ATSB SERIES

Ultra-Thin Torque Sensor

ATSB SERIES

Features

- Ultra-Thin torque sensor

- All-in-one sensor (No additional amplifier)

- Digital output communications (CAN, etc)

- Easy installation and data collection

- Collaborative robot, industry application, automation

Specification table

Index	Unit	Value			
		ATSB50	ATSB100	ATSB200	ATSB400
Operating voltage	VDC	5			
Max. safe excitation voltage	VDC	10			
Nominal torque range (T_N)	Nm	50	100	200	400
Overload (related to T_N)	%	300			
Resolution	Nm	0.03	0.05	0.1	0.2
Weight	g	120	190	210	310
Dimensions	mm	D84 x H14	D100 x H16	D100 x H18	D120 x H20
Sample rate	Hz	1,000			
Interfaces		CAN (2.0 A/B)			
Temperature		10-60 ℃			
Connector		4 PIN VCC / GND / CAN_H / CAN_L			

Pin out
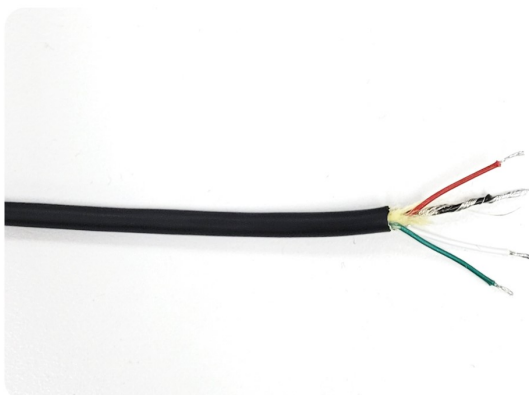
Pin	Signal	Color
1	Vin	Red
2	GND	Black-twisted
3	CAN_HIGH	White
4	CAN_LOW	Green

Bolting example

Concentric surface
(tolerance)

Position pin

Input (reducer)   ATS   Output (link)
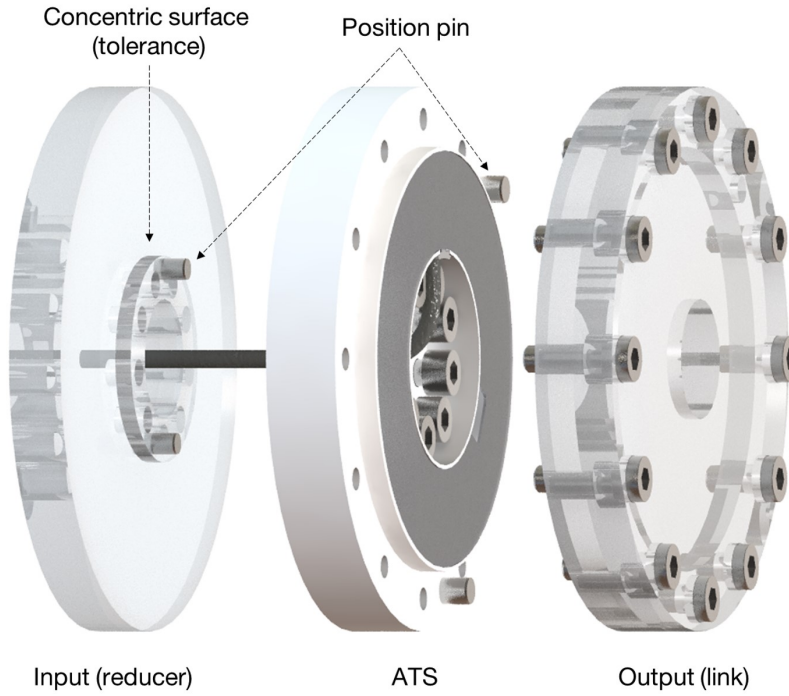
*Transparent parts are user part examples

