IPL Linear Position Sensor



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

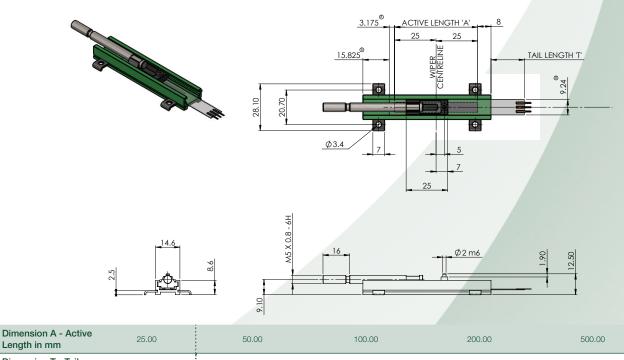
Compact design

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 25 mm to 500 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 | 25 to 500 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

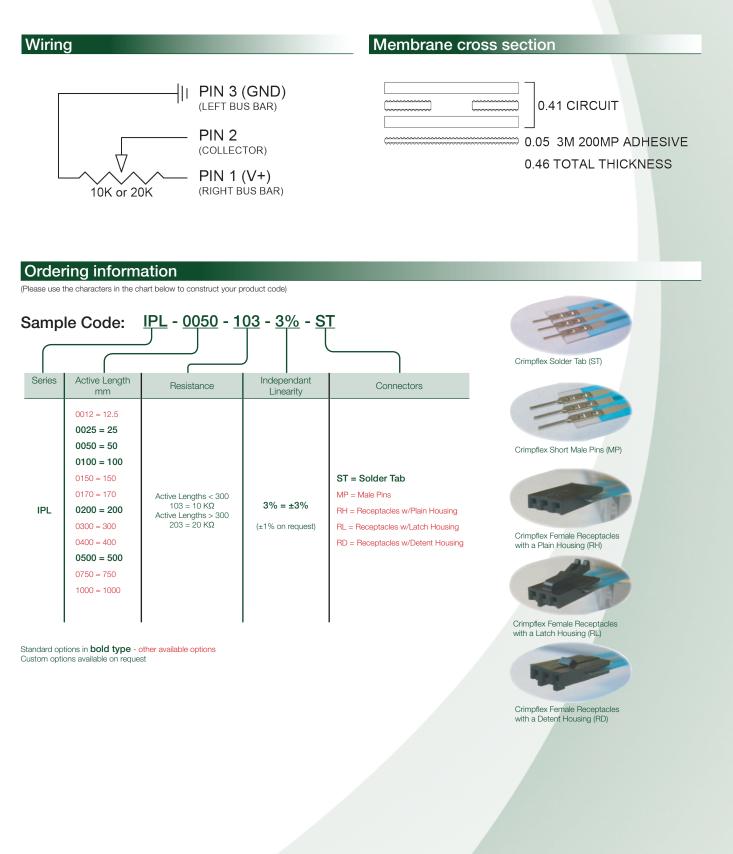


| Dimension I - Tail | 12.7 mm | 0.1.0mmm |
|--------------------|------------|----------|
| Length in mm | 12.7 11111 | 24.9mm |



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