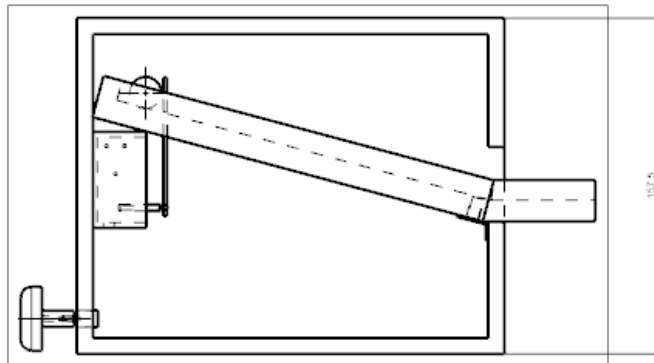
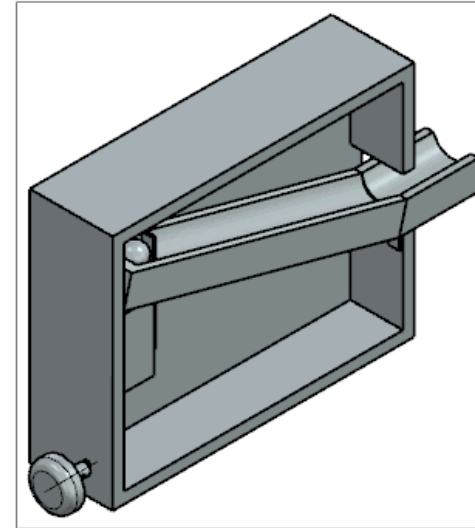
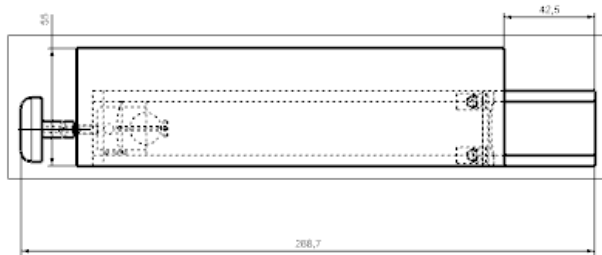


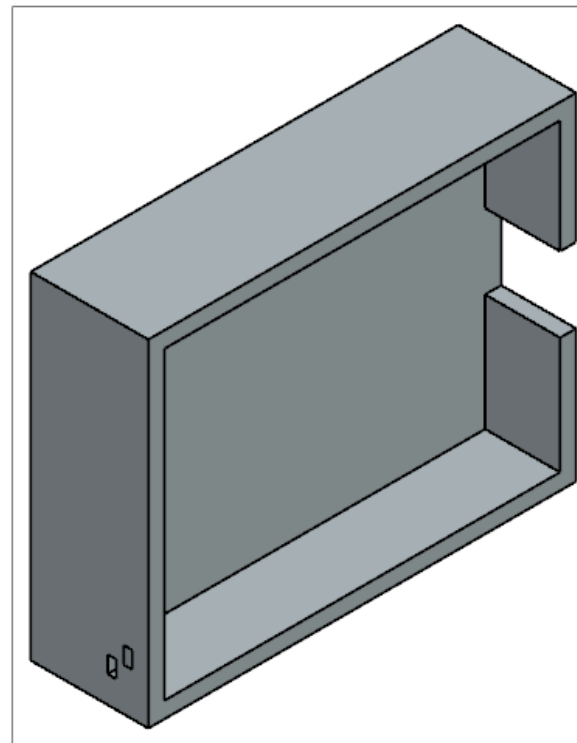
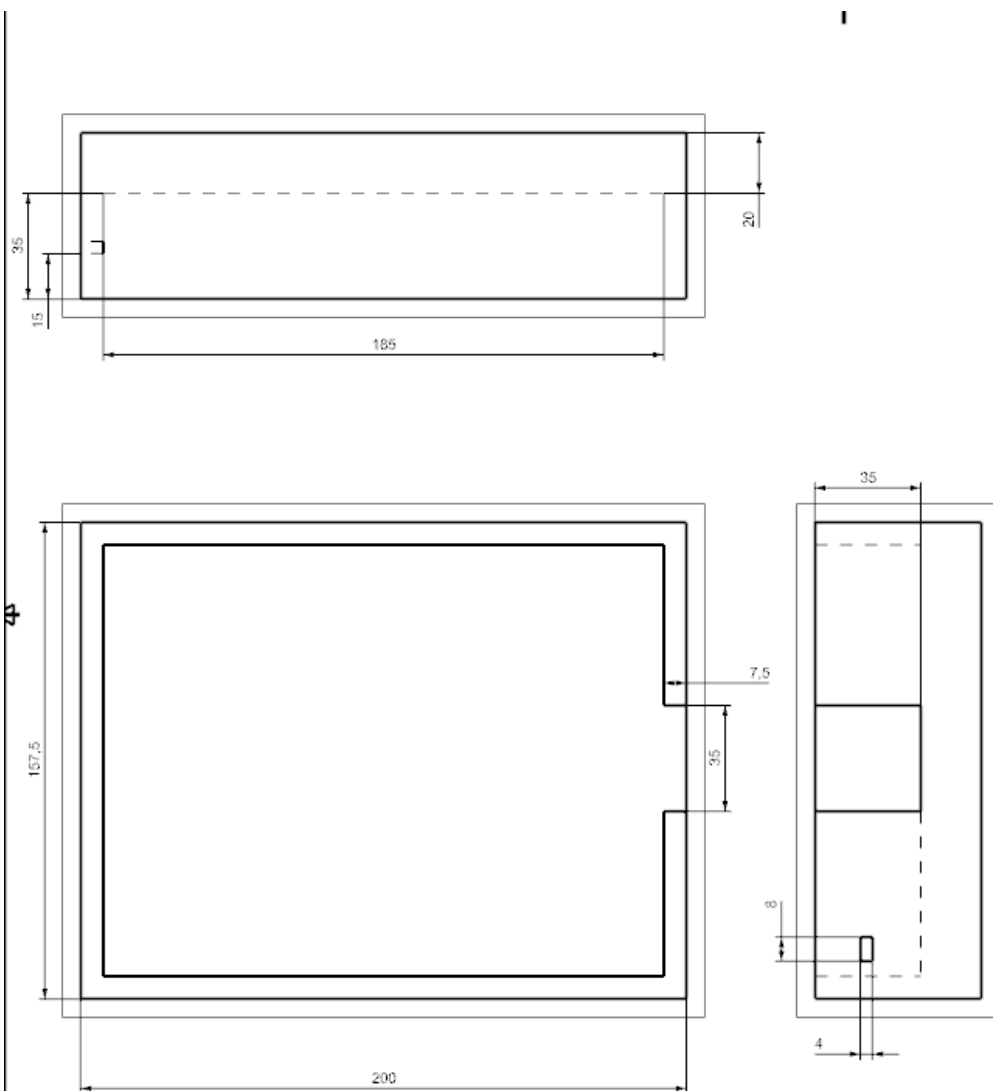
18	AA BATTERY	2
17	BATTERY HOLDER	1
16	FASTENER	2
15	WIRING	1
14	ADHESIVE GLUE	1
13	GEAR	1
12	SWITCH	1
11	MICRO MOTOR	1
10	L BRACKET	2
9	PRESSURE PLATE	1
8	PIN	1
7	SWITCH HOUSING	1
6	SERVO ARM	1
5	MARBEAL	1
4	GATE	1
3	GUIDED TRACK	1
2	LEVER_ARM_HOUSING	1
1	PRASE	1
PC NO	PART NAME	QTY

