

# RFT Series Normal Type

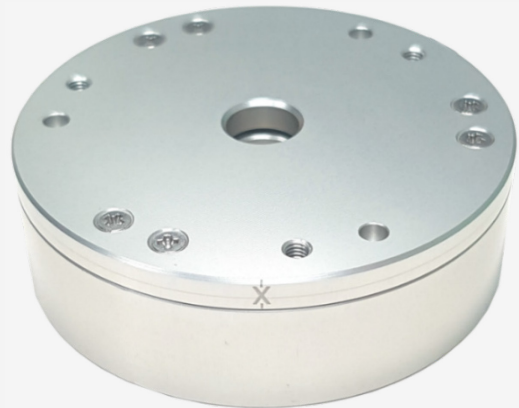
**ROBOTOUS**  
FORCE/TORQUE SENSOR

**RFT40-SA01**



Diameter : 40mm, Solid core

**RFT60-HA01**



Diameter : 60mm, Hollow core ø9mm

- **Capacitive Type**
  - ✓ Sensing capacitance of deformed gap
- **High Durability**
  - ✓ No strain gauge, No adhesive
- **Easy Interface**
  - ✓ Built-in signal circuit & MCU
  - ✓ CAN, USB, RS-232, RS-422
- **Applications**
  - ✓ Field/Industrial Robots, Service Robots and Etc.

## SENSOR SPECIFICATIONS

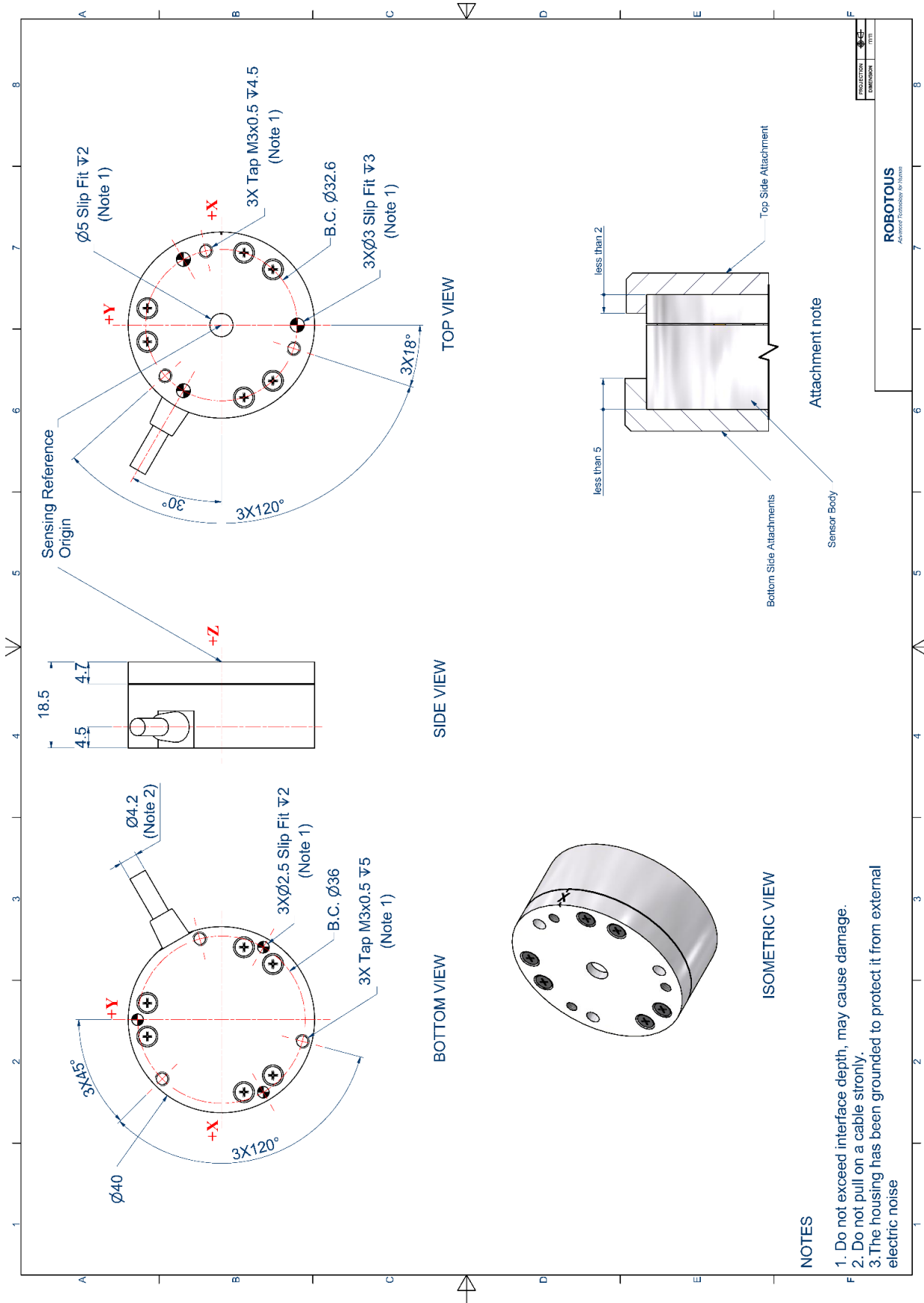
Sensor Figure	Dimension		Weight	Data Rate	Load Capacity			Resolution		
	ø	H	Except Cable	Maximum	Fx, Fy	Fz	Tx, Ty, Tz	Fx, Fy	Fz	Tx, Ty, Tz
	mm	mm	g	Hz	N	N	Nm	mN	mN	mNm
RFT40-SA01	40	18.5	60	200	100	150	2.5	200	200	8
RFT60-HA01	60	18.5	120	1,000	150	200	4	150	200	5

