

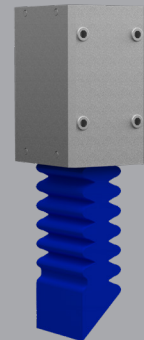
Flexible Smart Gripper™ Module

FSG-1

The Flexible Smart Gripper™ Module is a fully electrically actuated finger module that allows to build custom soft gripper.

Advantages:

- Multiple mounting options for versatile integration into custom gripper designs
- Fully electric for easy process control
- Patented finger design with a soft body, flexible in gripping direction and rigid in all other degrees of freedom:
 - allows to softly, but firmly grip delicate objects;
 - allows to handle objects of varying size, shape, and weight.
- Fast action for high throughput
- Mobile/wireless setup for quick setup
- The external controller allows
 - Programmable Open/Close Finger Positions
 - Force Control
 - Part Grip Confirmation



SPECIFICATIONS

Model	Number of Fingers	Payload	Finger Weight	Gripping Time	Maximum Current (Idle)	Maximum Current (Load)	Maximum Current (Instantaneous)
			kg (lb)	ms/mm (ms/in)	A	A	A
FSG-1	1	Configuration specific	0.27 (0.6)	50 / 50 (50 / 2)	0.1	2	3

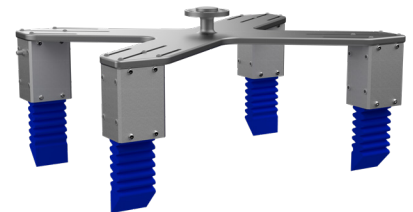
Rated Voltage: **15 VDC – 25 VDC**

Control Interface: **Digital I/Os**

Serial (ROS, socket) available on request

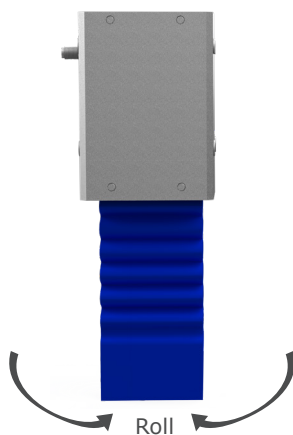
Operating Temperature: **5 - 60 °C (40 - 140 °F)**

Noise Emissions (Sound Pressure): **≤ 70 dB(A) in any direction**

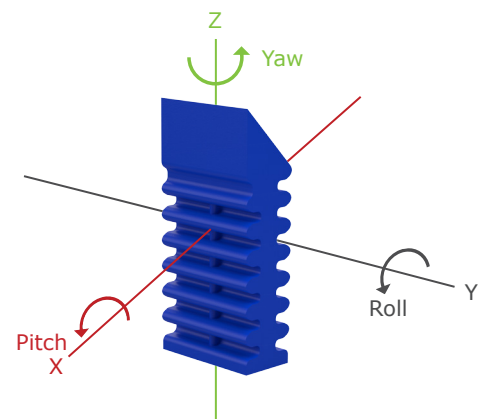


Example of configuration

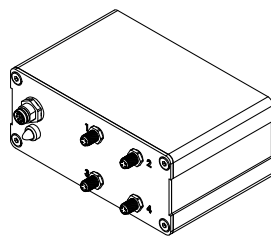
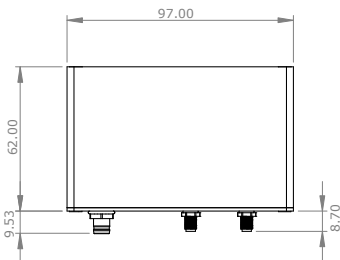
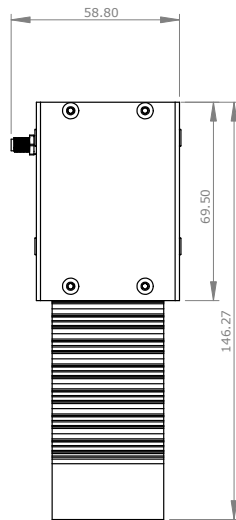
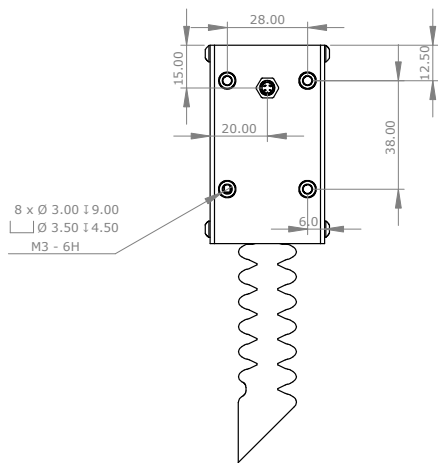
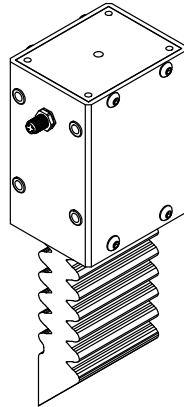
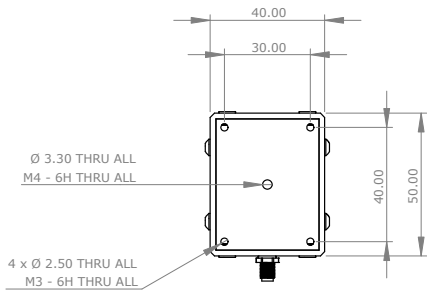
PATENTED FLEXIBLE FINGER



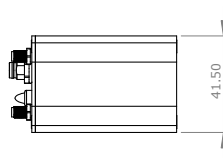
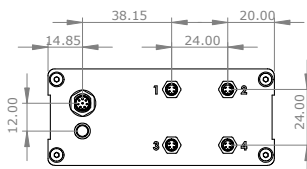
The Flexible Smart Modular Gripper™ (FSG) allows for the picking and placing of a multitude of shapes and sizes due to its patented, FDA approved silicone fingers, actuated by a fully electric system. The ability to rotate in the Roll degree of freedom, while keeping rigid in the Pitch and the Yaw degrees of freedom, allows for dependable, soft, and flexible gripping of delicate objects.



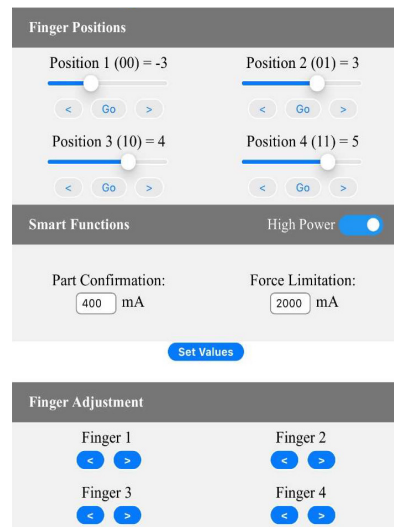
PRODUCT INFORMATION



Controller



* Dimensions are in millimeters.



The FSG can be easily programmed through a simple user interface that can be accessed with any Wi-Fi enabled device.



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