

UHV Compatible Limit Switches

Ultra High Vacuum Compatible Limit Switches



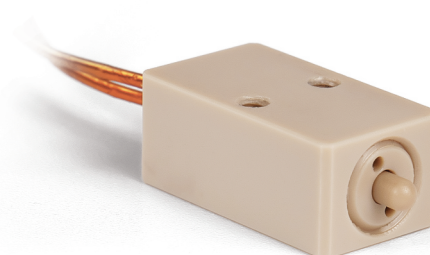
AML's VLS limit switches are designed for repeatable limit detection for in-vacuum motion systems. The switch is normally-closed (NC) and can be connected directly to an SMD3 or SMD4 stepper motor drive.

The VLS1 features a round threaded design for when ease of position adjustment is important. The VLS3 features a compact rectangular design for applications with space limitations.

VLS1



VLS3



FEATURES

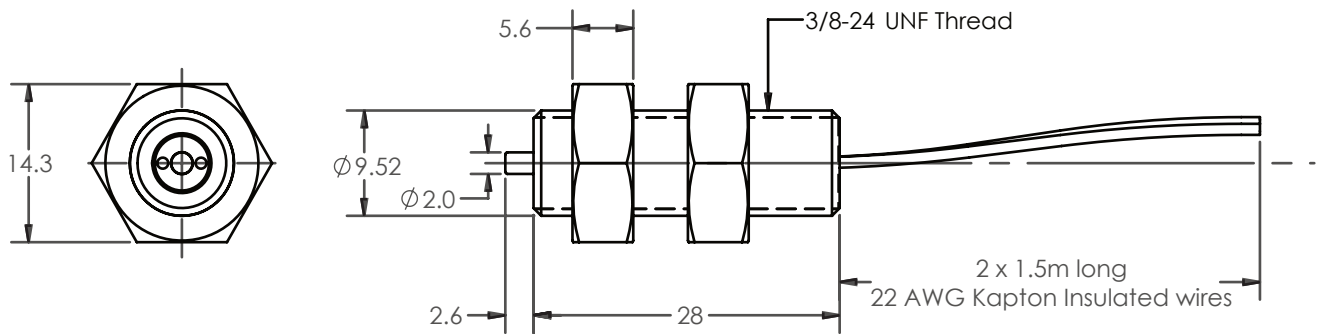
- UHV-compatible material construction
- Suitable for use to 1.3×10^{-10} mBar (1×10^{-10} Torr)
- High temperature - bakeable to 200 °C
- Minimum temperature: -65 °C
- 22 AWG polyimide insulated wires
- VLS1 - 3/8-24 UNF external thread with 2 matching nuts

SPECIFICATION

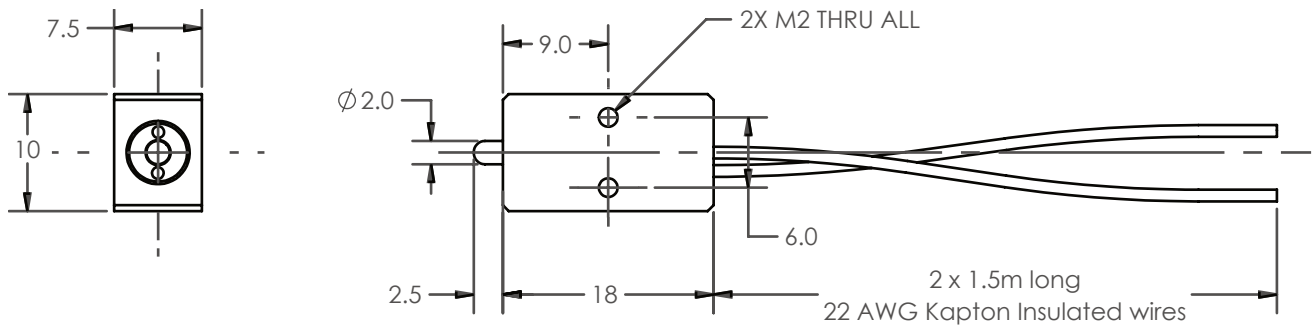
| Specification | VLS1 | VLS3 |
|---------------------------|----------------------------|------|
| Vacuum Environment | 1.3×10^{-10} mBar | |
| Repeatability | $\pm <1 \mu\text{m}$ | |
| Overtravel | 2 mm | |
| Minimum Actuation Force | 0.55 N | |
| Switching Current | 50 mA | |
| Switching Voltage | 30 Vdc | |
| Minimum Temperature | -65 °C | |
| Bakeout Temperature | 200 °C | |
| Mass (not including nuts) | 15 g | 11 g |

DIMENSIONS

VLS1



VLS3



ORDERING INFORMATION

| Order Code | |
|------------|---|
| VLS1 | UHV Compatible Limit Switch (Round) |
| VLS3 | UHV Compatible Limit Switch (Rectangular) |

| Related Products | |
|------------------|--|
| VSM17-X-xxx | Translation Stage, 5 μ m (xxx = travel in mm) |
| VSM17-Z-xxx | Vertical Translation Stage, 1 μ m (xxx = travel in mm) |
| VSM17-R-xxx | Rotation Stage (xxx steps per full rotation) |
| VSM17-G-xxx | Goniometer Stage (xxx mm to rotation centre) |



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AML pursues a policy of continuous improvement and reserves the right to make detail changes to specifications without consultation. E and OE.