Dip switch settings of trackballs

Ver. 1.5

All NSI trackball series and all NSI keyboards with integrated trackball are using trackball modules which are labelled as : Pxx-x**X**xxxx (f.i. P38-5**4**0420)
Oxx-x**X**xxxx
Lxx-x**X**xxxx
Xxx-x**X**xxxx

denotes ball diameter in mm

X : denotes the output protocol
0 = Phase quadrature output
4 = "PS/2 only" output
5 = "USB only" output
6 = "Combo PS/2 & USB" output
A = "RS232 only" output

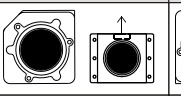
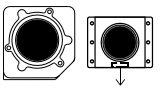
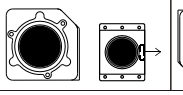
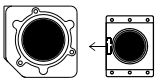
Current range (identified by the label XXX on the IC of the motherboard of the trackball, f.i. LC602A)

COMBO protocol types (PS/2 & USB) **Partnumber P50-x6xxxx , O50-x6xxxx , L50-x6xxxx and X50-x6xxxx**

Dip Switch		OFF	ON
1	Orientation 1	See Figure 1	
2	Orientation 2		
3	VX3 - Virtual 3 Axis	Feature disabled	Feature enabled
4	Smart feature	Feature disabled	Feature enabled
5	Tracking mode	Ballistic tracking	Linear tracking
6	N/A	N/A	N/A
7	N/A	N/A	N/A
8	N/A	N/A	N/A

X : Dip switch must be in this position

Orientation table

Y+ X+	Orientation 2 ON	Orientation 2 OFF
Orientation 1 ON		
Orientation 1 OFF		

VX3™

VX3 is patent protected facility that provides the same 2 modes of functionality as a scroll wheel on a 3-axis mouse.

Operation:

Press middle button once to latch scroll mode one (e.g. dynamic pan feature);
Press middle button again to latch scroll mode two (e.g. 3rd axis zoom feature);
Further middle button presses toggles between scroll mode one and scroll mode two;
Press either left or right buttons to cancel feature and resume normal X-Y cursor operation

Smart Switch

A patent protected button latch facility.

Press right button for 3 seconds or more to enable;
Once enabled, pressing any button for approximately 1 second latches that button on;
Press any button momentarily to de-latch;
Disabled with a further press of the right button for 3 seconds or more;

Tracking Mode

Ballistic Tracking: Intuitive tracking algorithm to provide increased cursor resolution when tracking fast whilst retaining the original resolution for tracking accurately at slow speeds.

Linear Tracking: No tracking algorithm. 620 counts per ball revolution maintained at all tracking speeds.

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Dip switch settings of trackballs

Ver. 1.5

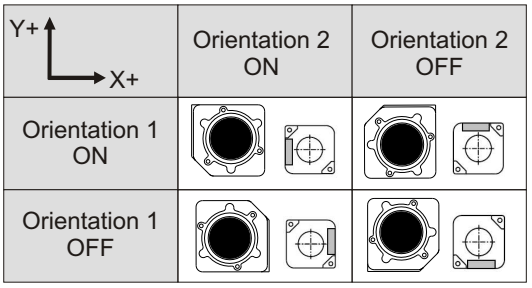
Former range (identified by the label XXXXX on the IC of the motherboard of the trackball, f.i. 199)

COMBO protocol types (PS/2 & USB) **Partnumber P50-x6xxxx, P75-x6xxxx, P25-x6xxxx and O50-x6xxxx**

Dip Switch		OFF	ON
1	Orientation 1	See orientation table	
2	Orientation 2		
3	VX3 - Virtual 3 Axis	Feature enabled	Feature disabled
4	Smart feature	Feature enabled	Feature disabled
	Double track.(P75)	Feature enabled	Feature disabled
5	Y inverted	Feature disabled	Feature enabled
6	-	X	-
7	-	X	-
8	-	X	-

X : Dip switch must be in this position

Orientation table

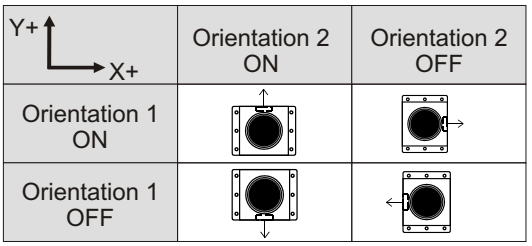


USB protocol types **Partnumber P38-x5xxxx, P38-x6xxxx**

Dip Switch	Function	OFF	ON
1	Orientation 1	See orientation table	
2	Orientation 2		
3	VX3 - Virtual 3 Axis	Feature enabled	Feature disabled
4	Smart feature	Feature enabled	Feature disabled

X : Dip switch must be in this position

Orientation table

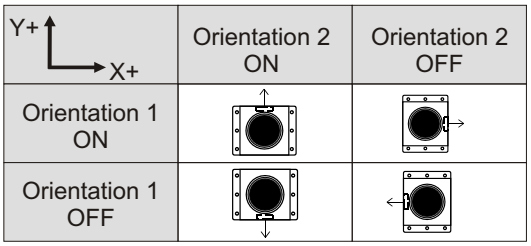


PS/2 protocol types **Partnumber P38-x4xxxx-5257**

Dip Switch	Function	OFF	ON
1	Orientation 1	See orientation table	
2	-	-	-
3	VX3 - Virtual 3 Axis	Feature enabled	Feature disabled
4	Orientation 2	See orientation table	

X : Dip switch must be in this position

Orientation table



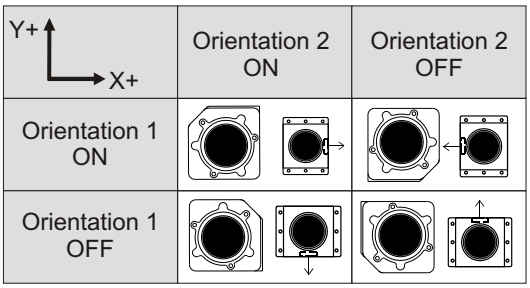
SERIAL protocol types **Partnumber P38-xAxxxx and P50-xAxxxx**

1	Protocol mode	Microsoft RS232	Mouse systems
2	Orientation 1	See orientation table	
3	Orientation 2		
4	Tracking mode	Ballistic	Lineair
5	Virtual 3 axis*	Feature Disabled	Feature enabled
	Baud rate selection*	1200	9600
6	Smart feature	Feature Disabled	Feature enabled
7	-	X	-
8	Output level	Std. RS232	TTL

X : Dip switch must be in this position

* Microsoft mode: VX3
Mouse system: Baud rate selection

Orientation table



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