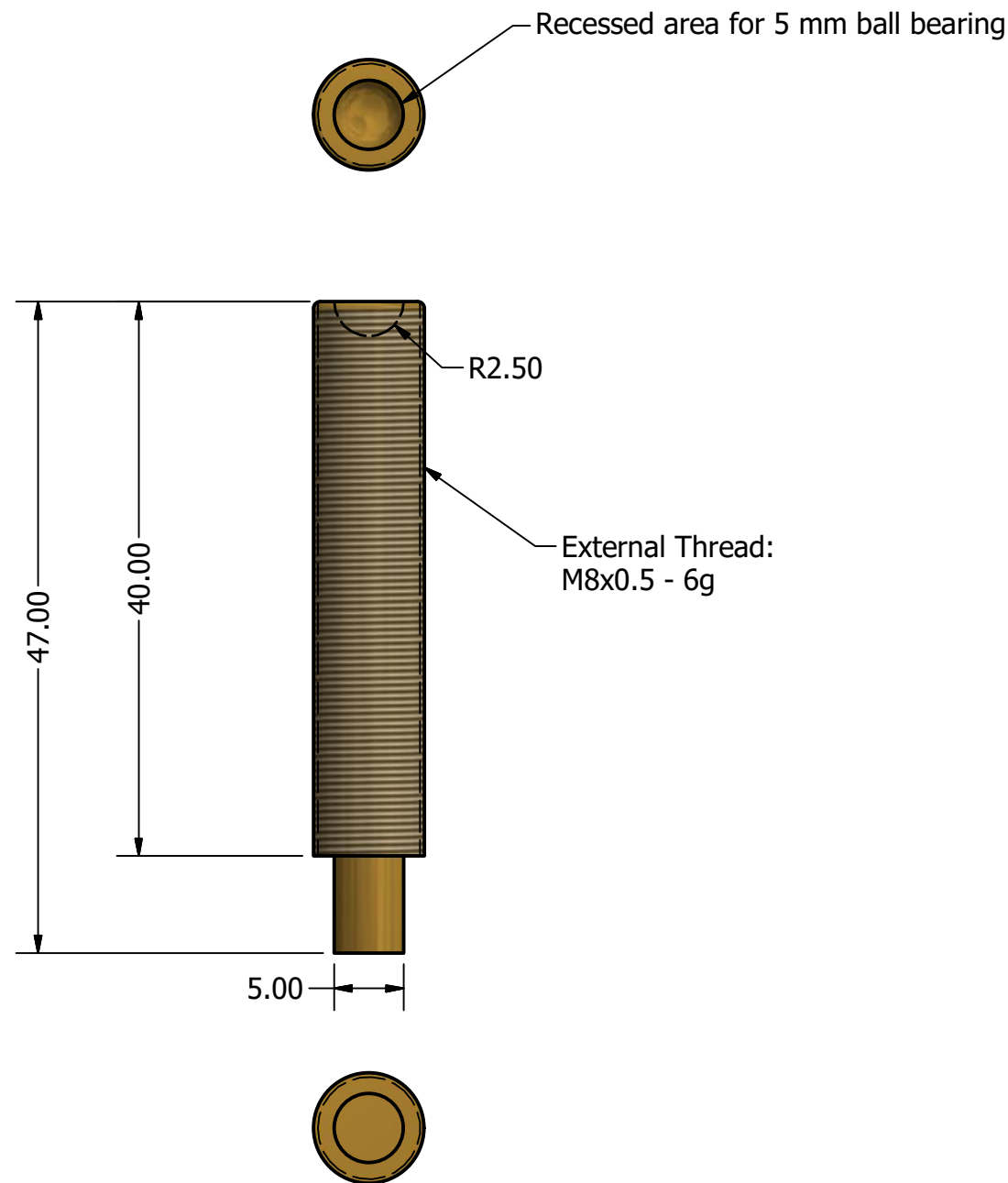
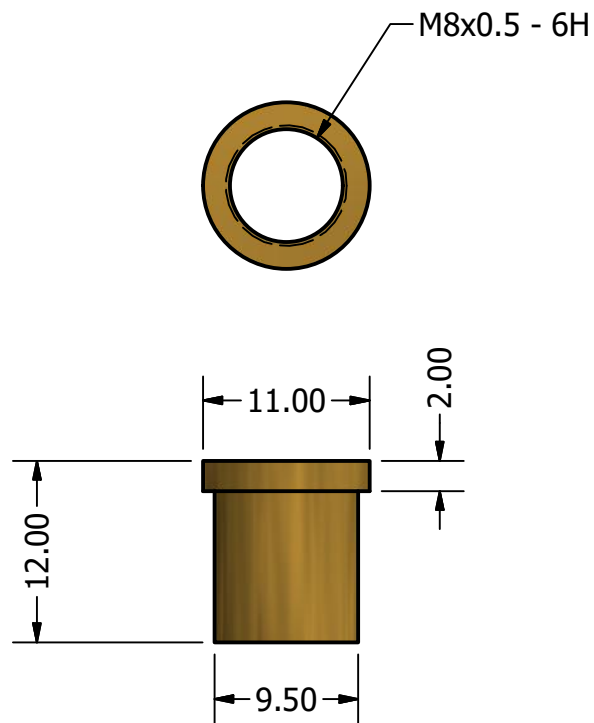
Post-mounting piece

Aluminium, Anodised



Screw and screw housing

Material Brass



Electronics board mount

Any material (amenable to 3D-printing, STL file provided)

HOLE TABLE			
HOLE	XDIM	YDIM	DESCRIPTION
A1	64.50	-23.50	M2.5x0.45 - 6H
A2	15.50	-81.50	M2.5x0.45 - 6H
A3	15.50	-23.50	M2.5x0.45 - 6H
A4	64.50	-81.50	M2.5x0.45 - 6H
B1	76.00	-5.00	Ø3.40 THRU ✓ Ø6.30 X 90.0°
B2	76.00	-80.00	Ø3.40 THRU ✓ Ø6.30 X 90.0°
B3	4.00	-5.00	Ø3.40 THRU ✓ Ø6.30 X 90.0°
B4	4.00	-80.00	Ø3.40 THRU ✓ Ø6.30 X 90.0°

