



- **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 housing is made of a durable anodised aluminium frame and a molded wiper. The

compact IPL series, available from 12.5 mm to 1000 mm stroke provides accurate linear measurement feedback for a wide range of applications. It is capable of operation in harsh environments with a temperature range of -40° C to + 85° C.

Specifications

Mechanical

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

Environmental

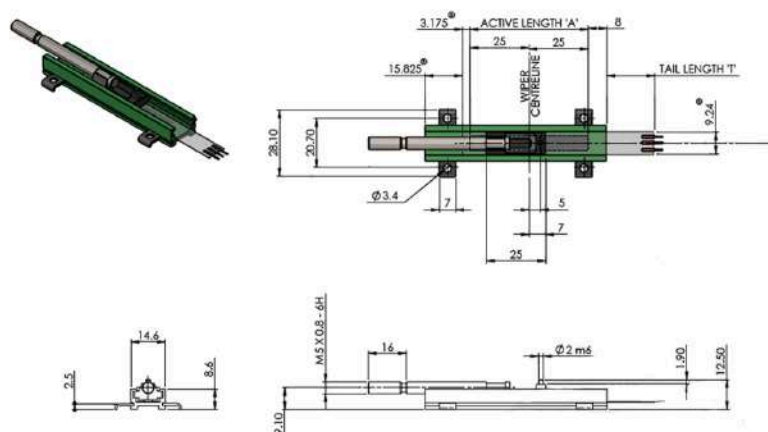
Operating temperature	-40°C to +85°C
Humidity	No affect @ 95% RH, 24hrs 60°C
IP rating of active area	IP65

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

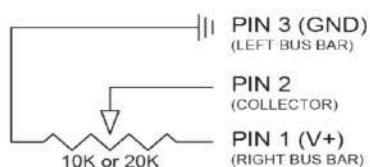


Dimensions - IPL

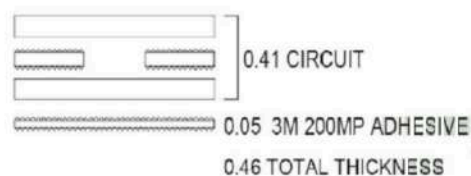


Dimension A - Active Length in mm	25.00	50.00	100.00	200.00	500.00
Dimension B - Shaft length	60	85	135	235	535
Dimension T - Tail Length in mm	12.7 mm	24.9mm			

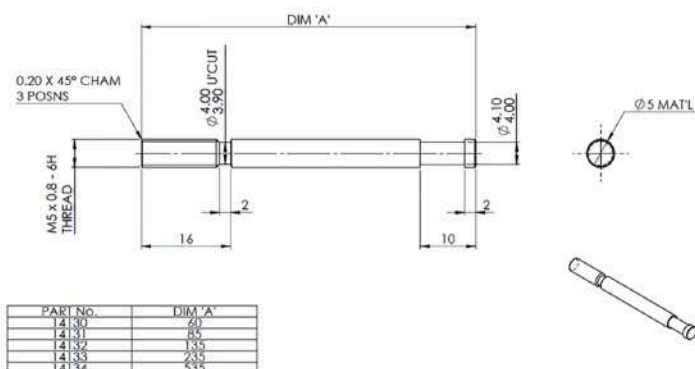
Wiring



Membrane cross section



Optional Accessoires: Shaft for IPL



Part Number	Order No
IPL-0025 60 mm Schaft	14130
IPL-0050 85 mm Schaft	14131
IPL-0100 135 mm Schaft	14132
IPL-0200 235 mm Schaft	14133
IPL-0500 535 mm Schaft	14134



Ordering information

(Please use the characters in the chart below to create your product code)

Sample Code IPL - 0050 - 103 - 3% - ST

Active length mm

0012	12.5
0025	25
0050	50
0100	100
0150	150
0170	170
0200	200
0300	300
0400	400
0500	500
0750	750
1000	1000

Resistance

103	10 K Ω (active length <300)
203	20 K Ω (active length >300)

Independant Linearity

3%	$\pm 3\%$
(±1% on request)	

Connectors

ST	Solder Tab
MP	Male Pins
RH	Receptacles w/Plain Housing
RL	Receptacles w/Latch Housing
RD	Receptacles w/Detent Housing



Crimpflex Solder Tab
(ST)



Crimpflex Short Pins
(MP)



Crimpflex female connector
strips with flat housing (RH)



Crimpflex female
connector with snab
housing (RL)



Crimpflex female
connector with housing &
locking bolt (RD)