Drawing

AIDIN ROBOTICS
Joint Torque Sensor
ATSB50-D84

PCD Ø76, 12 X M3 TAP THRU

2 X Ø3 PIN HOLE ↧ 5.5

45°

Ø84

15°

PCD Ø23, 12 X M3 CB

Ø68 g6

14

4.20
9.40
0.40

15°

120°

Ø16

2 X Ø3 PIN HOLE

Ø29 H7

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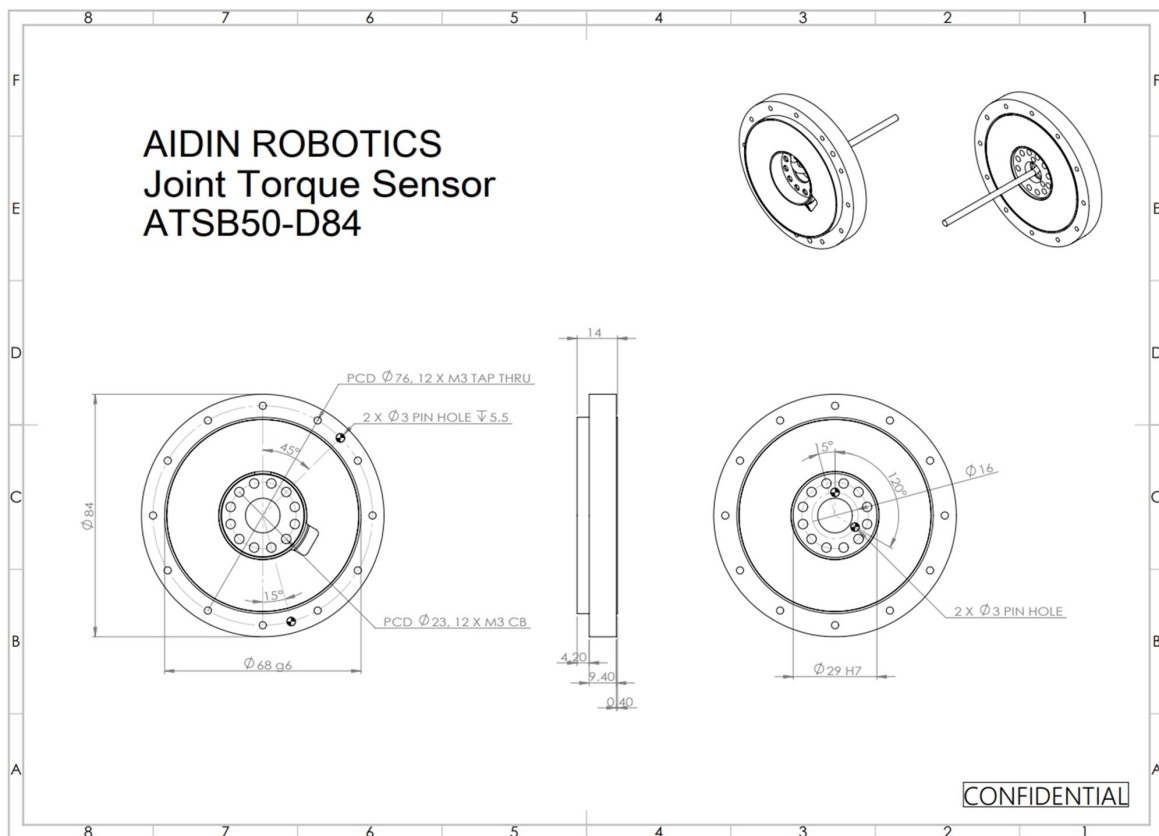
AIDIN ROBOTICS
Joint Torque Sensor
ATSB100-D100

