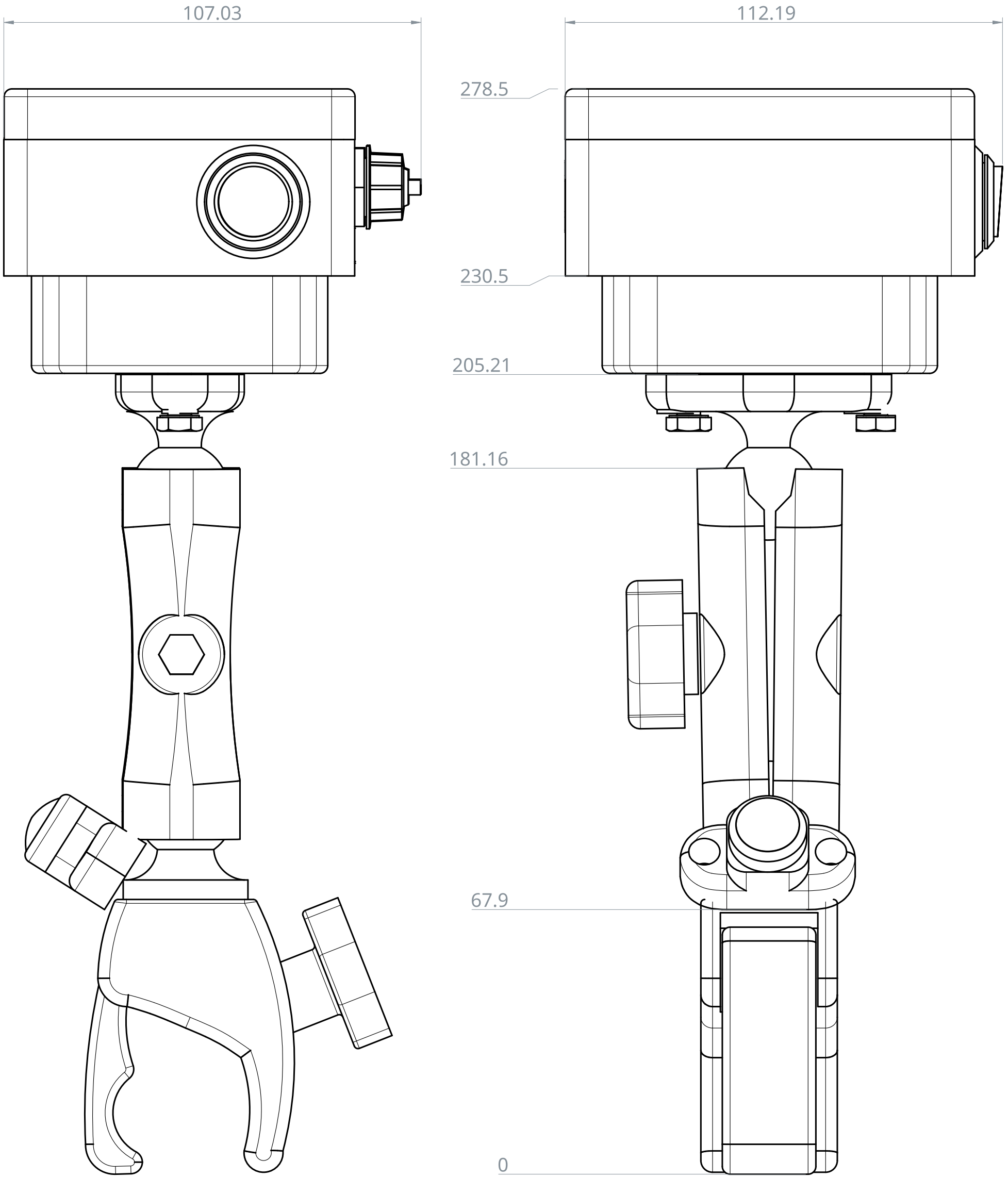
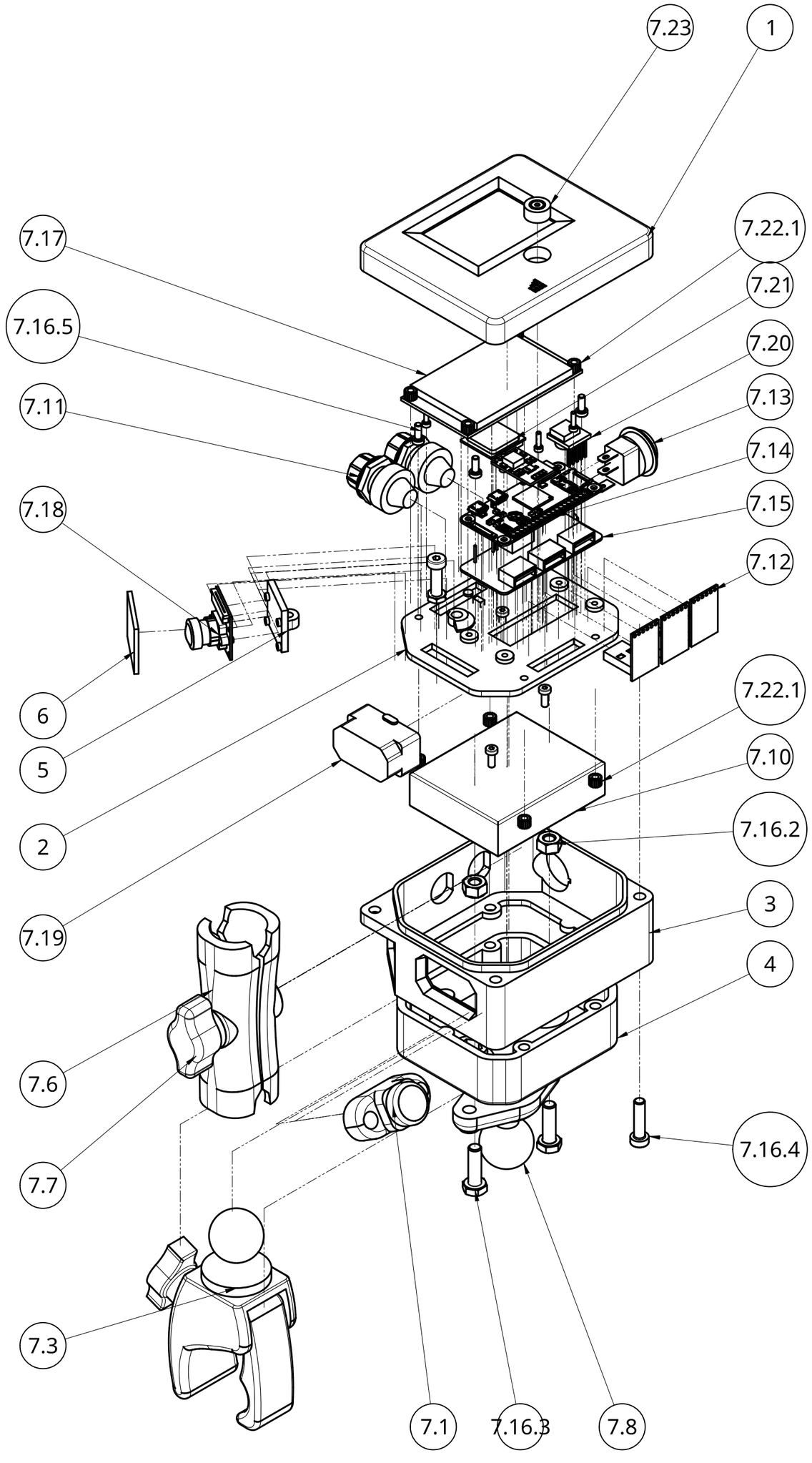


