

## THE MEDUSA

Ultra-sensitive force torque sensor for limited space and payload

- ✓ Negligible temperature drift
- ✓ High impact robustness
- ✓ Noise level better than 0.01% of nominal range
- ✓ Up to 1000 Hz update rate
- ✓ Enhances your robot with the sense of touch
- ✓ Precise contact force detection
- Path recording through hand guiding, high tolerance assembly
- ✓ Plug & Play



# WE GIVE MACHINES THE SENSE OF TOUCH

**APPLICATIONS** 









Aerial manipulation

Robotic assisted surgery

Finishing

Precision Assembly

TECHNICAL SPECIFICATIONS

#### Serial

Game - Changing 6-Axis Force Torque Sensor for automation and robotics industry. Its USB or RS422 output can deliver up to 800 samples per second. It is integrated with electronics in a very compact, dust-proof and waterproof package. An innovative product that delivers high quality measurements at a hard to compete price point



200 N, 500 N, 5 Nm, 5 Nm 200 N, 500 N, 5 Nm, 5 Nm Range ( $F_{xy}$ ,  $F_z$ ,  $M_{xy}$ ,  $M_z$ ) Overload (Fxy, Fz, Mxy, Mz) 1000 N, 2000 N, 12 Nm, 15 Nm 1000 N, 2000 N, 12 Nm, 15 Nm 0.03 N, 0.01 N, 0.0004 Nm, 0.0001 Nm 0.03 N, 0.01 N, 0.0004 Nm, 0.0001 Nm Noise free resolution 110 g 110 g Weight 48 x 32 mm Size (DxL) 48 x 32 mm USB, RS422/RS485 CANopen over EtherCAT Communication 800 Hz 1000 Hz Sampling rate (max.) dustproof and waterproof dustproof and waterproof Ingress Protection ±2g, 4g, 8g, 16g, Accel

Gyro - ±250°/sec, ±500°/sec, ±1000°/sec, ±2000°/sec

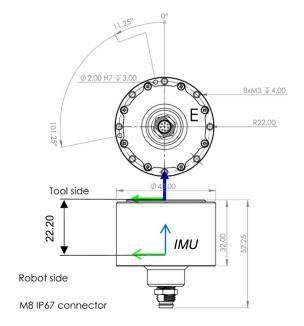


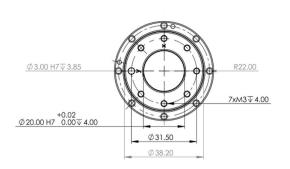
#### **OVERVIEW**

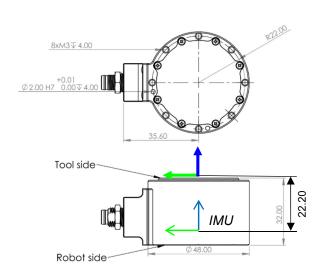
### Axial connector Side connector

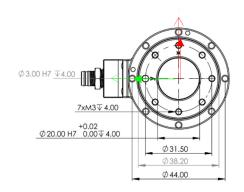


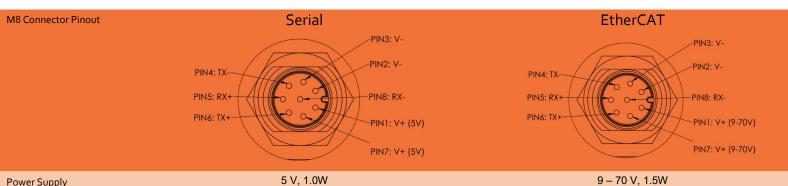
#### **MECHANICAL DIMENSIONS**











Power Supply 5 V, 1.0W 9-70 V, 1.5W Operating temperature 0-55 Celsius 0-55 Celsius

Communication USB, RS422 CANopen over EtherCAT