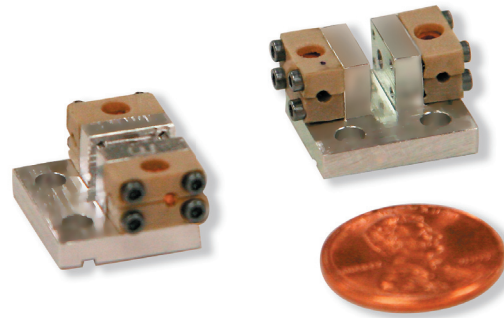


# UHV-Compatible Optical Limit Switch

**CONFIRM POSITIONING UNDER ULTRA-HIGH VACUUM**

- ➔ **Reliable UHV**  
optical limit switch
- ➔ **High accuracy**  
and repeatability
- ➔ **Signal conditioning**  
PC board
- ➔ **Feedthru and wiring**  
kits available
- ➔ **Wide operating**  
temperature range  
(-55°C - 125°C)
- ➔ **Non-powered bake**  
to 200°C



## Typical Applications

A wide range of uses on:

- ➔ **Vacuum or UHV**  
positioning stages

The Model MAOLS (MA optical limit switch) is available for use as a “HOME” or “position confirmed” optical limit switch based on proven Honeywell LED and optical transistor devices. Similar to the widely used Omron SX series photomicrosensors, but fabricated from UHV compatible materials and hermetically sealed components, these limit switches are turned on/off by a flag interrupting a narrow beam which provides a very reliable, non-mechanical repeatable switch. These can be used on linear stages, rotational stages, or any other device requiring a switch to confirm positioning.

SPECIFICATIONS	
Material	Al, Cu, peek
Vacuum Range	1 x 10 <sup>-11</sup> Torr
Electrical rating	NPN Silicon Phototransistor .75 mW max. power dissipation .15µsec response time
Dimensions	See drawing



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