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 TOLERANCE:
 FIRST DECIMAL $\pm 0,1$

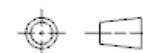


ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING IS A MECHANICAL DRAWING OF A MECHANICAL PART OR ASSEMBLY. IT IS NOT A PHOTOGRAPH OF THE PART OR ASSEMBLY.	
PART NAME	100-1000	FULL ASSEMBLY	
QUANTITY	1		
DATE	10/10/2010		
BY	10/10/2010		
SCALE	1:1	SHEET 1 OF 1	

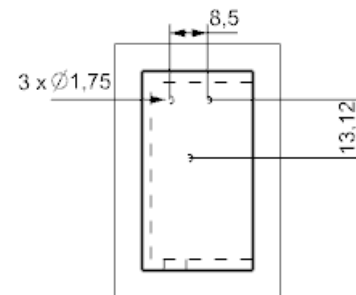
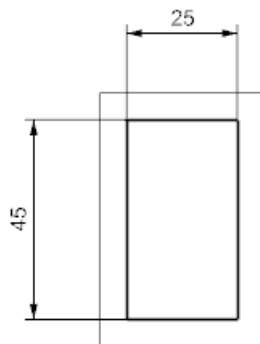
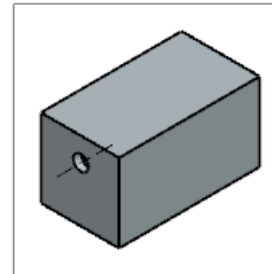
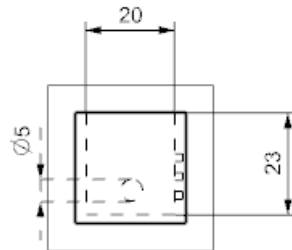


UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCE:
FIRST DECIMAL ± 0.1
ALL THICKNESS IS 7.5 MM



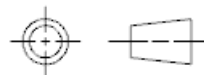
ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE	
FIRST ISSUED	Udoen Grotum	TITLE	
DRAWN BY	Udoen Grotum	Device Frame	
CHECKED BY	Udoen Grotum	Frame	
APPROVED BY	Udoen Grotum	SCALE 1:1	
		SHEET 1 OF 1	



