

# UHV Compatible Limit Switches

Ultra High Vacuum Compatible Limit Switches



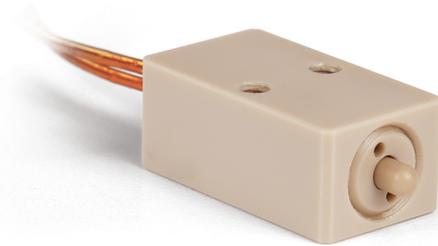
AML's VLS limit switches are designed for repeatable limit detection for in-vacuum motion systems. The switch is normally-closed (NC) and can be connected directly to an SMD3 or SMD4 stepper motor drive.

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

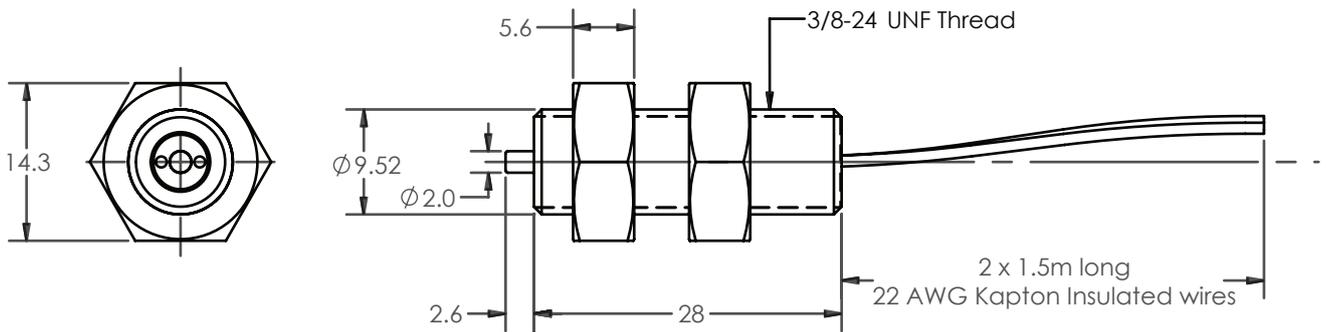
- UHV-compatible material construction
- Suitable for use to  $1.3 \times 10^{-10}$  mBar ( $1 \times 10^{-10}$  Torr)
- High temperature - bakeable to 200 °C
- Minimum temperature: -65 °C
- 22 AWG polyimide insulated wires
- VLS1 - 3/8-24 UNF external thread with 2 matching nuts

## SPECIFICATION

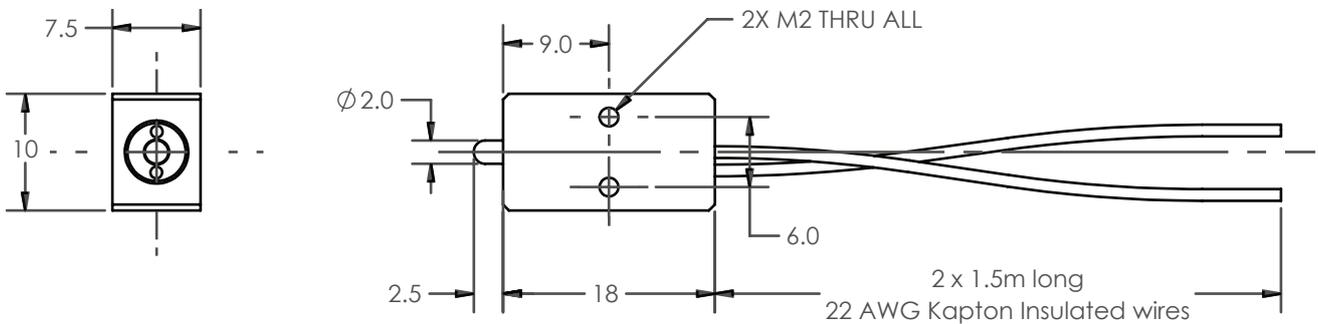
Specification	VLS1	VLS3
Vacuum Environment	1.3 x 10 <sup>-10</sup> mBar	
Repeatability	± <1 µm	
Overtravel	2 mm	
Minimum Actuation Force	0.55 N	
Switching Current	50 mA	
Switching Voltage	30 Vdc	
Minimum Temperature	-65 °C	
Bakeout Temperature	200 °C	
Mass (not including nuts)	15 g	11 g

## 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 $\mu$ m (xxx = travel in mm)
VSM17-Z-xxx	Vertical Translation Stage, 1 $\mu$ 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)



Arun Microelectronics Ltd.  
 Unit 2, Bury Mill Farm  
 Bury Gate  
 PULBOROUGH  
 RH20 1NN  
 United Kingdom

Tel: +44 (0)1903 884141  
 Email: sales@arunmicro.com

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