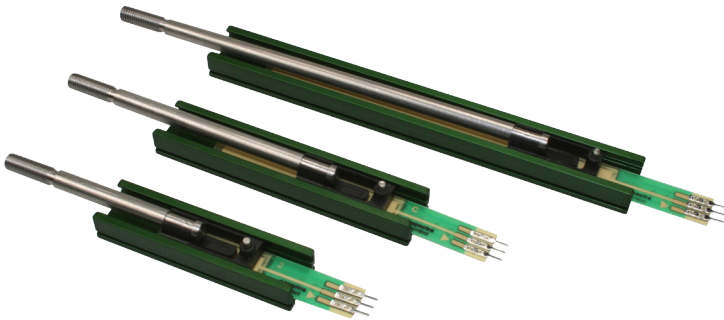


# Datasheet

## IPL Linear Position Sensor



- High Life Cycle
- High Temperature Capability
- IP65 Dust Proof, Water Proof (Intense Spray)
- Compact design

Variohm IPL linear sensors combine a robust and sealed membrane type linear potentiometer element in a convenient support housing that makes installation straightforward. The compact IPL series, available from 12.5 mm to 1000 mm stroke provides accurate linear measurement feedback for a wide range of applications.

### Specifications

#### Mechanical

Typical Life Cycle (membrane element)	>10 million
Actuation force	3.0 N average

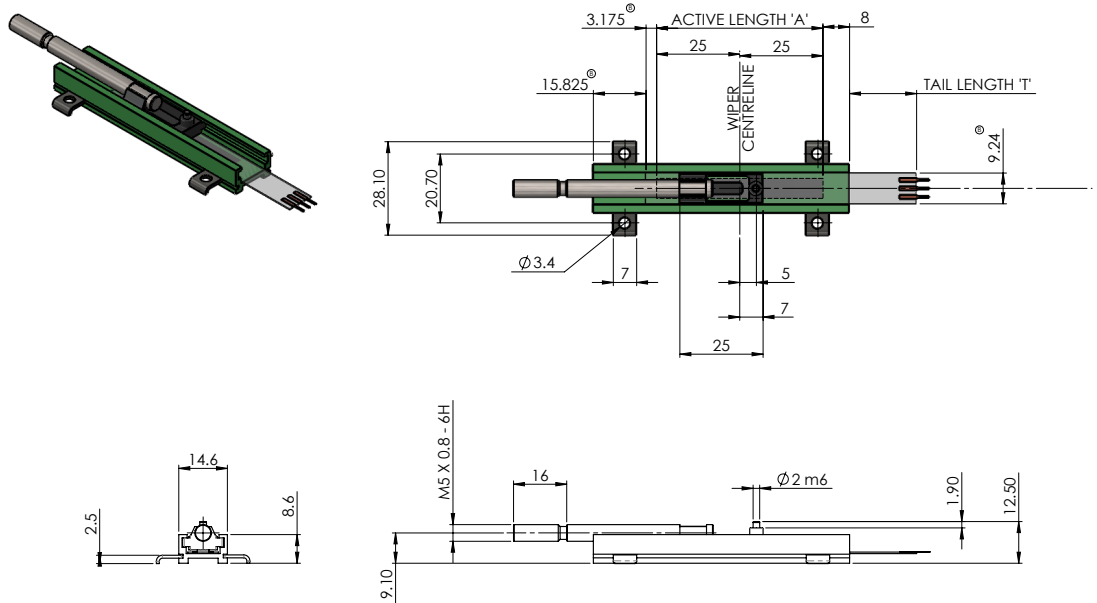
#### Environmental

Operating temperature	-40°C to +85°C
Humidity	No affect @ 95% RH, 24hrs 60°C
IP rating of active area	IP65

#### Electrical

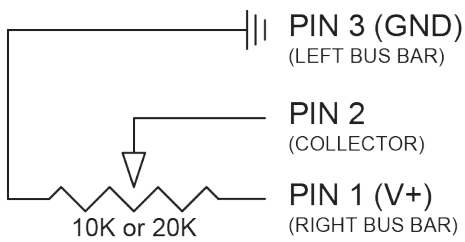
Resistance - Standard	10 kΩ (lengths >300 = 20 kΩ)
Resistance - Custom	5kΩ to 100 kΩ
Resistance Tolerance	±20%
Effective Electrical Travel	12.5 to 1200 mm
Linearity (Independent)	±3% (±1% on request)
Repeatability	+/- 0.5 mm
Power Rating (depending on size, varies with length and temperature)	1 Watt max. @ 25°C, 0.5 Watt recommended
Resolution	Analog output theoretically infinite; affected by variation of contact wiper surface area.
Dielectric Value	No affect @ 500VAC for 1 minute

Dimensions - IPL



Dimension A - Active Length in mm	25.00	50.00	100.00	200.00	500.00
Dimension T - Tail Length in mm	12.7 mm	24.9mm			

Wiring



Membrane cross section