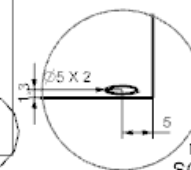
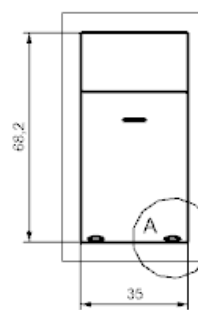
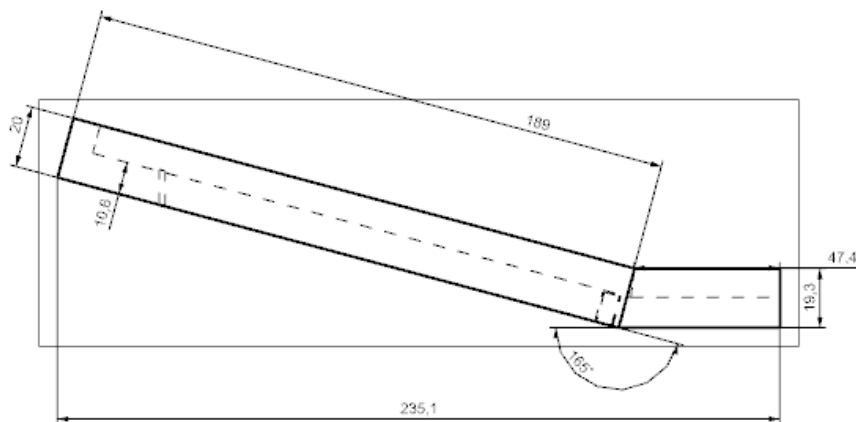
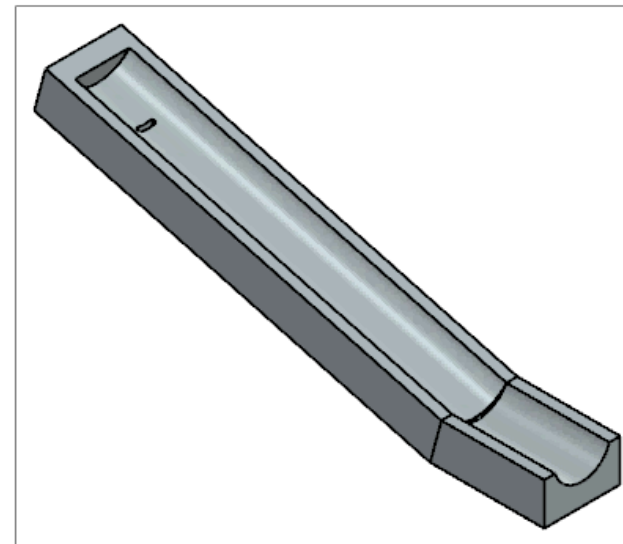
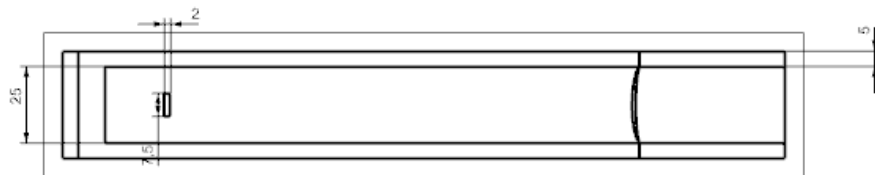
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS

TOLERANCE:
FIRST DECIMAL ± 0.1
SECOND DECIMAL ± 0.01

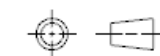


ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE		
FIRST ISSUED	Jordan Goodwin	Motor Housing		
DRAWN BY	Jordan Goodwin			
CHECKED BY	Jordan Goodwin			
APPROVED BY	Jordan Goodwin			
		SIZE	DRG NO.	SHEET REV.
		A3	Lever_Arm_Housing	A
		SCALE 1:1		SHEET 1 OF 1

