



MULTICOMPONENT F/T TRANSDUCERS

1. 2-component Torque Transducer M40 – 100/500



- *The torque measuring range ± 100 Nm
- *The axial force measuring range ± 500 N
- *Deviation of the actual output signal at the nominal torque 0.2%
- *Deviation of the actual output signal at the nominal axial force 0.3%
- *Accuracy :0.2%
- *Flange mounting Excitation voltage 12 – 30 V DC
- *Operating temperature range 0 ... +60 °C
- *Windows software in the scope of supply

2. 3-component Torque Transducer M30-3-6k

400 Oyster Point BLVD SUITE 129, SO. SANFRANCISCO U. S. A.

Phone : 001-650-5887-685 Fax:001-650-5883157

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- *The nominal range of the Fx, Fy forces -60,000 ...0 ... +60,000 N
- *The nominal range of the Fz force -120,000 ...0 ...+120,000 N
- *Linearity deviation including hysteresis, related to the nominal output value of the Fx, Fy < Fz forces 1.0%
- *Interference 5.0%
- *Temperature effect per 10 °C on the zero signal, related to the nominal output value 0.2%
- *Accuracy :0.2%
- *Excitation voltage 12 – 30 V DC
- *Operating temperature range 0 ... +60 °C
- *Windows software in the scope of supply

3. 6-component F/T Force transducer MS Series



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Description

Rigid 6-axis force/torque sensor for precision measuring in all six degrees of freedom

Field of application

Universally applicable in robotic applications such as haptics, medicine, grinding, testing, inserting, and research and development

Advantages – Your benefits

Many sizes

with different measuring ranges

The sensor measures in all 6 degrees of freedom

forces as well as moments

Rotation and translation of the coordinates system

in all three directions in space

Integrated temperature compensation

to ensure the defined measuring accuracy

Easy integration into the process

due to easy interface compatibility

Robust design

due to a higher overload range for a long service life ...

Features :

- *The nominal range of the F_x , F_y forces $-60,000 \dots 0 \dots +60,000$ N
- *The nominal range of the F_z force $-120,000 \dots 0 \dots +12,000$ N
- *The nominal range of the M_x , M_y , M_z forces $-6,000 \dots 0 \dots +6,000$ Nm
- *Linearity deviation including hysteresis, related to the nominal output value of the F_x , F_y , F_z forces 1.0%
- *Linearity deviation including hysteresis, related to the nominal output value of the M_x , M_y , M_z forces 1.0%
- *Interference 5.0%
- *Temperature effect per 10° C on the zero signal, related to the nominal output value 0.2%
- *Accuracy: 0.2%

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- *Excitation voltage 12 - 30 V DC
- *Output Signal : Digital and Analog
- *Operating temperature range 0 ... +60 ° C
- *Windows software in the scope of supply

6 Component F/T Force Sensor

M36 6-component (also 3-component) transducer. Non-rotating

Type	Nominal forces, torque and bending moments			Dimensions, mm
	Fx, Fy, N	Fz, N	Mx, My, Mz, Nm	
M36-200-400-20	200	400	20	Ø64x42, 4 holes M5
M36-250-500-25	250	500	25	
M36-300-600-30	300	600	30	
M36-400-800-40	400	800	40	Ø82x42, 8 holes M5
M36-500-1000-50	500	1000	50	
M36-600-1200-60	600	1200	60	
M36-800-1500-80	800	1500	80	
M36-1000-2000-100	1000	2000	100	Ø102x46, 8 holes M6
M36-1200-2500-120	1200	2500	120	
M36-1500-3000-150	1500	3000	150	
M36-2k-4k-200	2000	4000	200	Ø120x52, 8 holes M8
M36-2,5k-5k-250	2500	5000	250	
M36-3k-6k-300	3000	6000	300	
M36-4k-8k-400	4000	8000	400	Ø144x58, 8 holes M10
M36-5k-10k-500	5000	10000	500	
M36-6k-12k-600	6000	12000	600	
M36-8k-15k-800	8000	15000	800	
M36-10k-20k-1k	10 000	20 000	1000	Ø164x62, 12 holes M10
M36-12k-25k-1,2k	12 000	25 000	1200	
M36-15k-30k-1,5k	15 000	30 000	1500	
M36-20k-40k-2k	20 000	40 000	2000	Ø190x76, 12 holes M12
M36-25k-50k-2,5k	25 000	50 000	2500	
M36-30k-60k-3k	30 000	60 000	3000	
M36-40k-80k-4k	40 000	80 000	4000	Ø236x96, 12 holes M16
M36-50k-100k-5k	50 000	100 000	5000	
M36-60k-120k-6k	60 000	120 000	6000	

Scope of delivery: M36 transducer, decoder T48 (USB 2.0), USB-cable 0.6m length (connector assembly), signal cable 5m length (connector assembly), software

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