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	SIGNATURE	DATE
Conception: Andres Henao carlosa.henaof@inrs.ca	DRAWN	ANDRES HENAO		2023-10-19
Programming: Andres Henao carlosa.henaof@inrs.ca David Maignan davidmaignan@gmail.com	CHECKED			
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca	APPROVED			
	MATERIAL		FINISH	

One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

TITLE: One meter plus Assembly

SIZE	DWG NO.	REV.
SCALE 1:1	WEIGHT	SHEET 1 of 7



Item	Quantity	Name
1	1	Top Cover v2
2	1	Panel v2
3	1	Bottom Case v2-Sup
4	1	Bottom Case v2-Bat
5	1	Camera support
6	1	Acrylic cover
7	1	Standard products
7.1	1	Button1
7.2	1	Button2
7.3	1	RAM Arm1
7.4	1	RAM Arm2
7.5	1	RAM Arm3
7.6	2	RAM Support
7.7	1	RAM Support2
7.8	1	Ram ball support diamond
7.9	1	HW-775 Charger
7.10	1	Lithium Battery x 3
7.11	1	Waterproof micro usb port
7.12	1	USB to ttl connectors
7.13	1	waterproof switch
7.14	1	Raspberry pi zero w
7.15	1	USB HUB Zero
7.16	1	Nuts and screws
7.16.1	2	Hex thin nut grade A & B M5x0.8
7.16.2	2	Hex nut style 2 grade A & B M6x1.0
7.16.3	2	Hex head screw grade A & B M6x1.00 x 20
7.16.4	3	Hex socket head cap screw M5x0.80 x 20
7.16.5	7	Hex socket head cap screw M3x0.50 x 8
7.16.6	6	Hex socket head cap screw M2x0.40 x 8
7.17	1	Touch screen nextion
7.18	1	Raspberry Pi Camera (G) 160°
7.19	1	Tfmini plus micro lidar
7.20	1	Clock DS3231 RTC
7.21	1	GPS Beitian BN 220
7.22	1	Knurled nut insert M3
7.22.1	8	Knurled Nut Insert M3
7.23	1	Niveau a bulle 12 mm