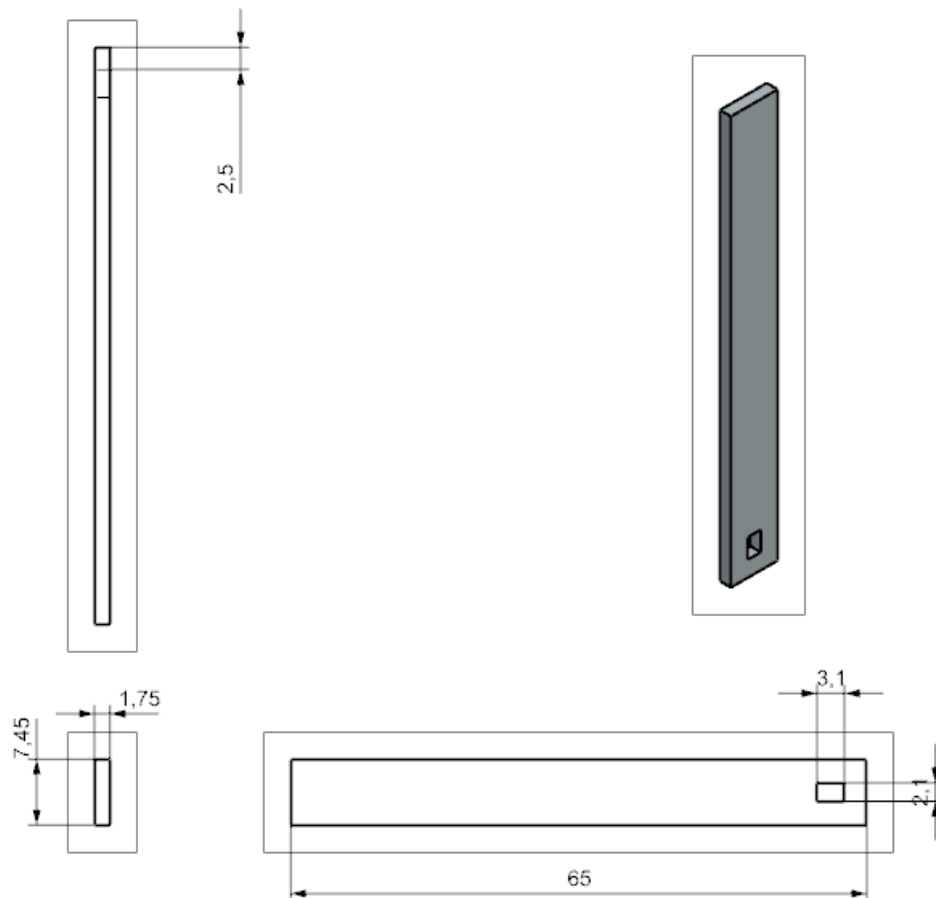


UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCE:
ONE DECIMAL PLACE ± 0.1
BORE DEPTH FOR HOLES: 10 MM



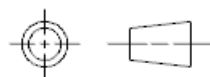
ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE	
FIRST ISSUED	Order Number	TITLE	
DRAWN BY	Order Number	Guided Track for Marble	
CHECKED BY	Order Number	REV	DESCRIPTION
APPROVED BY	Order Number	A2	Guided Track
		SCALE 1:1	SHEET 1 OF 1



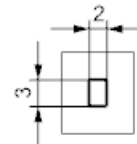
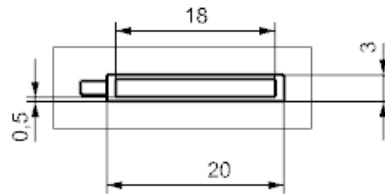
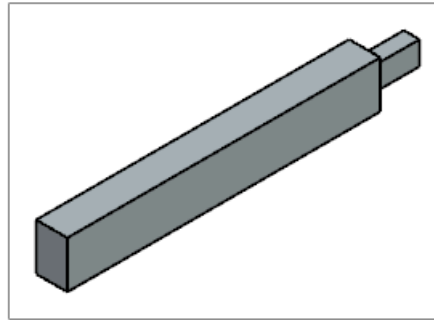
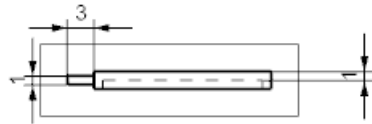
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS

TOLERANCE:
FIRST DECIMAL ± 0.1
SECOND DECIMAL ± 0.01

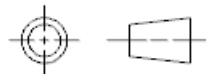


ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE	
FIRST ISSUED	Jordan Goodwin	TITLE	
DRAWN BY	Jordan Goodwin	Guided Track Gate	
CHECKED BY	Jordan Goodwin	Gate	
APPROVED BY	Jordan Goodwin	SIZE	DRG NO.
		A3	
		SCALE 1:1	SHEET 1 OF 1
			A



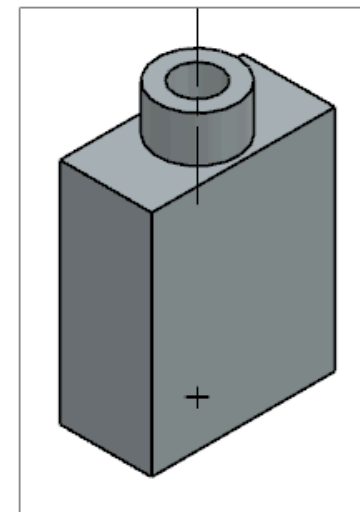
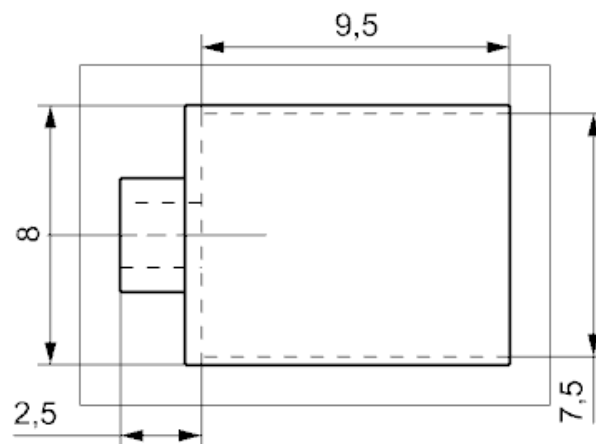
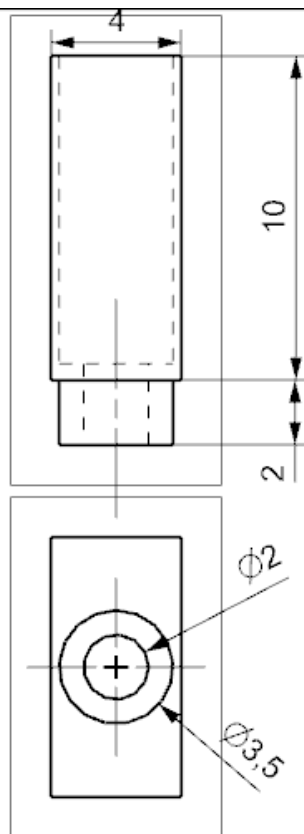
UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 TOLERANCE:
 FIRST DECIMAL ± 0.1



