

Pin connections of trackballs

Ver. 1.3

All NSI trackball series and all NSI keyboards with integrated mechanical trackball are using trackball modules which are labelled as :

Pxx-xXxxxx (f.i. P38-560420)



denotes ball diameter in mm
X : denotes the output protocol
 0 = Phase quadrature output
 6 = "Combo PS/2 & USB" output
 A = "RS232 only" output

X=0	
Pin Quad	Connector 1 Quad versions
Trackball Module Partnumber	P38-x0xxxx P50-x0xxxx P75-x0xxxx
1	X1
2	X2
3	Y1
4	Y2
5	-
6	-
7	5V DC
8	-
9	-
10	0V

X=6	
Pin Combo	Connector 1 Combo versions
Trackball Module Partnumber	P50-x6xxxx P75-x6xxxx
1	(X1)
2	(X2)
3	(Y1)
4	(Y2)
5	-
6	-
7	5V DC
8	Data (/D-)
9	Clock (/D+)
10	0V

X=A	
Pin RS232 (*)	Connector 1 RS232 versions
Trackball Module Partnumber	P38-xAxxxx P50-xAxxxx
1	TX
2	RX
3	DTR
4	RTS
5	GND
6	-
7	DSR
8	-
9	-
10	-

X=0	
Pin Quad	Connector 1 Quad versions
Trackball Module Partnumber	P25-x0xxxx
1	X1
2	X2
3	5V DC
4	Y1
5	Y2
6	0V

X=6	
Pin Combo	Connector 1 Combo versions
Trackball Module Partnumber	P25-x6xxxx
1	-
2	-
3	5V DC
4	Data (/D-)
5	Clock (/D+)
6	0V

Pin Switch	Connector 2 Switch input	Colour code switch cable
Trackball Module Partnumber	All protocol types	IC040035
1	Left Button	Red
2	Middle Button	Orange
3	Right button	White
4	GND (common)	Black

Connector 1 = 10 pin JST PH series 2,0 mm pitch
 Connector 2 = 4 pin JST PH series 2,0 mm pitch



NSI bvba, Haakstraat 1A, B-3740 Bilzen, Belgium
 Tel. : ++32 (0) 89 51 90 00 Website : www.nsi-be.com
 Fax : ++32 (0) 89 51 90 09 E-mail : info@nsi-be.com

The company reserves the right to alter without prior knowledge the specification or design of any standard product or service.

www.nsi-be.com/support.htm