## 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 | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Humidity | No affect @ $95 \% \mathrm{RH}, 24 \mathrm{hrs} 60^{\circ} \mathrm{C}$ |
| IP rating of active area | IP65 |


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

## 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 |  |  | 24.9 mm |  |

## 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

HOLDINGS