ALL DIMENSIONS IN MM

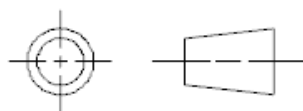
SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE		
FIRST ISSUED	Jordan Goodwin	TITLE Servo Arm		
DRAWN BY	Jordan Goodwin			
CHECKED BY	Jordan Goodwin			
APPROVED BY	Jordan Goodwin	SIZE	DRG NO.	SHEET REV
		A3	Servo_Arm	A
		SCALE 1:1		SHEET 1 OF 1

4



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCE:

FIRST DECIMAL +/- 0.1



ALL DIMENSIONS IN MM

SIEMENS

THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE
TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE

FIRST ISSUED	Jordan Goodwin
DRAWN BY	Jordan Goodwin
CHECKED BY	Jordan Goodwin
APPROVED BY	Jordan Goodwin

TITLE

Switch Housing

SIZE

DRG NO.

A4

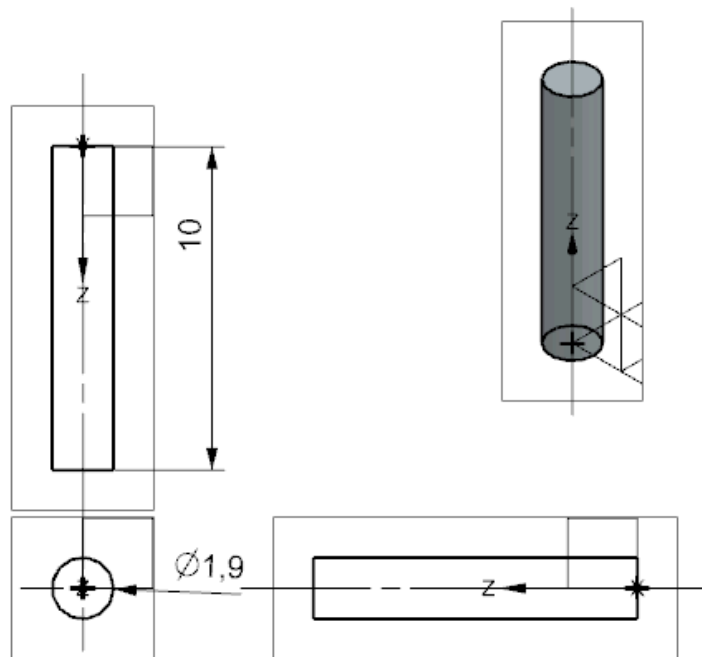
Switch_housing

SHEET REV

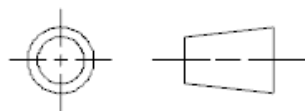
A

SCALE 1:1

SHEET 1 OF 1

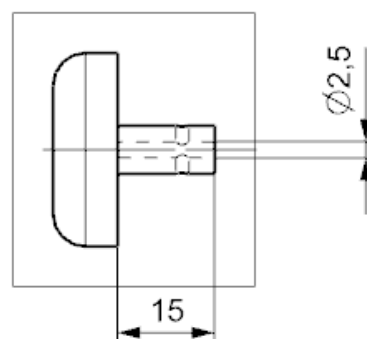
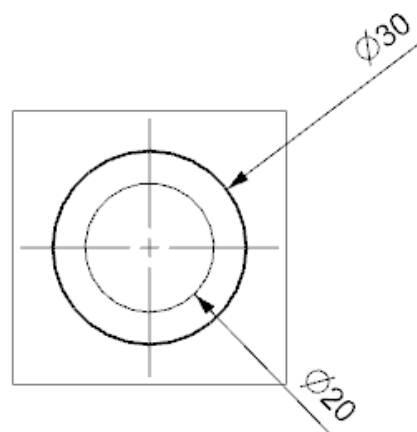
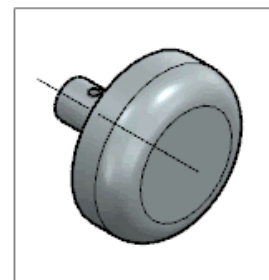
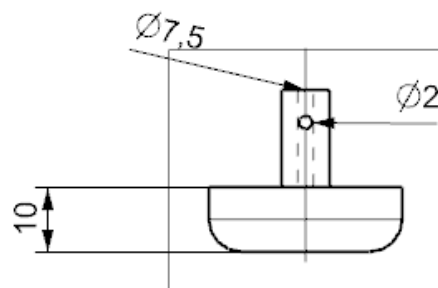


UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 TOLERANCE:
 FIRST DECIMAL +/- 0.1

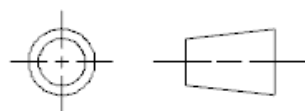


ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE		
FIRST ISSUED	Jordan Goodwin	TITLE Pin		
DRAWN BY	Jordan Goodwin			
CHECKED BY	Jordan Goodwin			
APPROVED BY	Jordan Goodwin	SIZE	DRG NO.	SHEET REV
		A4	pin	A
		SCALE 1:1		SHEET 1 OF 1