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS

Conception: Andres Henao
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Andres Henao
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David Maignan
davidmaignan@gmail.com
Supervisor: Philippe Apparicio
philippe.apparicio@inrs.ca

	NAME	SIGNATURE	DATE
DRAWN	ANDRES HENAO		2023-08-05
CHECKED			
APPROVED			

MATERIAL

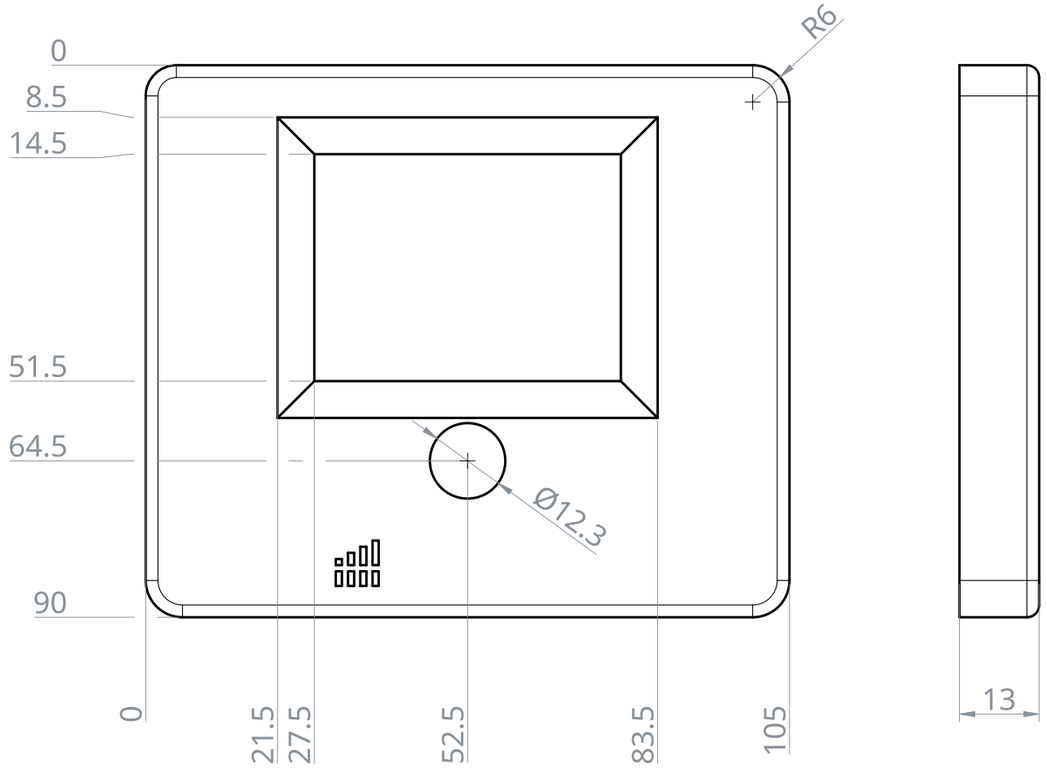
FINISH

