

R55 Series DESKTOP TRACKERBALL

Specifications

Mechanical

Weight	650gms
Ball	Thermoset Phenolic, 57mm, 2_"
Tracking Force	15gms Nominal continuous – no seal (IP40/NEMA)
Ball Load	200N Maximum downward pressure (20Kg) @ 20°C
Ball Rotation	Continuous and reversible – any direction
Ball Speed	200 RPM maximum
Housing Material	ABS
Transducers	Photo-optical encoders with LED's
Mounting Position	Horizontal to 30°

Electrical

Standard Output Connector	2m screened lead to PS/2 6 way Mini DIN
Converter	PS/2 to converter block to RS232
Resolution (Quadrature)	200 pulses per ball revolution (other options available upon request)
Switches	3 switch support - Left, Middle, Right
Supply Voltage	PS/2 - 5 V DC +/- 5%
	RS232 - +/- 12 V DC
Supply Current	Protocol format 16ma typical
Optional Backlight	+5 V DC, 100ma

Environmental

Operating Temperature	-5°C to +70°C
Storage Temperature	-10°C to +85 °C
Humidity	30% min, 95% max, non-condensing
Vibration	5 G, 2-5Khz any plane
Shock	50Gs - duration 11ms
Lifetime	>10 million ball revolutions

Configuration Options

DIP SWITCH CONFIGURATIONS

Switch	Function	Off	On
1	No function	-	-
2	Baud rate select	See table below	See table below
3	Baud rate select	See table below	See table below
4	Protocol mode	See table below	See table below
5	Middle button latch enable	Latch OFF	Latch ON
6	Cursor tracking rate enabled	Linear	Ballistic (Exponential)
7	Protocol mode	See table below	See table below
8	TTL output levels	Standard output	Output at TTL level

BAUD RATE CONFIGURATION

Baud Rate	Switch 2	Switch 3
1200	OFF	OFF
2400	OFF	ON
4800	ON	OFF
9600	ON	ON

R55 Series DESKTOP TRACKERBALL

PROTOCOL SELECT			
Protocol	Switch 4	Switch 7	Switch 8
Auto Detect - PS/2, Mouse Systems	OFF	OFF	OFF
SUN Systems	ON	OFF	ON
Auto Detect - Microsoft (RS232), PS/2	OFF	ON	OFF
Mouse Systems / SUN	ON	OFF	OFF
DEC	ON	ON	ON

Note: Protocol must only be changed with the device powered off.