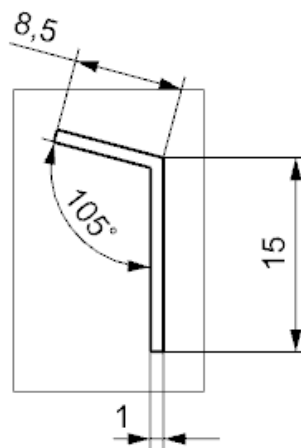
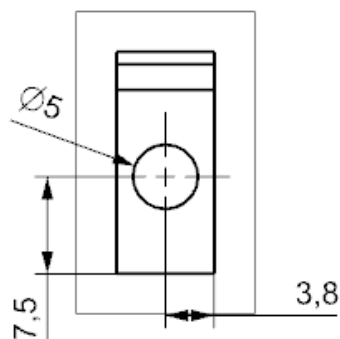
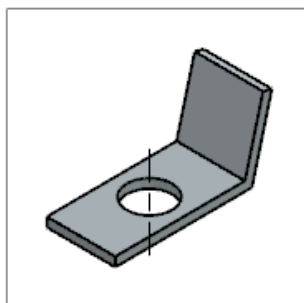
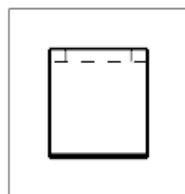
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
TOLERANCE:
FIRST DECIMAL +- 0.1



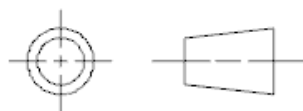
ALL DIMENSIONS IN MM

SIEMENS		THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE		
FIRST ISSUED	Jordan Goodwin	TITLE Switch Pressure Plate		
DRAWN BY	Jordan Goodwin			
CHECKED BY	Jordan Goodwin	SIZE DRG NO. A4 Pressure_Plate		
APPROVED BY	Jordan Goodwin			
		SCALE 1:1		SHEET REV A
		SHEET 1 OF 1		

4



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCE:
FIRST DECIMAL +- 0.1



ALL DIMENSIONS IN MM

SIEMENS

THIS DRAWING HAS BEEN PRODUCED USING AN EXAMPLE
TEMPLATE PROVIDED BY SIEMENS PLM SOFTWARE

FIRST ISSUED	Jordan Goodwin
DRAWN BY	Jordan Goodwin
CHECKED BY	Jordan Goodwin
APPROVED BY	Jordan Goodwin

TITLE

Angle Bracket

SIZE DRG NO.

A4

L_Bracket

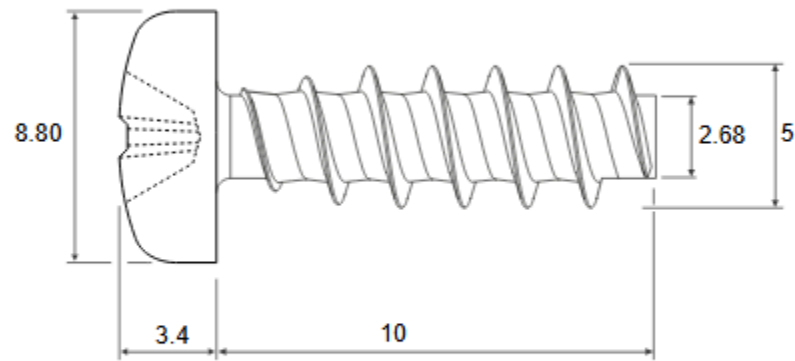
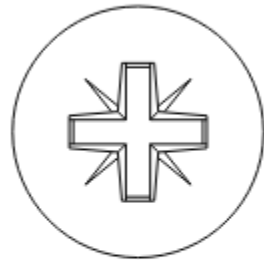
SHEET REV

A

SCALE 1:1

SHEET 1 OF 1

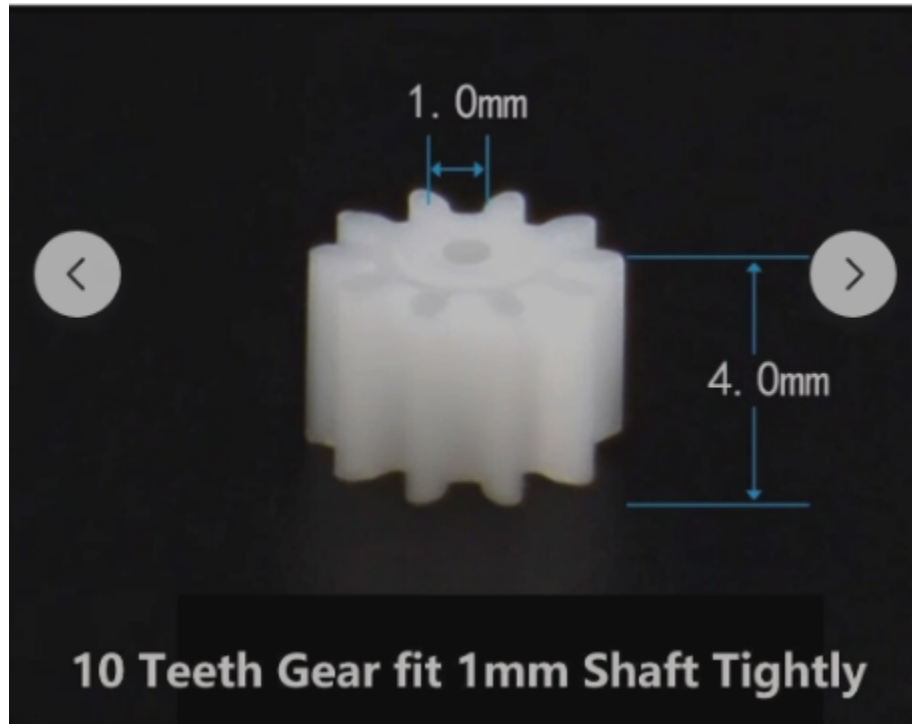
FASTENER:



