ROBOTÓUS ··· 02

PRODUCT, 01

F/T Sensor

RFT series is a capacitive type 6-axes force/torque sensor with the lower price/performance ratio for the use with collaborate robots and industrial robots. The sensor has an innovative structure design and a robust calibration algorithm to achieve both of cost competitiveness and reliable performance. It provides users with various interface options for communication with their robots or devices. It was primarily designed to resist against an external impact or an excessive load. It is also temperature compensated for the use in various environments.



RFT80-6A02

Rated Capacity

400N(force) | 20Nm(torque)

Resolution

0.08N(force) | 0.004Nm(torque)

Overload Capacity

Temperature Compensation Embedded EtherCAT board

Dimension & Weight 80(D)x30(H)mm | 294g



RFT64-6A01

Rated Capacity

200N(force) | 10Nm(torque)

Resolution

0.08N(force) | 0.004Nm(torque)

Overload Capacity

Temperature Compensation

Embedded EtherCAT board Dimension & Weight

64(D)x30(H)mm | 175g



RFT60-HA01

Rated Capacity

200N(force) | 4.5Nm(torque)

Resolution

0.15N(force) | 0.005Nm(torque)

Overload Capacity

Dimension & Weight 60(D)x18.5(H)mm | 70g



RFT40-SA01

Rated Capacity

100N(force) | 2.5Nm(torque)

Resolution

0.2N(force) | 0.008Nm(torque)

Overload Capacity

Dimension & Weight 40(D)x18.5(H)mm | 60g



RFT80-6A01

Rated Capacity

400N(force) | 20Nm(torque)

Resolution

0.1N(force) | 0.005Nm(torque)

Overload Capacity

200%FS

Dimension & Weight 80(D)x22(H)mm | 226g



RFT64-SB01

Rated Capacity

200N(force) | 4.5Nm(torque)

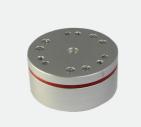
Resolution

0.15N(force) | 0.005Nm(torque)

Overload Capacity

Dimension & Weight

64(D)x20(H)mm | 140g



RFT44-SB01

Rated Capacity

100N(force) | 2.5Nm(torque)

Resolution

0.2N(force) | 0.008Nm(torque)

Overload Capacity

150%FS

Dust Resistant Seal
Dimension & Weight

44(D)x20(H)mm | 120g

RFT SERIES

Specification Table

Item		Unit	RFT40- SA01	RFT44- SB01	RFT60- HA01	RFT64- SB01	RFT64- 6A01	RFT80- 6A01	RFT80- 6A02	RFTEC-02
Dimension	Diameter	mm	40	44	60	64	64	80	80	120 x 75
	Height	mm	18.5	20	18.5	20	30	22	30	20
Data Rate	(maximum)	Hz	200	200	1,000	1,000	1,000	1,000	1,000	1,000
Load Capacity	Fx, Fy	N	100	100	150	150	200	400	400	"Robot cable (3 meters) RFTC-6AE-R3"
	Fz	N	150	150	200	200	200	400	400	
	Tx, Ty, Tz	Nm	2.5	2.5	4	4	10	20	20	
Resolution	Fx, Fy	mN	200	200	100	150	80	100	80	-
	Fz	mN	200	200	150	200	80	100	80	-
	Tx, Ty, Tz	mNm	8	8	5	5	4	5	4	-
Overload Capacity	Fx, Fy	%	150	150	150	150	300	150	300	-
	Fz+ (Fz-)	%	150 (300)	150 (300)	150 (300)	150 (300)	300 (300)	200 (400)	300 (300)	-
	Tx, Ty, Tz	%	150	150	150	150	300	200	300	-
Hysteresis	Fx, Fy	%FS	2	2.5	2.5	3	1	2.5	1	-
	Fz	%FS	0.5	1	1	2	1.5	1	1.5	-
	Tx, Ty, Tz	%FS	1	3	1	2	2	1	2	-
Cross Talk	Fx, Fy	%FS	3	3	3	3	3	3	3	-
	Fz	%FS	3	3	3	3	3	3	3	-
	Tx, Ty, Tz	%FS	3	3	3	3	3	3	3	-
Weight(w/o cable)		g	60	70	120	140	175	226	294	66
Power Requirement W, VDC		W, VDC	0.5W @5VDC (1.5W@5VDC for EtherCAT models)							2.5W @24VDC
Output Interface optional		CAN RS232 RS422 USB EtherCAT							EtherCAT	
Product Image										
Feature	Hollow Core ○ / Dust Seal ●		-	•	0	•	-	0	-	-
	Temerature Compensation		-	-	-	-	•	-	•	-
Embed EtherCAT			-	-	-	-	•	-	•	-