

## P25 Series PANEL TRACKERBALL

### Specifications

#### **Mechanical**

Weight	40gms
Ball	Polyester, 25mm, 1"
Tracking Force	8gms Nominal continuous – no seal (IP40)
Ball Load	100N Maximum downward pressure (20Kg) @ 20°C
Ball Rotation	Continuous and reversible – any direction
Ball Speed	100 RPM maximum
Housing Material	Polycarbonate black
Transducers	Photo-optical encoders with LED's
Mounting Position	Horizontal to 30° (non-sealed version)
Optional Sealing	N/A
Sealing Qualified @	25°C

#### **Electrical**

Standard Output Connector	140mm ribbon cable to JST 06NR-E6S
	6 way IDC 2.5mm connector
Mating Connector	JST 6 way 2.5mm header
Resolution	150 pulses per ball revolution (other options available upon request)
External Switch Inputs	N/A
Supply Voltage	5 V DC +/- 5%
Supply Current	Quadrature format 6ma typical

#### **Environmental**

Operating Temperature	-10°C to +40°C
Storage Temperature	-40°C to +85 °C
Humidity	30% min, 95% max, non-condensing
Vibration	5 G, 2-5Khz any plane
Shock	100Gs - duration 11ms
Lifetime	>6 million ball revolutions - non-sealed >2 million ball revolutions - seal life

#### **Electrical Connections**

Please refer to the option 'B' in the Product Ordering Code table.

Pin Number	0
	Quadrature Output
1	5 V
2	X2
3	X1
4	Y2
5	Y1
6	GND