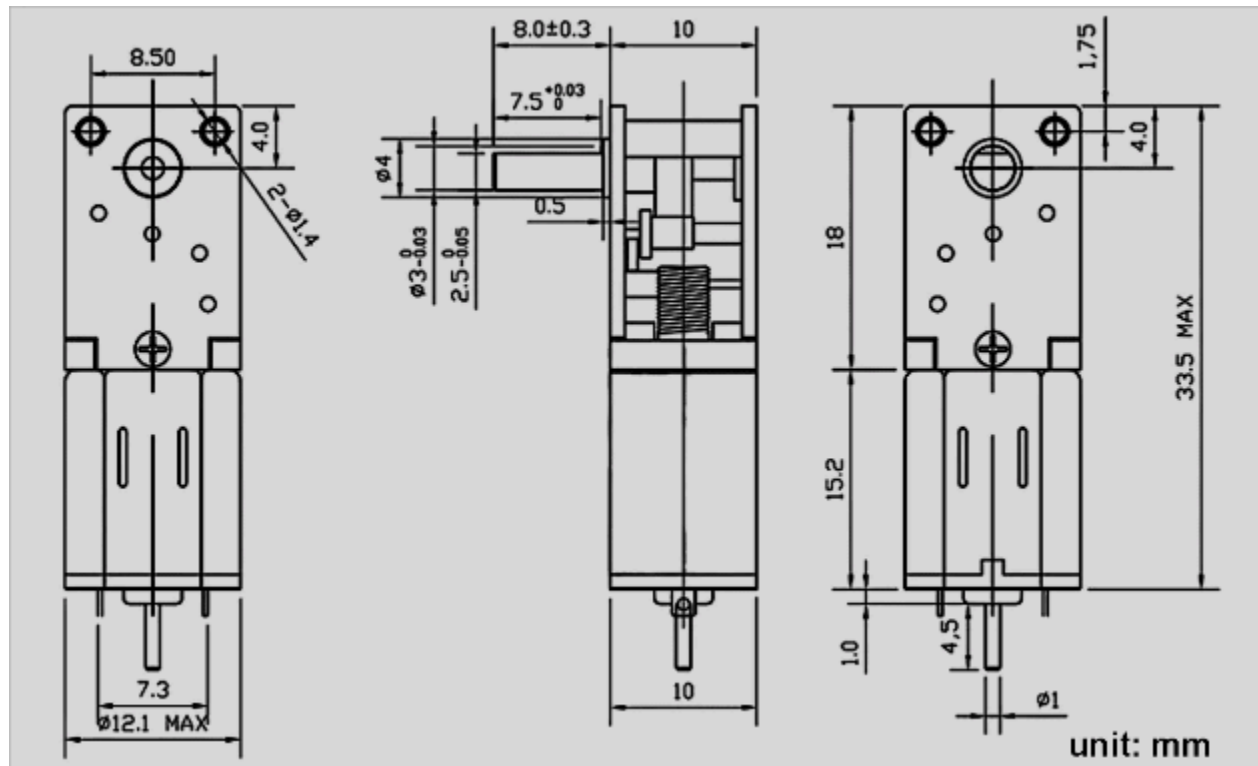
Unless specified, all dimensions are in millimeters



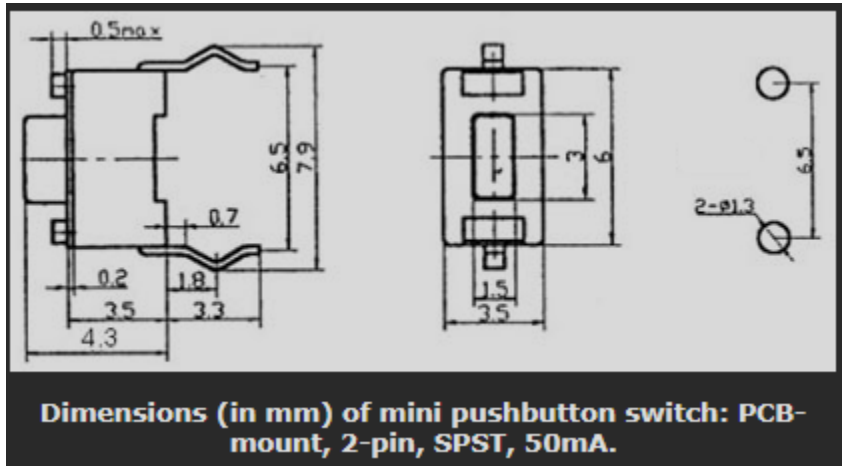
GEAR:



12 MM GEAR MOTOR



SWITCH:



LINKS FOR BILL OF MATERIALS:

