

SmartGrippers™ 0030

Applied Robotics' SmartGripper™ 0030 is specifically designed for precision and application flexibility.



Featuring a universal operating platform and accurate positioning of robotic fingers, Applied Robotics' SmartGrippers™ meet your stringent requirements for precision and application flexibility, while bringing greater efficiencies to your application.

The SmartGripper™ is operated using a serial RS232/RS485 link. The user issues serial commands and parameters as required by the application. The SmartGripper™ replies serially with its address and "OK", or "Error" and error number.

A PC-based software tool assists in operation.

Interchangeable fingers are designed to hold or carry micro plates (in either landscape or portrait orientation), test tubes and other media. Fingers can be designed by the user, or provided by Applied Robotics, Inc.

The SmartGripper™ comes with an internal motion controller and precision motor. The SmartGripper™ is powered by 12Vdc at 0.65 Amps maximum.

Not exactly what your application requires? The Smart Gripper™ 0030 is fully scalable. Applied Robotics can design a solution that meets your particular application needs.

Benefits

- Accurate positioning of the fingers
- Variable and adjustable grip force
- No proprietary software or controllers required
- Safe, reliable --> will never drop anything
- Direct drive --> minimizes backlash
- RoHS Compliant

Features

- SG0030 has 30 mm of finger travel
- Repeatability 0.01 mm
- Variable and adjustable grip force 3 to 30 N
- Finger movements up to 175 mm/sec.
- Easy to integrate
- Four discrete 24 Vdc inputs for control
- PC-based configuration software for program development
- Relative encoder closed loop architecture
- Proven and tested under "real-life" conditions on articulated robots, along with precise lab bench monitoring for millions of cycles
- Single cable for power and communication
- Fail-safe brake 5 N
- Visual diagnostic LED indicators
- RS232/485 programming port

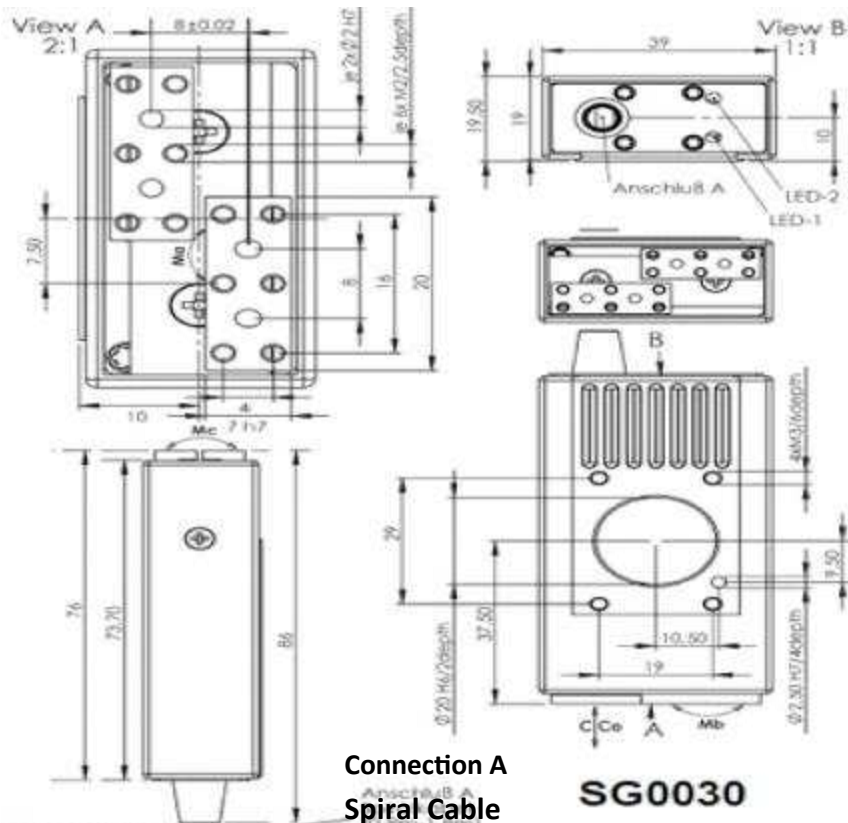
Accessories/Options

- Quick connect options for flexible automation
- Collision sensing options
- Finger sets available
- Simulation I/O box

*Not exactly what your application requires?
Applied Robotics can design a solution that meets your particular application

* For specific product applications, please contact our Tech Support staff at techsupport@appliedrobotics.com or via telephone at (518)384-1000 or +39 (0) 32 39 65 93 in Italy.

Engineering Data



Overall Dimension	86 x 39 x 19.5mm [3.5" x 1.5" x 0.8"]
Weight	0.21kg [0.5 lbs]
Stroke	30 mm [1.2"]
Mounting Surface	Rear Bracket
Velocity	(max) 175 mm/s
Force	(max) 30 N (min 3N)
Operating Temperature	-20 to 60°C [-4 to 140°F]
Max Power Consumption	8.4 W
Operating Voltage	12 Vdc
IP Rating	IP 30 (IP67 available upon request)
Rated Life	17,500,000 open/close cycles

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