IPL Linear Position Sensor



EUROSENSOR

- 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.

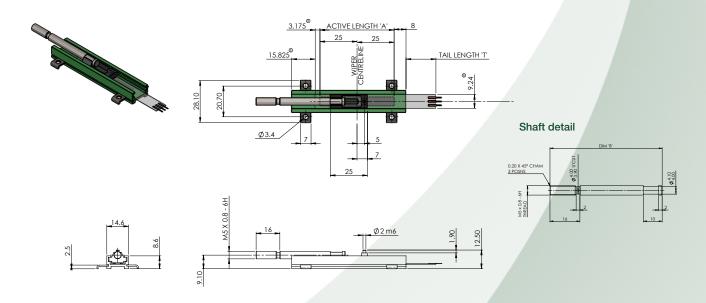


Specifications

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 B - Shaft length	60	85	135	235	535	
Dimension T - Tail Length in mm	12.7 mm	24.9mm				



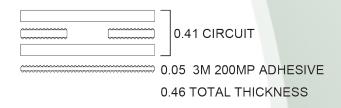
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Wiring

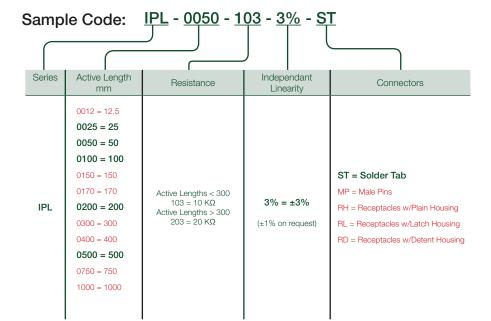
PIN 3 (GND) (LEFT BUS BAR) PIN 2 (COLLECTOR) PIN 1 (V+) (RIGHT BUS BAR)

Membrane cross section



Ordering information

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



Shaft and mounting brackets are included
Standard options in **bold type** - other available options
Custom options available on request



Crimpflex Solder Tab (ST)



Crimpflex Short Male Pins (MP)



Crimpflex Female Receptacles with a Plain Housing (RH)



Crimpflex Female Receptacles with a Latch Housing (RL)



Crimpflex Female Receptacles with a Detent Housing (RD)

