

Pin connections of trackballs

Ver. 1.0

All NSI trackball series and all NSI keyboards with integrated laser optical (L-range) or optical (O-range) trackball are using trackball modules which are labelled as :

LXX-xXxxxx (f.i. L38-76021D) & **OXX-xXxxxx** (f.i. O50-76021D)

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

X=0	
Pin Quad	Connector 1 Quad versions
Trackball Module Partnumber	O38-x0xxxx O50-x0xxxx
1	X1
2	X2
3	Y1
4	Y2
5	EARTH
6	EARTH
7	5V DC
8	-
9	-
10	0V

X=6	
Pin Combo	Connector 1 Combo versions
Trackball Module Partnumber	O38-x6xxxx O50-x6xxxx
1	(X1)
2	(X2)
3	(Y1)
4	(Y2)
5	EARTH
6	EARTH
7	5V DC
8	Data (/D-)
9	Clock (/D+)
10	0V

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Trackball Module Partnumber	L38-x0xxxx L50-x0xxxx
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6	EARTH
7	5V DC
8	Data (/D-)
9	Clock (/D+)
10	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



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