1. 12 MM DC GEAR MICRO MOTOR

A. https://precisionminidrives.com/product/12mm-micro-dc-gear-motor-34mm-type-model-nfp-gw12trs-n20?gad_source=1&gad_campaignid=18478080173&gbraid=0AAAAAomY7RWjkVa09DpCruy69_cC638x_&gclid=CjwKCAiAlMHlBhAcEiwAZhZBUukQIF8OCYtCnUzSNgiHfgyQbbfjnBUApV8JtlRtErdnqkF656n0oxoCtYcQAvD_BwE

2. MINI PUSHBUTTON SWITCH 2 PIN

B. <https://www.pololu.com/product/1400>

3. GORILLA GLUE ADHESIVE GLUE

C. <https://www.amazon.com/Gorilla-Original-Waterproof-Polyurethane-Bottle/dp/B0000223UV?th=1>

4. FASTENERS

- D. <https://www.trfastenings.com/products/Catalogue/Screws-and-Bolts/Screws-for-Plastic/Plas-Tech-30/Pan-Head/PoziDriv/TR00032257-103>

5. WIRING

- E. https://www.amazon.com/BNTECHGO-Silicone-Flexible-Strands-Stranded/dp/B07HGT44XY/ref=sr_1_6?adgrpid=186837253656&dib=eyJ2ljojMSJ9.Mhsu774aG5VoLIUnQ3so7vJJSE1Uv7mhvIQOscbgg5aIP-ZrWsHSIQguiQJB7GC-7xZOAkACZwF_0OSx1u0biivpBKXuUrG_yCVRKmQ1zzzQYANxVekkX_TQ4QswaW2_ETlbb6uoT0afoJafeR_zktogxtreWemm9uVo70L8QHmFIfO1Vn0UvuubKKBmtvp2wTLQpPARF_pO14Op5eSB00-u9JqRS_CE50KB54piq9ti2VMTmbScWbK4lvP6Kv06HFnDn73fQmIT6aXntDvtzQJmw9UFABBoKj_Sp3F3OM.NYGTr1lryy-Ygnyv54pPR8ID1kcxDTmY5K9FhvZkD9w&dib_tag=se&hvadid=779559763894&hvdev=c&hvexpln=0&hvlocphy=1024429&hvnetw=g&hvociid=3196977200425059969--&hvgmt=b&hvrnd=3196977200425059969&hvtargid=kwd-1968340676330&hydadcr=3640_13856596_2126675&keywords=22%2Bawg%2Bstranded%2Bsilicone%2Bwire&mcid=2a62df154d913f6ab9be76928c858562&qid=1762739468&sr=8-6&th=1

6. 1MM PLASTIC GEAR

- F. https://www.ebay.com/itm/357511098413?chn=ps&mkevt=1&mkcid=28&var=626149079292&google_free_listing_action=view_item&srltid=AfmBOortXslggqYEdd3ADZuEAmvg9oe-bp25jJizd7efndMryNyZJhEclUo

7. AA BATTERIES

- G. amazon.com/AmazonBasics-Performance-Alkaline-Batteries-8-Pack/dp/B00O869KJE/ref=sr_1_1_ffob_ssapa?crid=1349MBU MHDTFF&dib=eyJ2ljojMSJ9.iF-VDq6PgDSgOxmIvHs3LKCPA5aL0IrvmhbaQ7IND37HoY9tk_9UNJ0O3H8V651vVxdADtmplRwyj_6YHGvnCF6AdsyUjD5kyKyrLaypsGf_DF2Mn1KmBPbiNr0YEEEmTxWZER6DoyEDUKFDONAKQAR04KNEEkm7EnhWoXCDSmfNZZFona98NVFCDPmOxSWy6uCV3a89VpBMH-mG8mXzdOibnP8e5scCm8N9jhsR-RvGJXThGjmr2qnTjxZ8upBi

[Nu69jZb-aw7R4S75swoHB7Tou9lBmOO2U4uAb1bKE0.Q8mtM9SA22NQq6zAsExLSa_hS3DMZt2b1fL-LSiHPQo&dib_tag=s
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pons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1](https://www.aliexpress.com/wholesale?group_id=1762740114&keywords=aa+batteries+4+pack&qid=1762740114&rdc=1&s=hpc&sprefix=aa+batteries+4+pack%2Chpc%2C343&sr=1-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1)

8. BATTERY HOLDER

H. <https://www.adafruit.com/product/4194>

9. MARBLES

I. https://us.shein.com/goods-p-54267431.html?goods_id=54267431&test=5051&url_from=adhub464801322&scene=1&pf=google&ad_type=DPA&language=en&siteuid=us&version_bid=101682411,101507551,100710741,101545096,101682511&version_id=100647471&landing_page_id=1510&ad_test_id=43125&requestId=olw-56p1t5mof3od&cid=22684906243&qad_source=1&skucode=I17j591okfqg&onelink=0/googlefeed_us&network=g&qad_campaignid=22684906243&gclid=CjwKCAiAlMHIBhAcEiwAZhZBUj5aFJw0p7-pWCPRStrp2johSNMx_pMCif0kcNoOlnH6ZlabgUVUahoCGFIQAvD_BwE&adid=758738940161&tv_b=2&geoid=1024429&gbraid=0AAAAADm0yO7Ytu9Tx3-ARGY1FpJq000C-&setid=183772007169&kwd=pla-2465290521764¤cy=USD&lang=us