LOAD LIMITER
LOW PROFILE - VARIABLE TRIP POINTS

Download 2 & 3D CAD Drawings:
www.AGI-AUTOMATION.com

DIMENSIONAL DRAWING

NOTE: Dimensions are metric.

LOADING INFORMATION

BREAKAWAY MOMENT

TO ORDER OR FOR MORE INFORMATION, PLEASE CALL (203) 459-8345, FAX (203) 452-5943
VISIT OUR WEBSITE AT: www.AGI-AUTOMATION.com

July 2004 - PATENTED - Made in the USA - “Innovation is the Secret”
The AGO Load Limiter is a dynamically variable load limiter that operates on an air pressure system. A regulated air supply provides positive, variable pressure to hold the load limiter rigid during normal operation. At impact, the air chamber seal is opened, while the shutdown signal is immediately sent to the system controller.

With the AGO Load Limiter, production and assembly lines run longer, expensive robots and tooling are protected and costly system repairs are drastically reduced.

**OPERATING PRINCIPLE**

**FEATURES AND BENEFITS**

- **Dynamically Variable Trip Points**
  Use air regulator to adjust the breakaway moment. Being able to program your collision sensor offers protection at all speeds of an operation. The breakaway threshold adjusts to match the working force ranges of your robot/application.

- **High Reliability**
  All AGO Load Limiter models feature a non-compressive, metal to metal seal which ensures reliable and consistent operation, giving you the permanent reliability you need and expect. Precise locating components are used to ensure that the Load Limiter repeats back to its original position with less than 0.001 inches.

- **Quick Reaction Time**
  At the moment of impact, the AGO air chamber seal is opened and a shutdown signal is instantly sent to the system controller. No reaction time is lost waiting for a deflection to occur - another advantage of an air pressure system.

- **Monitors Performance Readiness**
  AGO units can only be pressurized when reset in one unique position. The pressure switch monitor confirms that air pressure is present before resuming operation. The ready-to-perform signal from the pressure switch lets you know the AGO is reset in the proper position and pressurized. You will never receive a false readiness signal with an AGO unit.

- **Load Limiter Becomes Compliant**
  Non-resistive compliancy upon impact offers better tool protection. The AGO Load Limiter removes the force from your tool and robot wrist. Large rotational and axial compliance during a crash prevents damage.

**HOW TO ORDER**

*NOTE:* Pressure sensors are 3 AMP, 24 VDC and come with 5 meter cable. Aircraft snap acting type, UL/CSA rated to 42.4 VDC 3amps.

**CONTACT INFORMATION**

AGI AUTOMATION, INC.
171 Spring Hill Road, Trumbull, CT 06611
Tel: (203) 459-8345 • Fax: (203) 452-5943 • Email: amerigrip@aol.com
www.agi-automation.com