

## K34 Series KEYBOARD TRACKERBALL

### Specifications

#### Mechanical

Weight	60gms
Ball	Thermoset Phenolic or Polyester, 34mm, 1 <sup>3</sup> / <sub>8</sub> "
Tracking Force	7gms Nominal continuous – no seal (IP40)
Ball Load	100N Maximum downward pressure (10Kg) @ 20°C
Ball Rotation	Continuous and reversible – any direction
Ball Speed	100 RPM maximum
Housing Material	ABS in grey
Transducers	Photo-optical encoders with LED's
Mounting Position	Horizontal to 30°

#### Electrical

Standard Output Connector	20mm wires to Molex 12 way connector 50-57-9412 or AMP 1-104257-1 equivalent
Mating Connector	Molex or AMP 12 way 2.54mm header
Resolution	183 pulses per ball revolution (other options available)
External Switch Inputs	4 Built in switches
Supply Voltage	5 V DC +/- 5%
Supply Current	Quadrature format 10ma typical

#### Environmental

Operating Temperature	-10°C to +55°C
Storage Temperature	-20°C to +60 °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

#### 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	S1
5	S2
6	LED
7	Y2
8	Y1
9	S3
10	S4
11	0V
12	NC