Resolution : The standard deviation of each six components of force and torque for 10second, the data through internal 1<sup>st</sup>-order low pass filter which has cutoff frequency 100Hz

Sensor Figure	Dimension		Hysteresis			Overload Capacity				Cross Talk		
	ø	H	Fx, Fy	Fz	Tx, Ty, Tz	Fx, Fy	Fz+	Fz-	Tx, Ty, Tz	Fx, Fy	Fz	Tx, Ty, Tz
	mm	mm	%FS			%				%FS		
RFT40-SA01	40	18.5	2	0.5	1	150	150	300	150	3	3	3
RFT60-HA01	60	18.5	2.5	1	1	150	150	300	150	3	3	3

Fz+ : Tensile force, Fz- : Compressive force . The capacity of compressive force is more capacity than the capacity of tensile force

## SENSOR DRAWING – RFT40-SA01

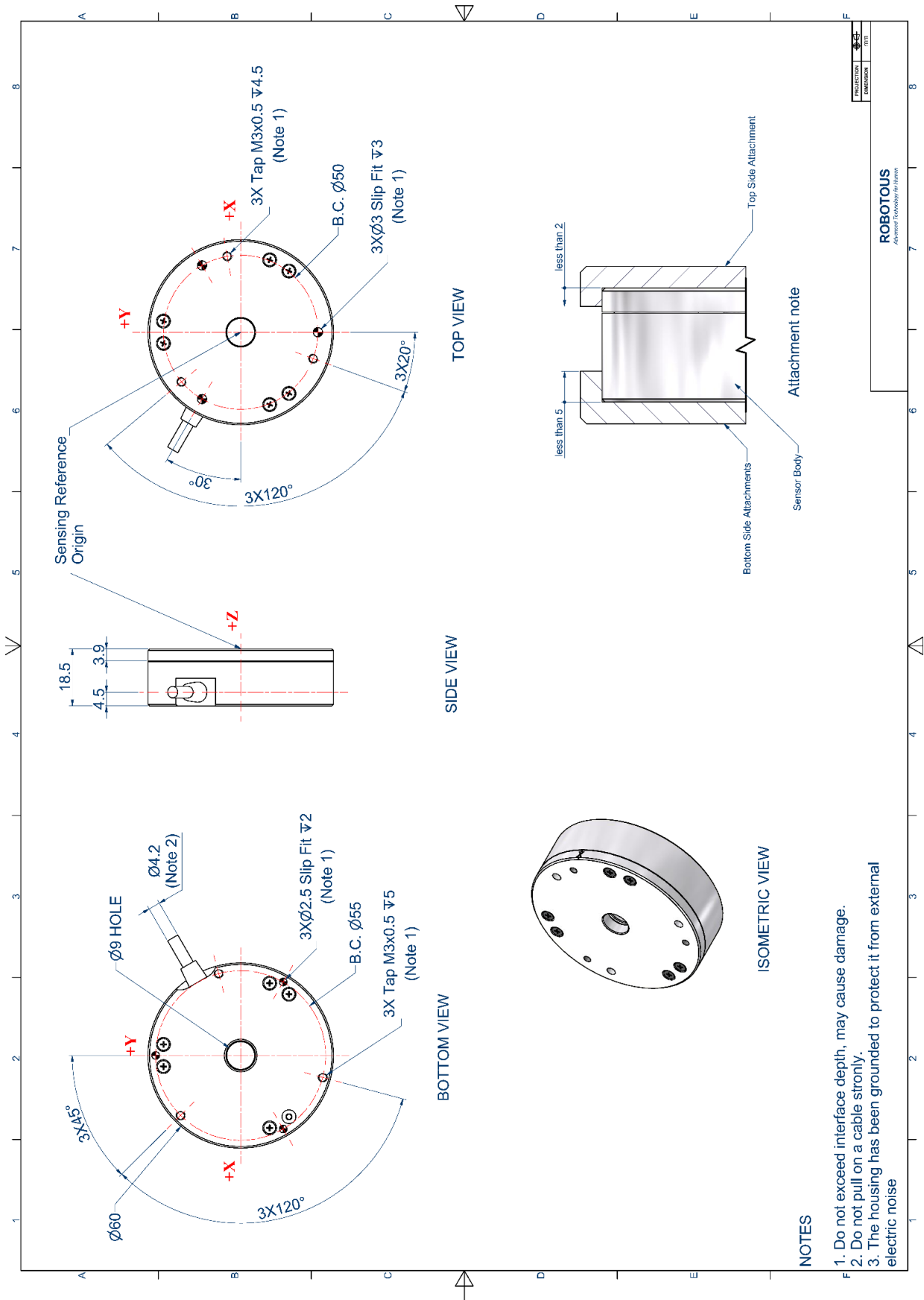



3D Modeling STEP File 

(Double-click or right-click on the clip-mark on the right side of "3D Modeling STEP File" to save STEP file.

If the file is not stored, try again after pressing the "Enable Editing")

SENSOR DRAWING – RFT60-HA01



3D Modeling STEP File 

(Double- click or right-click on the clip-mark on the right side of "3D Modeling STEP File" to save STEP file.

If the file is not stored, try again after pressing the "Enable Editing")

**ODERING INFORMATION**

**RFT**  -  -

**Sensor feature**

RFT40-SA01 = ø40mm, Solid core, Normal type  
RFT60-HA01 = ø60mm, Hallow core, Normal type

**Interface method**

- A = CAN
- B = RS-232 (Special Order)
- C = RS-422
- D = USB (Special Order)
- E = EtherCAT (Special Order)

#Special Order : extra lead time

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