# Flexible Smart Gripper™ FSG-2, FSG-4, FSG-2e, and FSG-4e

The Flexible Smart Gripper $^{\text{TM}}$  (FSG) is a fully electrically actuated gripper with flexible, soft bodied fingers for handling objects of

#### Advantages:

- Programmable Open/Close Finger Position settings
   Patented, FDA compliant silicone fingers
   o Allows for soft, flexible gripping of delicate objects
   o Flexible in gripping direction and rigid in all other
   degrees of freedom
   Enhanced Intelligence version
   o Part Confirmation
   o Force Control
- Compatible with collaborative robots



### **SPECIFICATIONS**

Model	Number of Fingers	Rated Payload	Gripper Weight	Maximum Finger Opening at the Tip	Open/Close Speed	Maximum Current (Idle)	Maximum Current (Load)	Maximum Current (Instantaneous)
		kg (lb)	kg (lb)	mm(in)	mm/s (in/s)			
FSG-2	2	1.5 (3.3)	0.8 (1.8)	175 (6.9)	1450 (57)	0.03	2	3
FSG-4	4	1.5 (3.3)	1.3 (2.9)	195 (7.7)	1450 (57)	0.08	3	5
FSG-2e	2	1.5 (3.3)	0.8 (1.8)	175 (6.9)	1450 (57)	0.03	2	3
FSG-4e	4	1.5 (3.3)	1.3 (2.9)	195 (7.7)	1450 (57)	0.08	3	5

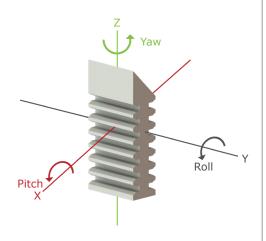
Rated Voltage: 15 VDC - 25 VDC

Operating Temperature: 5 - 60 °C (40 - 140 °F)
Noise Emissions (Sound Pressure): ≤ 70 dB(A) in any direction

### PATENTED FLEXIBLE FINGER



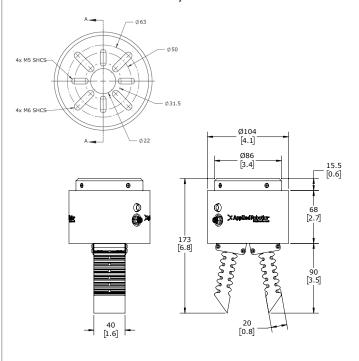
The Flexible Smart Gripper™ (FSG) allows for the picking and placing of a multitude of shapes and sizes due to its patented, FDA compliant silicone fingers, actuated by a fully electric system. The ability to rotate in the Roll degree of freedom, while keeping rigid in the Pitch and the Yaw degrees of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



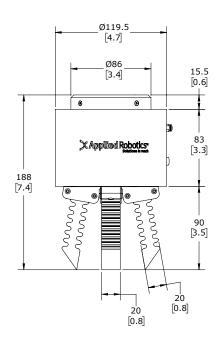


# PRODUCT INFORMATION

### FSG-2 / FSG-2e



FSG-4 / FSG-4e



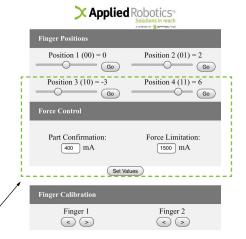
- \* Dimensions are in millimeters (inches).
  \*\* Interface Plate has bolt circle patterns according to ISO 9409-1 specification:
- 31.5mm, 40mm, 50mm, and 63mm.

# **ENHANCED INTELLIGENCE VERSION**



The Enhanced Intelligence version of the FSG provides additional finger positions for grip precision and efficiency, as well as force control, allowing the user to reliably handle delicate objects.

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



FSG-e Specific



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