

Barrett Adapter Kit

BarrettHand Adapter Kit

Description:

Super compact, and lightweight, the BarrettHand is a multi-fingered, programmable grasper, with the **precision** and **dexterity** to secure and hold objects of varying shapes and sizes. Communicating by industry standard serial communications, or high speed CANbus, integration with any arm is fast and easy. Equipped with the **OptoForce OMD-20-SE-40N** force sensor at its fingertips, the BarrettHand immediately multiplies the **value** and **capability** of any arm requiring flexible automation.

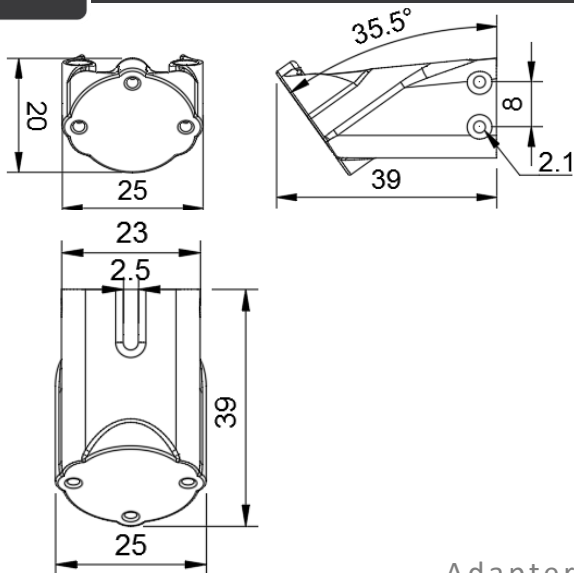
Benefits:

- Multi axis force measurement
- High resolution
- Highly adaptable product design
- Multimodal tactile sensing
- Simple installation
- Self contained
- Cost efficient solution
- Easy integration

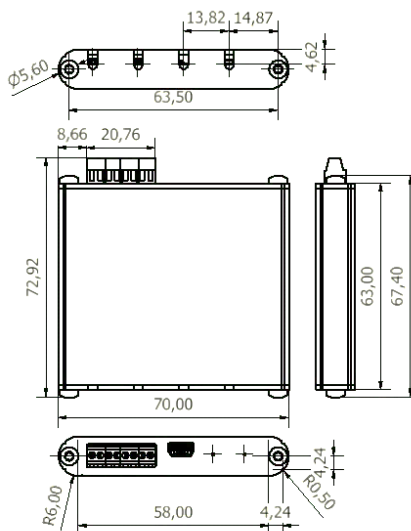
	Nominal Capacity	Typical Deformation
F _{xy}	± 20 N	± 1.5 mm
F _z – compression	40 N	2 mm

*: For F/T sensing kindly see our 6 axis datasheets

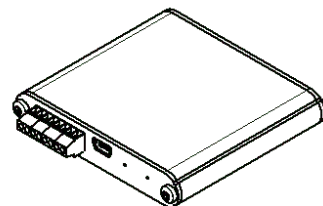




Adapter



DAQ (Non-Detachable)



SPECIFICATIONS OF THE OPTOFORCE SENSOR UNITS IN THE BARRETT HAND KIT

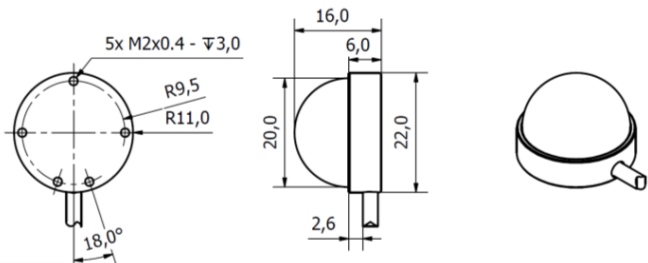
The OptoForce **OMD-20-SE-40N** force sensor as sensing element

The Barrett Hand adapter kit consists of 3 mobile fingers, with the **OMD-20-SE-40N** force sensors at their fingertips.



The **OMD-20-SE-40N** OptoForce sensor

Dimensions	Height x width x length	17 x 25 x 25 mm
	Fz Compression	Fxy
Nominal Capacity (N.C)	40 N	20 N
Single axis overload	200 %	200 %
Full scale nonlinearity	2 %	2 %
Resolution (counts at N.C)	16 000	10 000
Single axis deformation at N.C	1 mm	±1.5 mm
Crosstalk (typical)	< 5 %	
Hysteresis (measured on Fz axis, typical)	< 2 %	
Working temperature range		-40 °C - +80 °C
Power requirement	In continuous operation	10 mA



INTERFACE TYPES



USB	Maximum sampling frequency 1000 Hz
CAN	
UART	Supported systems: Windows, Linux