PCD Ø88, 12 X M4 TAP THRU
2 X Ø4 PIN HOLE ⤓ 5.5
Ø100
120°
15°
PCD Ø30, 12 X M4 CB
Ø78 g6

16
4.20
11.40
0.40

15° 120° Ø34
2 X Ø3 PIN HOLE
Ø38H7
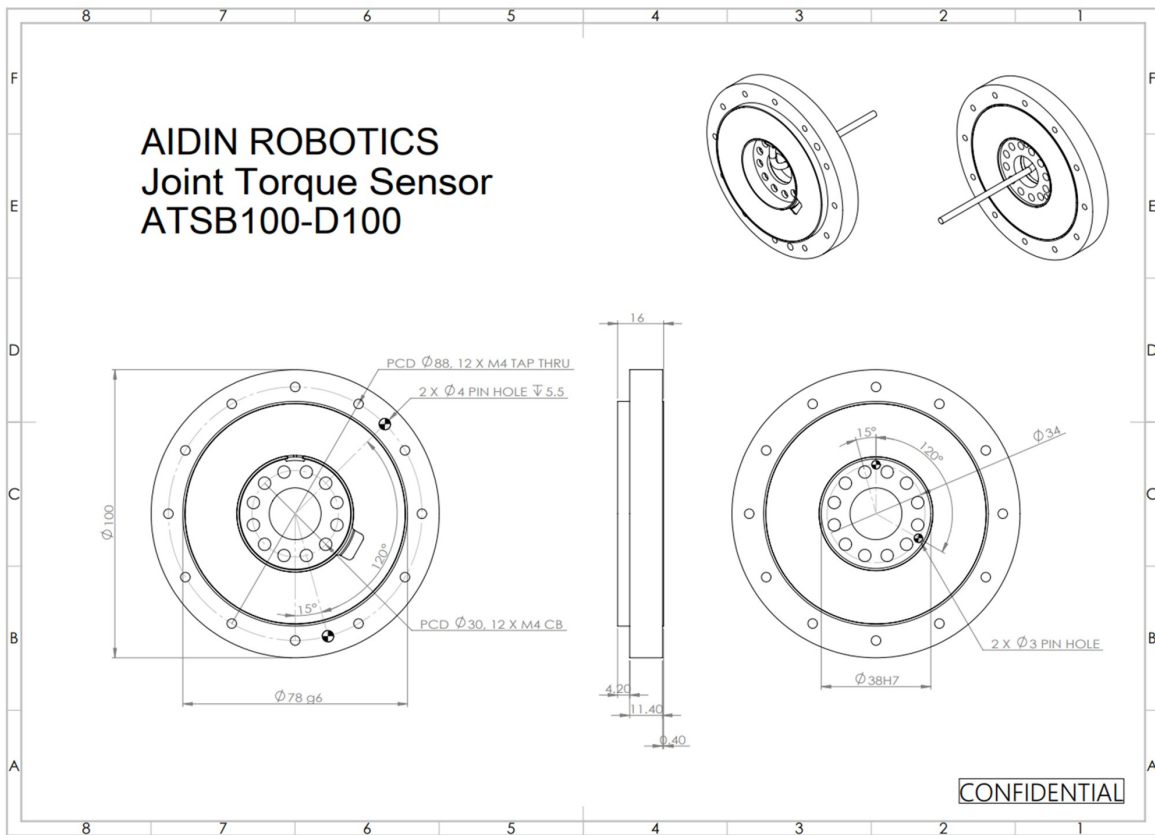
AIDIN ROBOTICS
Joint Torque Sensor
ATSB200-D100

