OPH Series
Linear Motion Potentiometer

P3 AMERICA
PRECISION SENSORS & JOYSTICKS

- Measuring range 50 - 1000 mm
- Long mechanical life
- Excellent repeatability <0.01 mm
- Infinite resolution

Electrical Specifications*

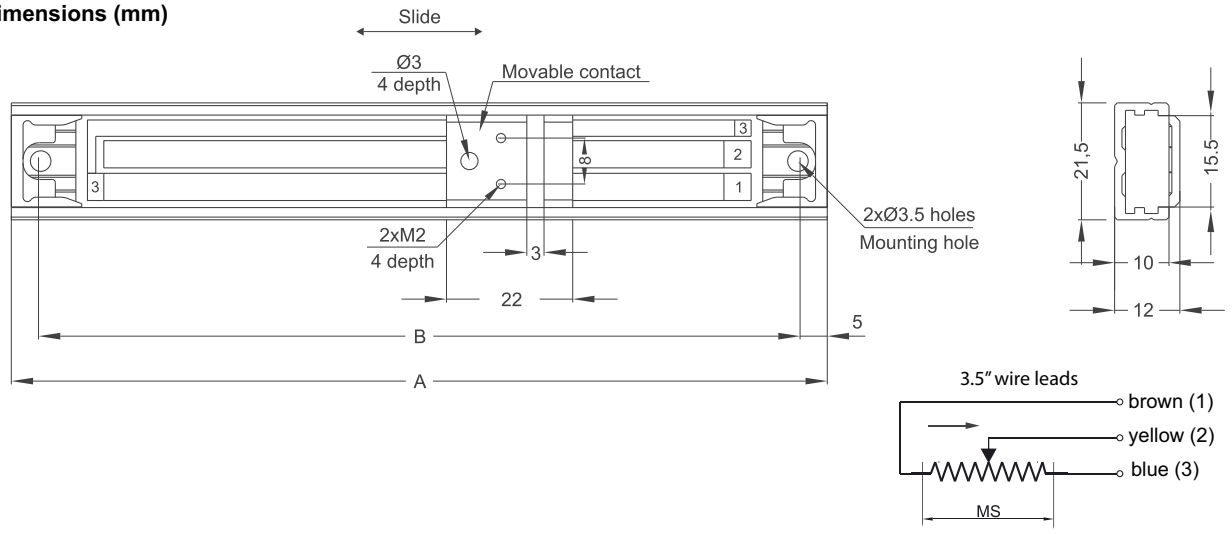
Linearity	±0.05% (100 mm and above) ±0.1% (<100 mm)
Resolution	Infinite
Resistance	5KΩ (50-600mm), 10KΩ (>600mm)
Resistance tolerance	±20%
Load resistance	100KΩ min.
Wiper current	<1μA
Max applied voltage	28VDC
Output smoothness	< 0.1% against applied voltage
Contact resistance variation	< 2% C.R.V.
Temperature coefficient	400 ppm/°C
Insulation resistance	>100MΩ @ 500VDC
Dielectric Strength	<100μA @ 500V~, 50Hz, 2s

Mechanical Specifications*

Measurement stroke	50 - 1000mm (see table below)
Repeatabilty	<0.01mm
Electrical connections	Cable 1m or Connector
Displacement speed	<5 m/s
Mechanical life	100 million movements
Case dimensions	21.5 mm X 10 mm
Case material	Anodized aluminum
Rod material	Stainless Steel
Shaft type	Shaftless - sliding cursor
Mechanical fixing	Mounting holes (2x ø3.5)
IP degree	IP40
Operating temperature	-20°C to +80°C
Storage temperature	-30°C to +90°C
Vibration	5~2000Hz, Amax = 0.75mm, amax = 20G
Shock	50 G, 6ms

* Customers should test and verify part performance in any given application. Specifications subject to change without notice

Dimensions (mm)



OPH (mm)	50	100	150	200	250	300	400	450	500	550	600	650	700	750	800	850	900	1000
A ± 1	100	150	200	250	300	350	450	500	550	600	650	700	750	800	850	900	950	1050
B ± 05	90	140	190	240	290	340	440	490	540	590	640	690	740	790	840	890	940	1040

P3 America, Inc.
San Diego, CA

858-277-1420 ph.
858-225-0439 fax

www.p3america.com
sales@p3america.com

OPH Series
Linear Motion Potentiometer

Ordering Code Guide

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)
OPH	**200**	**C**	**5K**
OPH	50 - 1000 mm	A : ±%0.5 (<75 mm) B : ±%0.2 (75-125 mm) C : ±%0.1 (130-200 mm) D : ±%0.05 (>200 mm)	5 kOhm : 50 - 600 mm 10 kOhm : 650 - 1000 mm

Examples:
OPH 25 A 5K
OPH 100 B 5K
OPH 600 D 10K

P3 America, Inc.
San Diego, CA

858-277-1420 ph.
858-225-0439 fax

www.p3america.com
sales@p3america.com