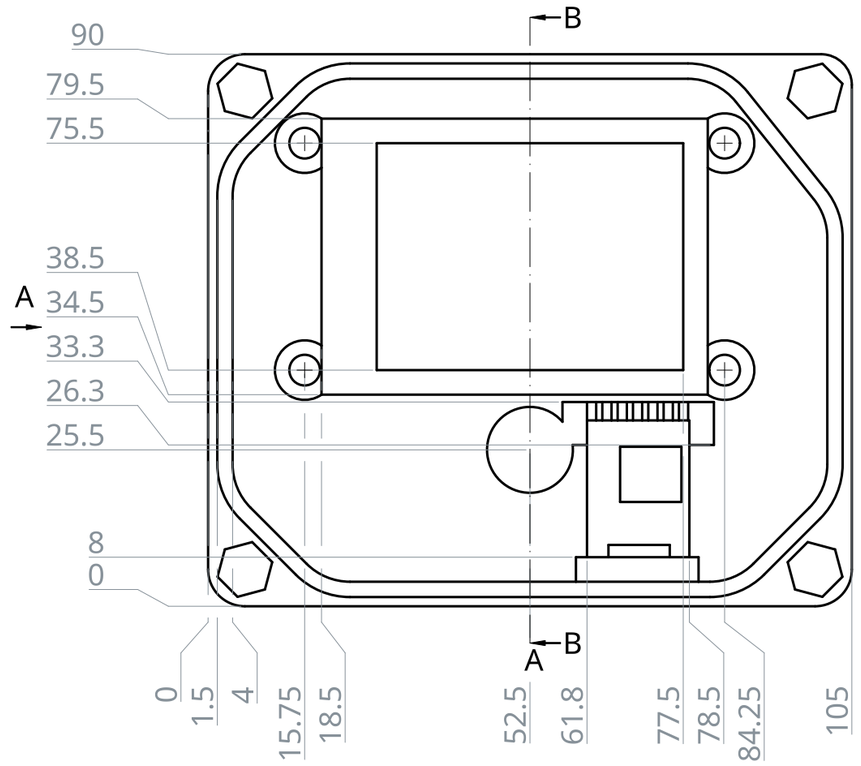
One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

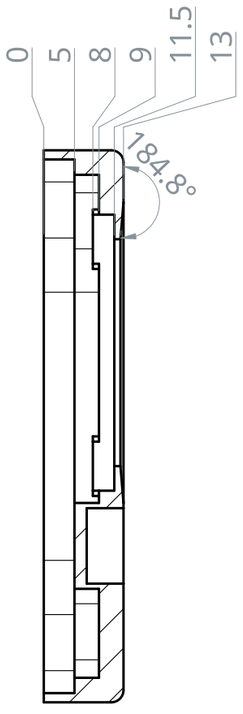
TITLE: One meter plus Assembly

SIZE | DWG NO. | REV.

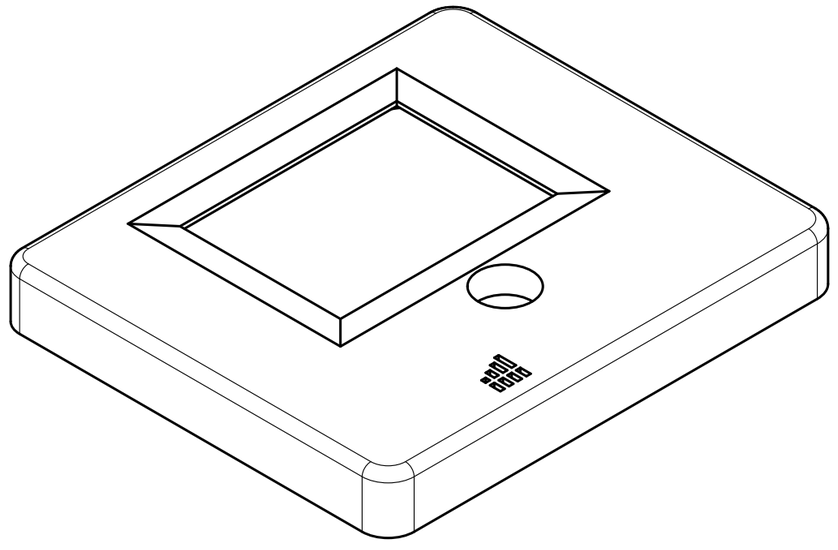
SCALE 1:2 | WEIGHT | SHEET 2 of 7







B - B



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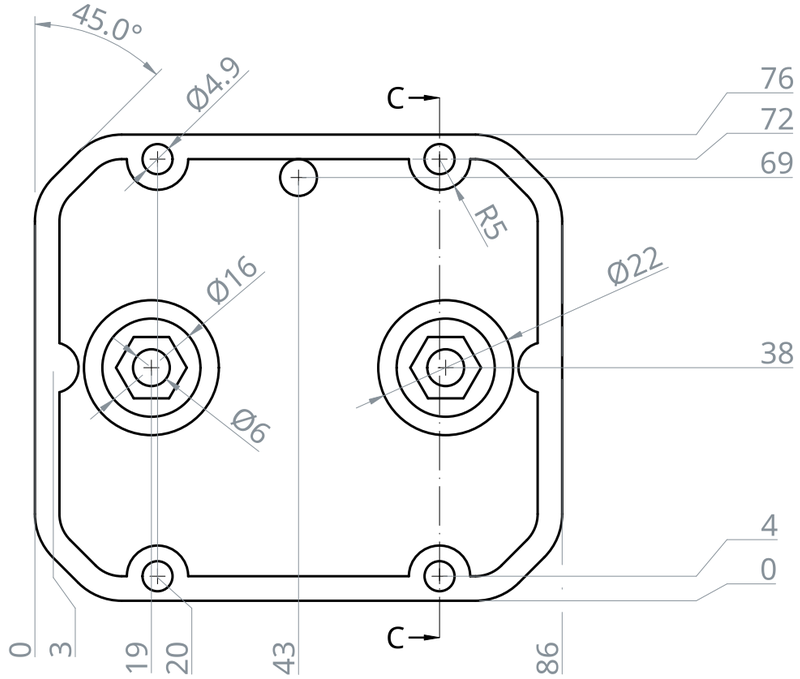
	APPROVED			
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca	MATERIAL		FINISH	

