

# Allegro Adapter Kit

## Allegro Hand Adapter Kit

### Benefits:

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

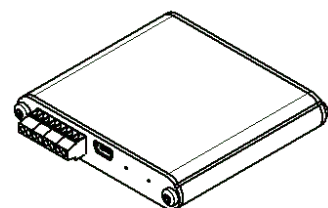
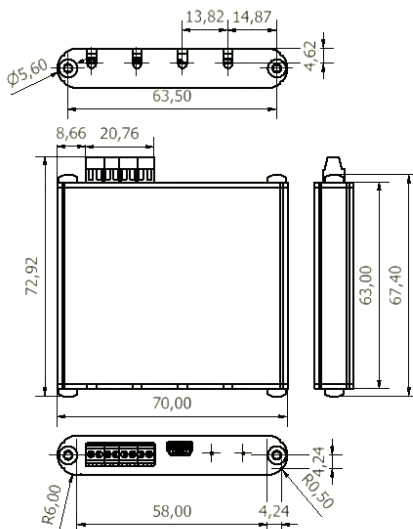
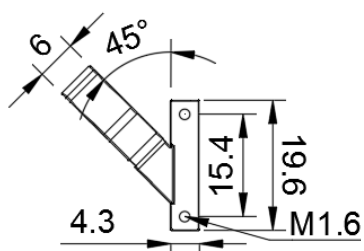
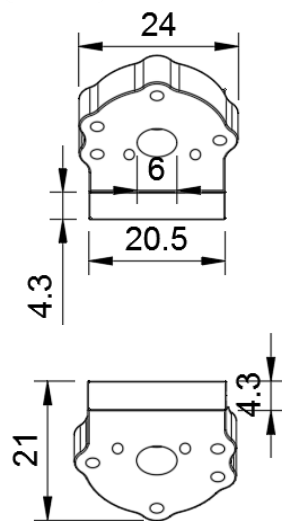
### Description:

Lightweight, portable and highly adaptive, the Allegro Hand is a low-cost, ready to use robotic hand capable of holding up to 1.5 kgs. The Allegro Hand, with four fingers, and sixteen independent current controlled joints, equipped with the **OptoForce OMD-20-SE-40N** force sensors at its fingertips is the perfect solution for any grasp and manipulation research.

	Nominal Capacity	Typical Deformation
<b>Fxy</b>	± 20 N	± 1.5 mm
<b>Fz – compression</b>	40 N	2 mm

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



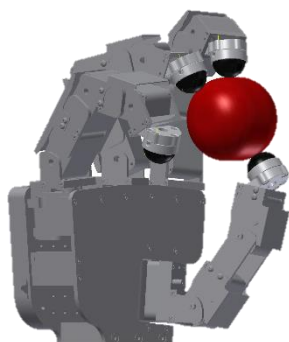


Adapter

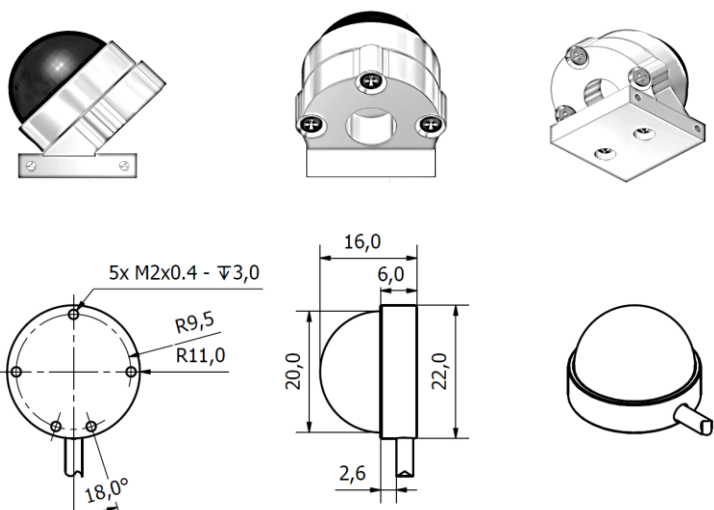
DAQ (Non-Detachable)



ALLEGRO HAND ADAPTER WITH OPTOFORCE SENSORS



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	2.5 mN	2 mN
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