Ø100
Ø78 g6
PCD Ø88, 12 x M5 TAP THRU
30°
15°
Ø88
15°
2 x Ø5 PIN HOLE ⤓ 5.50

18
4.20
13.40
0.40

Ø38H7
PCD 29, 9 x Ø5.30 THRU
20°
Ø33
20°
2 x Ø4 PIN HOLE ⤓ 5.5

AIDIN ROBOTICS

AIDIN ROBOTICS
Joint Torque Sensor
ATSB400-D120

Ø120
Ø98 g6
PCD Ø110, 12 x M5 TAP THRU
30°
15°
Ø30
15°
Ø110
2 x Ø5 PIN HOLE ⊽ 5.50

20
4.20

Ø56 H7
PCD Ø43, 12 x Ø6.30 THRU
15° 30°
Ø49
60°
2 x Ø4 PIN HOLE ⊽ 5.50

CONFIDENTIAL
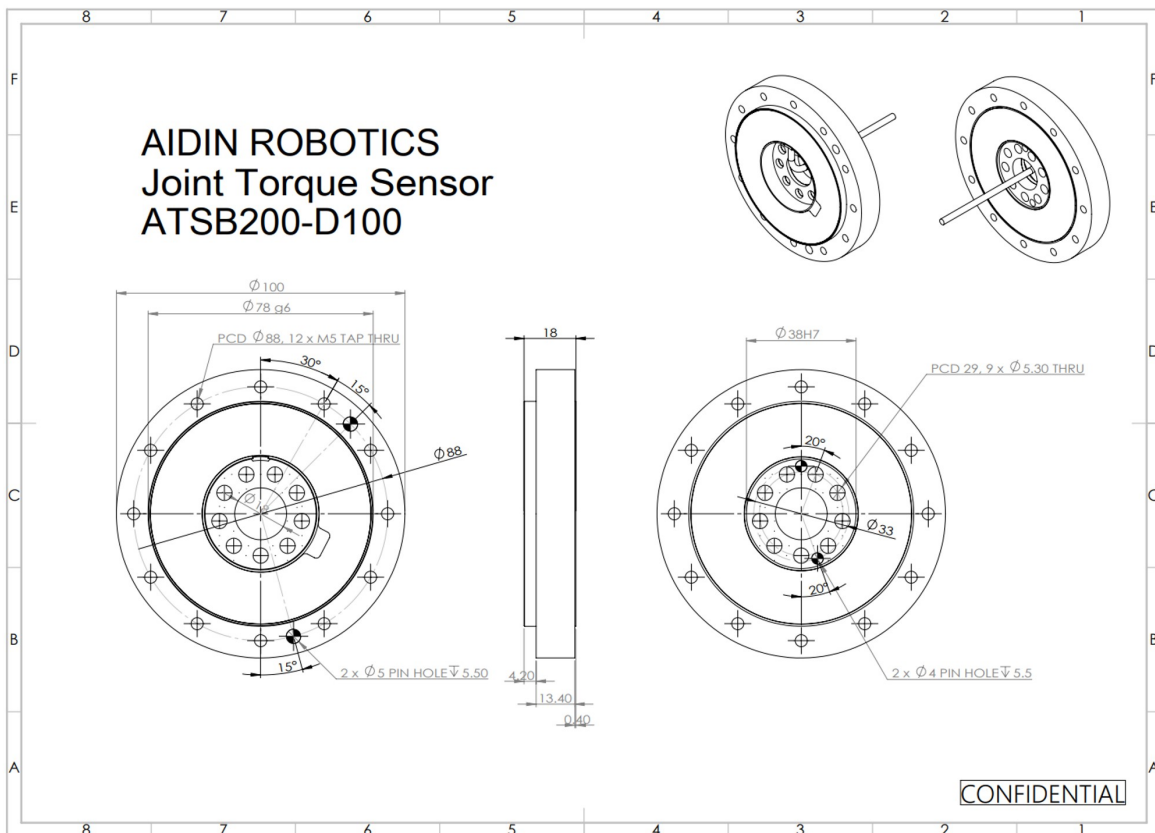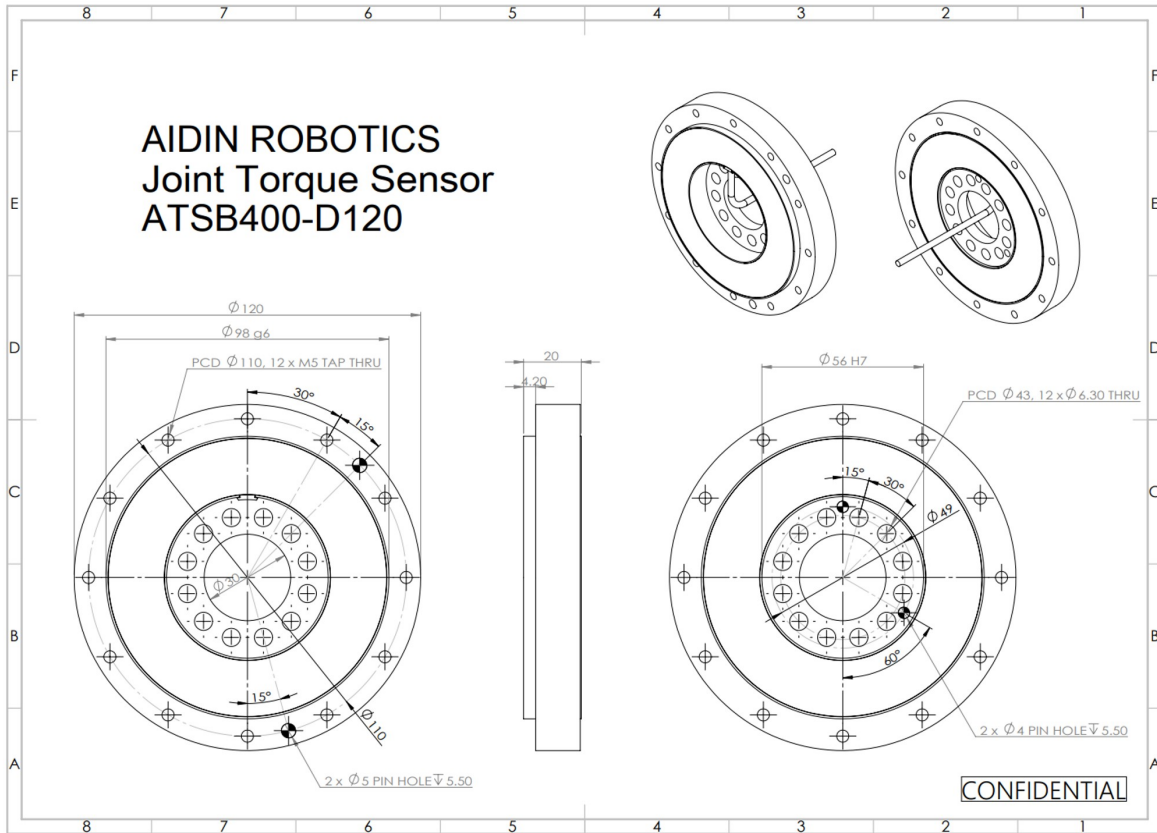
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