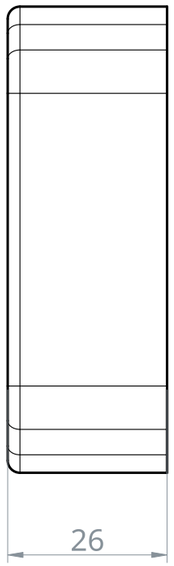
One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

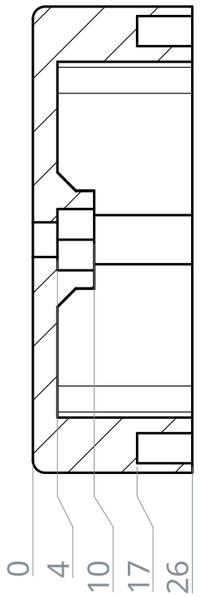
TITLE: One meter plus Top Cover

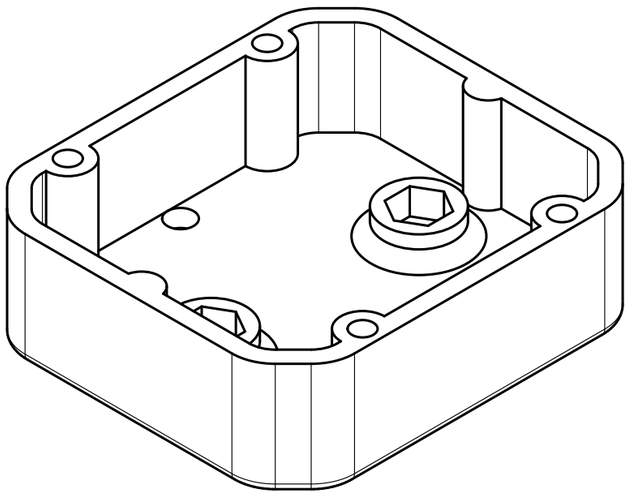
SIZE	DWG NO.	REV.
A3		

SCALE	WEIGHT	SHEET
1:1		3 of 7









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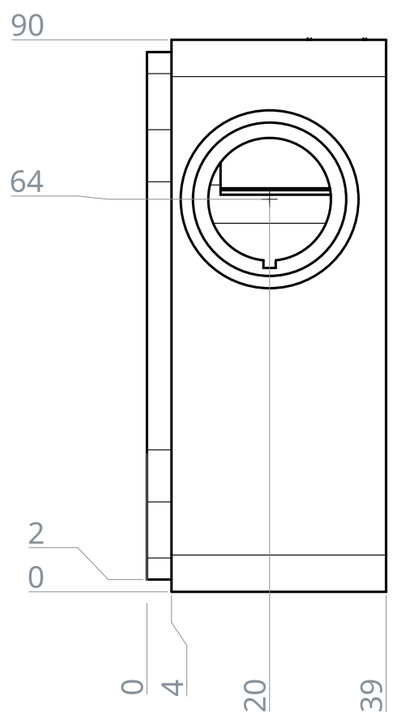
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca	APPROVED			
	MATERIAL		FINISH	

