

- 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 |

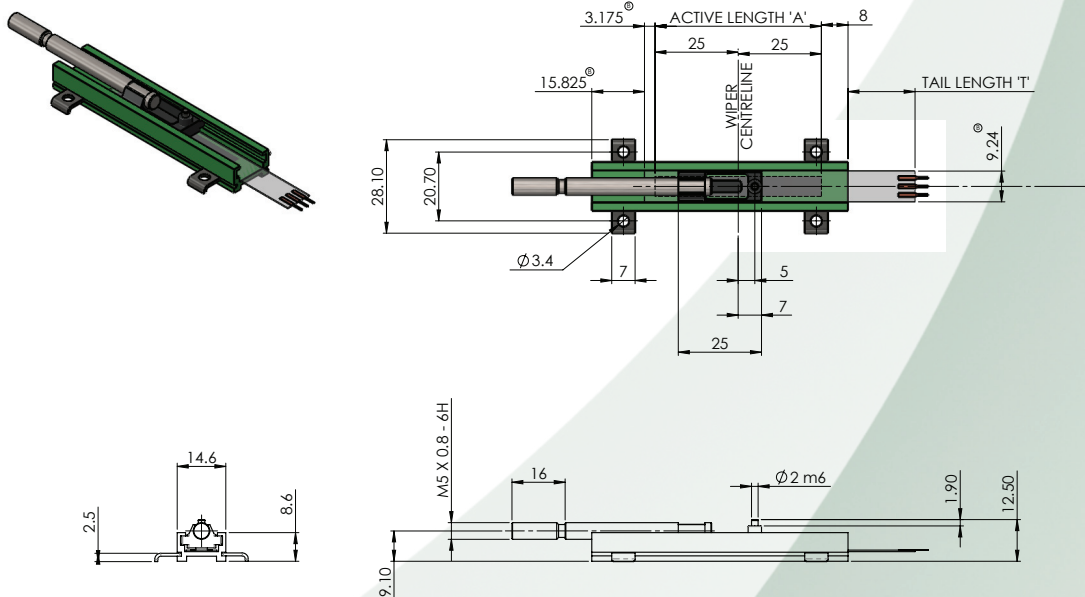
Environmental

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

Electrical

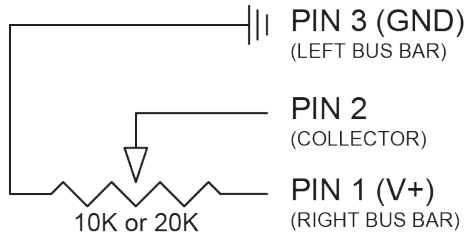
| | |
|--|---|
| Resistance - Standard | 10 kΩ (lengths >300 = 20 kΩ) |
| Resistance - Custom | 5kΩ to 100 kΩ |
| Resistance Tolerance | ±20% |
| Effective Electrical Travel | 25 to 500 mm |
| Linearity (Independent) | ±3% (±1% on request) |
| Repeatability | +/- 0.5 mm |
| Power Rating (depending on 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

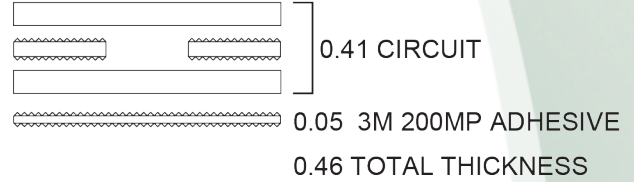


| | | | | | |
|-----------------------------------|---------|--------|--------|--------|--------|
| Dimension A - Active Length in mm | 25.00 | 50.00 | 100.00 | 200.00 | 500.00 |
| Dimension T - Tail Length in mm | 12.7 mm | 24.9mm | | | |

Wiring



Membrane cross section

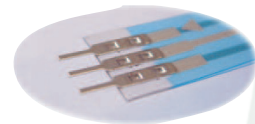


Ordering information

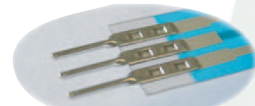
(Please use the characters in the chart below to construct your product code)

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

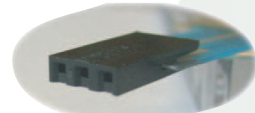
| Series | Active Length mm | Resistance | Independent Linearity | Connectors |
|-------------|------------------|--|------------------------------|---|
| IPL | 0012 = 12.5 | Active Lengths < 300 103 = 10 KΩ Active Lengths > 300 203 = 20 KΩ | 3% = ±3% (±1% on request) | ST = Solder Tab MP = Male Pins 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)



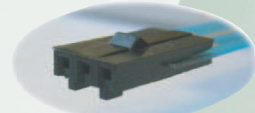
Crimpflex Short Male Pins (MP)



Crimpflex Female Receptacles with a Plain Housing (RH)



Crimpflex Female Receptacles with a Latch Housing (RL)



Crimpflex Female Receptacles with a Detent Housing (RD)

Standard options in **bold type** - other available options
Custom options available on request