



• 50 mm steel ball

• IP54 sealing

50 MM STEEL OEM TRACKBALLMODULE

The GS50 series are ruggedised professional trackballs. The ball and the trim are made of quality stainless steel giving the unit a stylish all metal look. The double-sided seal ring provides a sealing to IP54. Stainless steel shafts and bearings ensure a solid and precise pointer control.

GENERAL TECHNICAL SPECIFICATIONS

Sealing : IP54

Casing material : ABS/Polycarbonate
Ball & trim material : Stainless steel
Ball diameter : 50,8 mm
Weight : 700 grams
Seal material : PTFE composite

Shaft diameter : 9,5 mm

Tracking force : 60 grams nominal

Mounting angle : Max. 60° to horizontal plane

Lifetime - Ball revolutions : > 2 million

Supply voltage (quadrature) : 5 Vdc +/- 5%

Supply current (quadrature) : 6 mA typ

Storage temperature : -25°C to +80°C

Operating temperature :-10°C to +60°C

Relative humidity : 95% non-condensing

Vibration : 5G, 5-2KHz any plane

CONNECTIVITY

The GS50-4502 is PS/2 compatible. The GS50-4602 can be plugged into any USB port or hub. Both types are supplied with 1,6m long shielded straight cables and external switch cables.

The GS50-4002 has phase quadrature output: X1(Y1) leads X2(Y2) when motion of ball in positive X(Y) direction. No device driver is supplied with the unit. Please use standard available drivers in your operating system. It is supplied with a 10-way connection cable of 35 cm.

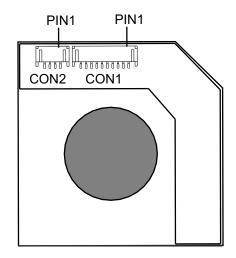
* Due to the increasing differences of the mouse port specifications of the various PC manufacturers, we do recommend that this unit should be tested on the final PC configuration and operating system prior to installing it in series.

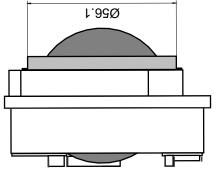
ORDER INFO

OUTPUT	ORDER NUMBER	Consisting of :
Quadrature	GS50-4002	P50-50028C Trackball module only IC101035 : 35 cm interconnection cable to CON 1
PS/2	GS50-4502	P50-56028C : Trackball module only OC6010160 : 1,6 m shielded PS/2 cable with 6 pin mini DIN plug IC040035 : 35 cm switch cable (4 wires) to CON2
USB	GS50-4602	P50-56028C : Trackball module only OC5010160 : 1,6 m shielded cable with USB type A plug IC040035 : 35 cm switch cable (4 wires) to CON2

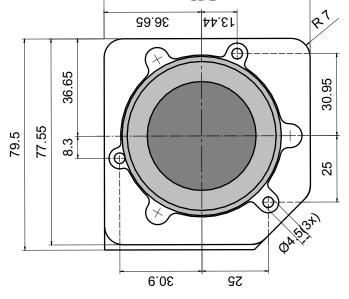


DIMENSIONAL DRAWING





35.77



Dip switches: leave off, for factory use only. 10 way connector (CON1)

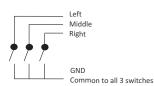
Pi	n	Quadrature	PS/2 or USB
1		X1	X1
2		X2	X2
3		Y1	Y1
4		Y2	Y2
5		-	-
6		-	-
7		Vcc	Vcc
8		-	Data/D-
9		-	CLK/D+
10)	GND	GND

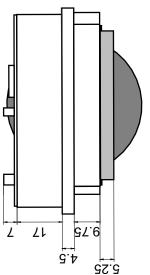
Connector type : JST PH Series 2,0mm pitch. $\label{eq:Mating} \textit{Mating connector}: \textit{JST KR Series 2,0mm pitch}.$

4 way connector (CON2) for PS/2 & USB only

Switch input
Left Switch
Middle Switch
Right Switch
GND

Connector type : JST PH Series 2,0mm pitch. Mating connector : JST KR Series 2,0mm pitch.





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

Dim in mm.