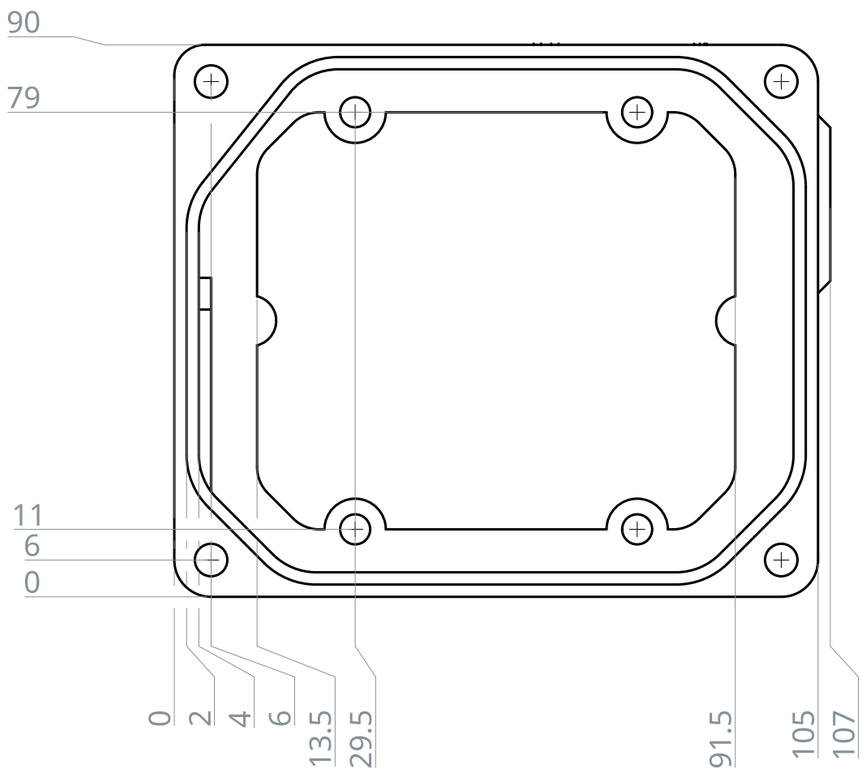
One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

