

P16 Series PANEL TRACKERBALL

Specifications

Mechanical

Weight	18gms
Ball	Coated Steel, 16mm, 0.8"
Tracking Force	8gms Nominal continuous – no seal (IP40)
Ball Load	10N Maximum downward pressure (1Kg) @ 20°C
Ball Rotation	Continuous and reversible – any direction
Ball Speed	300 RPM maximum
Housing Material	ABS Black
Transducers	Photo-optical encoders with LED's
Mounting Position	Horizontal to 0° to vertical 90°
Optional Sealing	N/A
Sealing Qualified @	N/A

Electrical

Standard Output Connector	JST 8 way FM Series for flex 1mm pitch
Optional Mating Connector	JST 8 way 1.5mm Header ZHR8
Resolution	800 +/- 30 counts per ball revolution (other options available upon request)
External Switch Inputs	L, M, R switch input via either JST 8-way connection token pull up on each switch conversion
Supply Voltage	5 V DC +/- 5%
Supply Current	Quadrature format 6ma typical PS/2 & USB - 12ma typical
Optional Backlight	N/A

Environmental

Operating Temperature	-10°C to +55°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	? - <i>nothing on the website</i>

Electrical Connections

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

	0	4	5
Pin Number	Quadrature Output	PS/2 Output	USB Output
1	5 V	5 V	5 V
2	X1 OUT	DATA	D-
3	X2 OUT	CLOCK	D+
4	Y1 OUT	SW R IN	SW R IN
5	Y2 OUT	SW L IN	SW L IN
6	OV	OV	OV
7	N.C.	SW M IN	SW M IN
8	N.C.	N.C.	N.C.