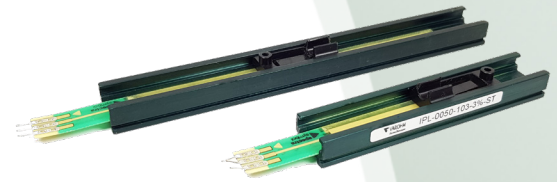


- High Life Cycle
- High Temperature Capability
- IP65 Dust Proof, Water Proof (Intense Spray)
- Compact design



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

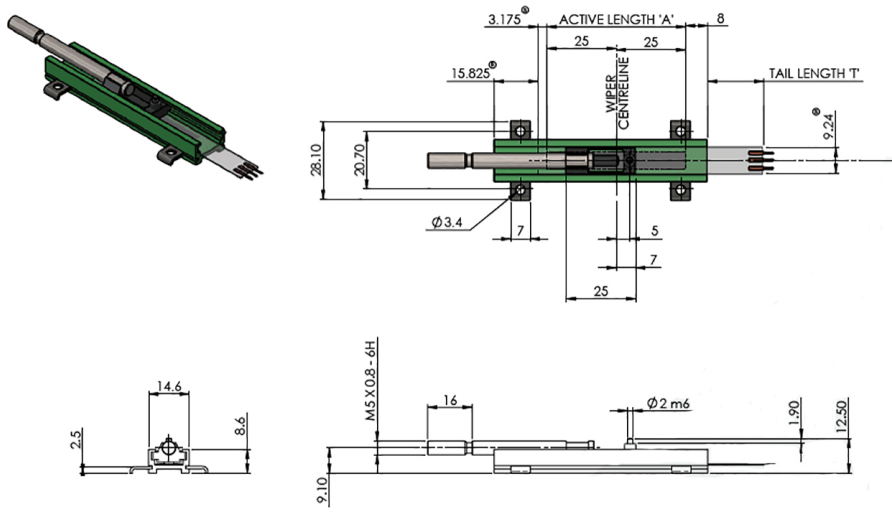
Mechanical

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

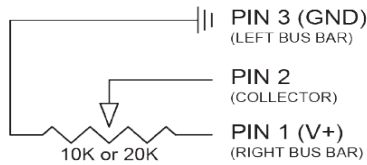
Resistance - Standard	10 kΩ (lengths >300 = 20 kΩ)
Resistance - Custom	5kΩ to 100 kΩ
Resistance Tolerance	±20%
Effective Electrical Travel	12.5 to 1200 mm
Linearity (Independent)	±3% (±1% on request)
Repeatability	+/- 0.5 mm
Power Rating (depending on size, varies with length and temperature)	1 Watt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

Dimensions - IPL

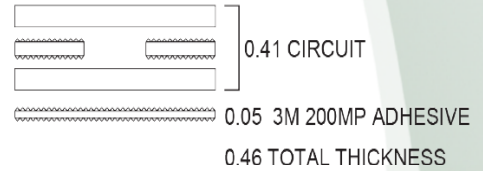


Dimension A - Active Length in mm	25.00	50.00	100.00	200.00	500.00
Dimension B - Shaft length	60	85	135	235	535
Dimension T - Tail Length in mm	12.7 mm	24.9mm			

Wiring



Membrane cross section

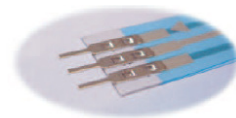


Ordering information

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

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

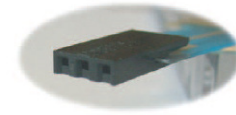
Series	Active Length mm	Resistance	Independent Linearity	Connectors
IPL	0012 = 12.5	Active Lengths < 300 103 = 10 KΩ Active Lengths > 300 203 = 20 KΩ	3% = ±3%* (±1% on request)	ST = Solder Tab* MP = Male Pins RH = Receptacles w/Plain Housing RL = Receptacles w/Latch Housing RD = Receptacles w/Detent Housing
	0025 = 25*			
	0050 = 50*			
	0100 = 100*			
	0150 = 150			
	0170 = 170			
	0200 = 200*			
	0300 = 300			
	0400 = 400			
	0500 = 500*			
0750 = 750				
1000 = 1000				



Crimpflex Solder Tab (ST)



Crimpflex Short Pins (MP)



Crimpflex female connector strips with flat housing (RH)



Crimpflex female connector with snap housing (RL)



Crimpflex female connector with housing and locking bolt (RD)

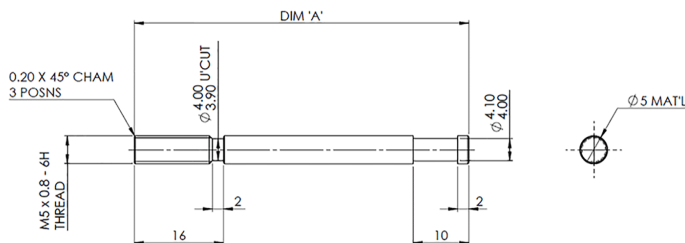
Mounting brackets are included

Shaft is optional (see table "Accessories")

*= Standard options (custom options available on request)

Accessories: Shaft for IPL

Shaft Detail



PART No.	DIM 'A'
14130	60
14131	85
14132	135
14133	235
14134	535

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