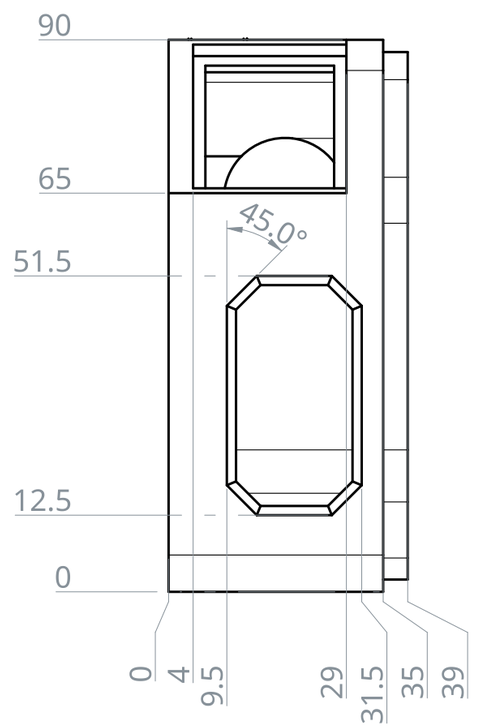
TITLE: One meter plus Battery Cover

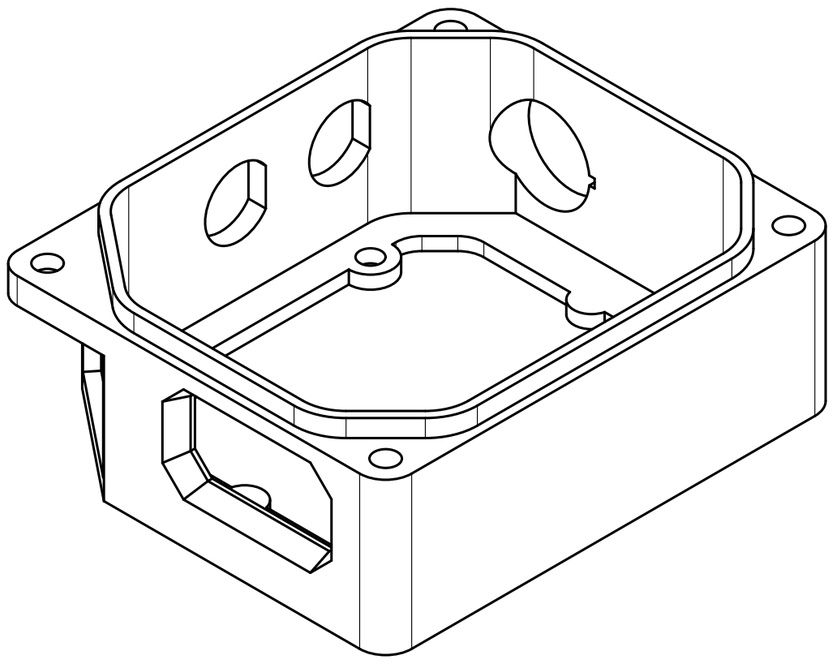
SIZE	DWG NO.	REV.
A3		

SCALE	WEIGHT	SHEET
1:1		4 of 7









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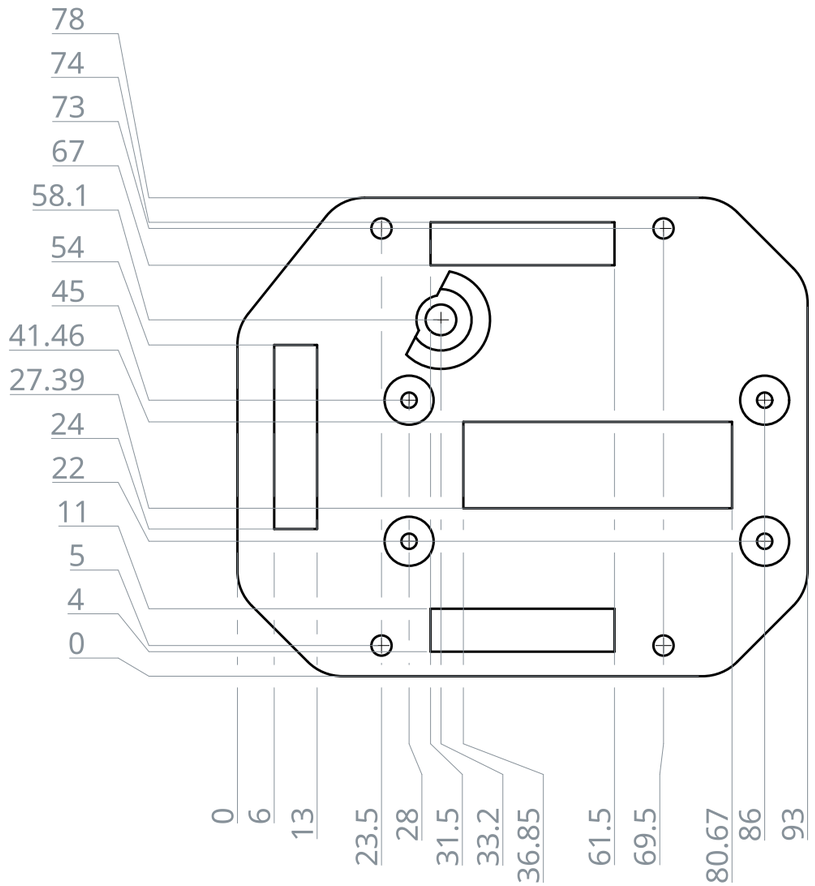
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca	APPROVED			
	MATERIAL		FINISH	

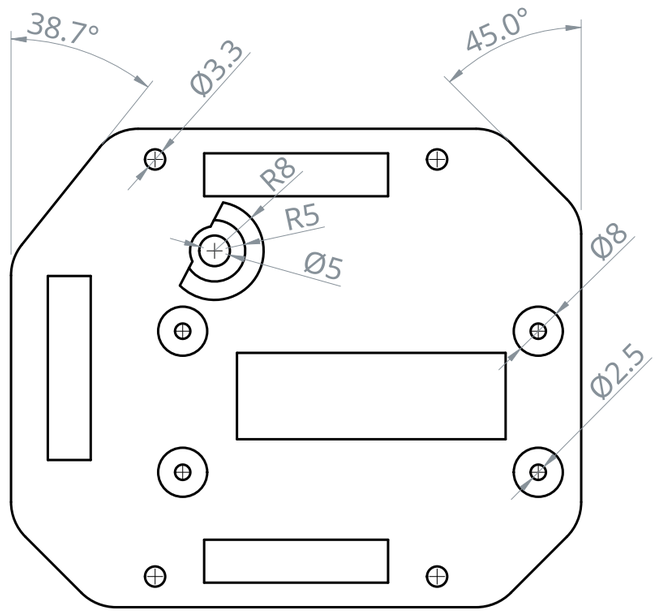
One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

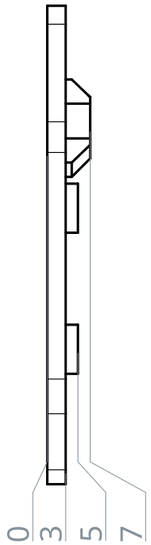
TITLE: One meter plus Middle cover

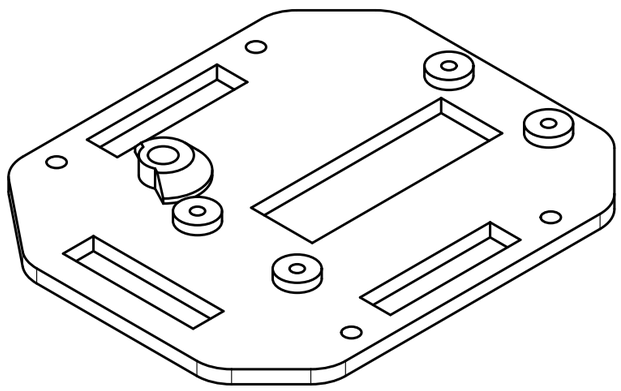
SIZE: A3 | DWG NO. | REV.

