

SCHUNK			FT Delta	FT Gamma	FT-AXIA 80	OptoForce HEX-H	Robotiq FT 300	Wacoh DynPick 6A500-10	Sunrise M3314C	Weiss Robotics KMS40
Sensor Construction			Metal Body	Metal Body	Monolithic Metal Body	Elastomer	Multi-Body PCBA/Metal	Multi-Body PCBA/Metal	Metal Body	Metal Body
Sensing Technology			Silicon Strain Gage	Silicon Strain Gage	Silicon Strain Gage	Optical Reflection	Capacitive	Capacitive	Foil Strain Gages	Strain Gages
Measuring Range	Fx	N	660	130	500 (200)	200	300	500	660	120
	Fy	N	660	130	500 (200)	200	300	500	660	120
	Fz	N	1980	400	900 (360)	200	300	500	1980	120
Measuring Range	Tx	Nm	60	10	20 (8)	20	30	10	60	3
	Ty	Nm	60	10	20 (8)	20	30	10	60	3
	Tz	Nm	60	10	20 (8)	13	30	10	60	3
Effective Resolution	Fx	N	0,125	0,025	0,1	0,5	0,3	1,8	0,09	0,005
	Fy	N	0,125	0,025	0,1	0,5	0,3	1,8	0,09	0,005
	Fz	N	0,25	0,05	0,1	1,00	0,3	3,00	0,33	0,01
Effective Resolution	Tx	Nm	0,008	0,001	0,005	0,035	0,015	0,0045	0,008	0,001
	Ty	Nm	0,008	0,001	0,005	0,035	0,015	0,0045	0,008	0,001
	Tz	Nm	0,008	0,001	0,005	0,008	0,009	0,003	0,008	0,001
Accuracy		%FS	1,5%	1,5%	2,0%	7,0%	Not published	8,0%	No crosstalk adjust: 6% Crosstalk adjust: 3.5%	2,5%
Hyteresis		%FS	1,0%	1,0%	1,0%	2,0%	Not published	3,0%	1,0%	3,5%
Overload		%FS	410%	690%	500%	500%	500%	Not published	1000%	500%
Full-Scale Robot TCP Error	Fx	mm	0,08	0,01	0,02	0,60	Not published	0,33	Not published	Not published
	Fy	mm	0,08	0,01	0,02	0,60	Not published	0,33	Not published	Not published
	Fz	mm	0,08	0,02	0,02	0,25	Not published	0,06	Not published	Not published
	Mx	mm	0,81	0,45	0,40	17,45	Not published	1,19	Not published	Not published
	My	mm	0,63	0,45	0,40	17,45	Not published	1,19	Not published	Not published
	Mz	mm	0,40	0,31	0,21	30,52	Not published	0,73	Not published	Not published
Dimensions	Diameter	mm	94,5	75,4	82	70	75	80	104	66
	Height	mm	33,3	33,3	25,4	35	37,5	32,5	40	27
Weight		g	913	255	300	260	300	380	1250	215
IP Rating			IP20,60,65,68	IP20,60,65,68	IP64	IP65	Not published	IP65	IP65	IP40
	Voltage	VDC	11-25	11-25	12-30	4-24	4.5-28	5-24	15	24
	Power	W	6	6	1,5	0,8	2	200mA @5V 100mA @24V	Not published	1.9 typ.
Communication Options			Ethernet, EthernetIP, EtherCAT, ProfiNet, Serial, CAN, Analog, Wireless Ethernet	Ethernet, EthernetIP, EtherCAT, ProfiNet, Serial, CAN, Analog, Wireless Ethernet	Ethernet, EtherCAT, Serial, USB	Ethernet, EtherCAT, CAN, USB	Serial, USB	Ethernet, Serial, Analog, USB	Ethernet, CAN, Serial	Ethernet, CAN, Serial
Data Output Rate		Hz	7000	7000	8000	500	100	Not published	Not published	500
Price of Sensor		EUR	7.474,00 €	5.978,00 €	3.850,00 €	-	-	-	3.430,00 €* 	-
Price of UR KIT		EUR	-	-	4.015,00 €	3.505,00 €	3.810,00 €	-	-	3.690,00 €

Remarks:

Measurement Range - Values in parenthesis represent dual calibrations included on every sensor.

Effective Resolution defined as 3s noise unless effective/noise-free resolution is specified.

Accuracy is defined as the worst-case error the sensor would measure at constant temperature. Accuracy = Non-linearity + Crosstalk

Overload Values are % full-scale values at which point a single axis overload would cause perminate sensor performance issues or sensor failure (mechanical or electrical).

Robot TCP Error is defined as the distance in mm that a TCP 0.5m from the sensor face would be off due to sensor deflection.

*Price based on similar model