SCALE: 1:1 | WEIGHT | SHEET: 5 of 7









		NAME	SIGNATURE	DATE
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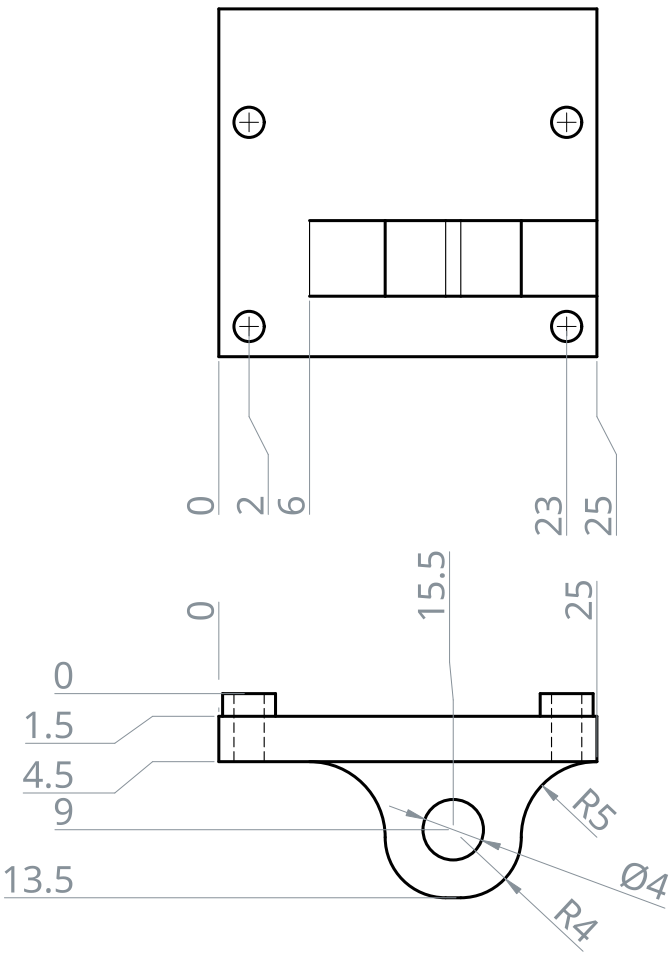
Conception: Andres Henao carlosa.henaof@inrs.ca	DRAWN	ANDRES HENAO		2023-10-19
Programming: Andres Henao carlosa.henaof@inrs.ca David Maignan davidmaignan@gmail.com	CHECKED			
	APPROVED			
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca				
	MATERIAL		FINISH	

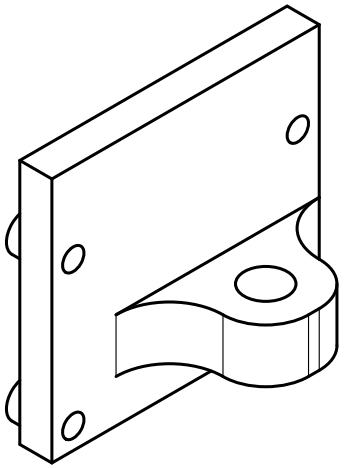
One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

TITLE: One meter plus Middle Support

SIZE: A3 | DWG NO. | REV.

SCALE: 1:1 | WEIGHT | SHEET: 6 of 7





UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	SIGNATURE	DATE
Conception: Andres Henao carlosa.henaof@inrs.ca	DRAWN	ANDRES HENAO		2023-10-19
Programming: Andres Henao carlosa.henaof@inrs.ca David Maignan davidmaignan@gmail.com	CHECKED			
Supervisor: Philippe Apparicio philippe.apparicio@inrs.ca	APPROVED			
	MATERIAL		FINISH	

One meter plus (1M+): multifunction open source sensor for bicycles based on raspberry pi

TITLE: One meter plus Camera support

SIZE	DWG NO.	REV.
A4		

SCALE	WEIGHT	SHEET
2:1		7 of 7