

25 mm TRACKBALL

COMPACT RUGGED TRACKBALL FOR REAR PANEL MOUNTING

Sealing IP65 (static); PS/2 & USB or phase quadrature output

The GK25 features a phenolic ball with metal core, stainless steel shafts and bearings for a smooth and precise cursor control. The PTFE seal ring ensures a IP65 static sealing grade. The unit has been designed to be back of panel mounted as part of OEM keyboards and consoles with restricted mounting space.



GK25-XXXX

• SPECIFICATIONS

Sealing	IP65 (static)	Tracking force	50 grams nominal
Casing material	Polycarbonate	Mounting angle	Max. 90° to horizontal plane
Top plate material	Polycarbonate	Lifetime - Ball revolutions	>= 2 million
Ball material	Phenolic resin with metal core	Supply voltage (GK25-4002)	5 Vdc +/- 5%
Ball colour	Black	Supply current (GK25-4002)	6 mA Typ
Ball diameter	25 mm	Storage temperature	-25°C to +80°C
Weight	80 grams	Operating temperature	0°C to +55°C
Seal material	PTFE Composite	Relative humidity	95% non-condensing
Shaft diameter	4,5 mm	Vibration	5G, 5-2KHz any plane

• CONNECTIVITY

The **GK25-5502** is **PS/2** compatible. The **GK25-5602** 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 **GK25-5002** has **phase quadrature output**: X1(Y1) leads X2(Y2) when motion of ball in positive X(Y) direction. It is supplied with a 6-wire connection cable of 35 cm.

No device driver is supplied with the unit. Please use standard available drivers in your operating system.

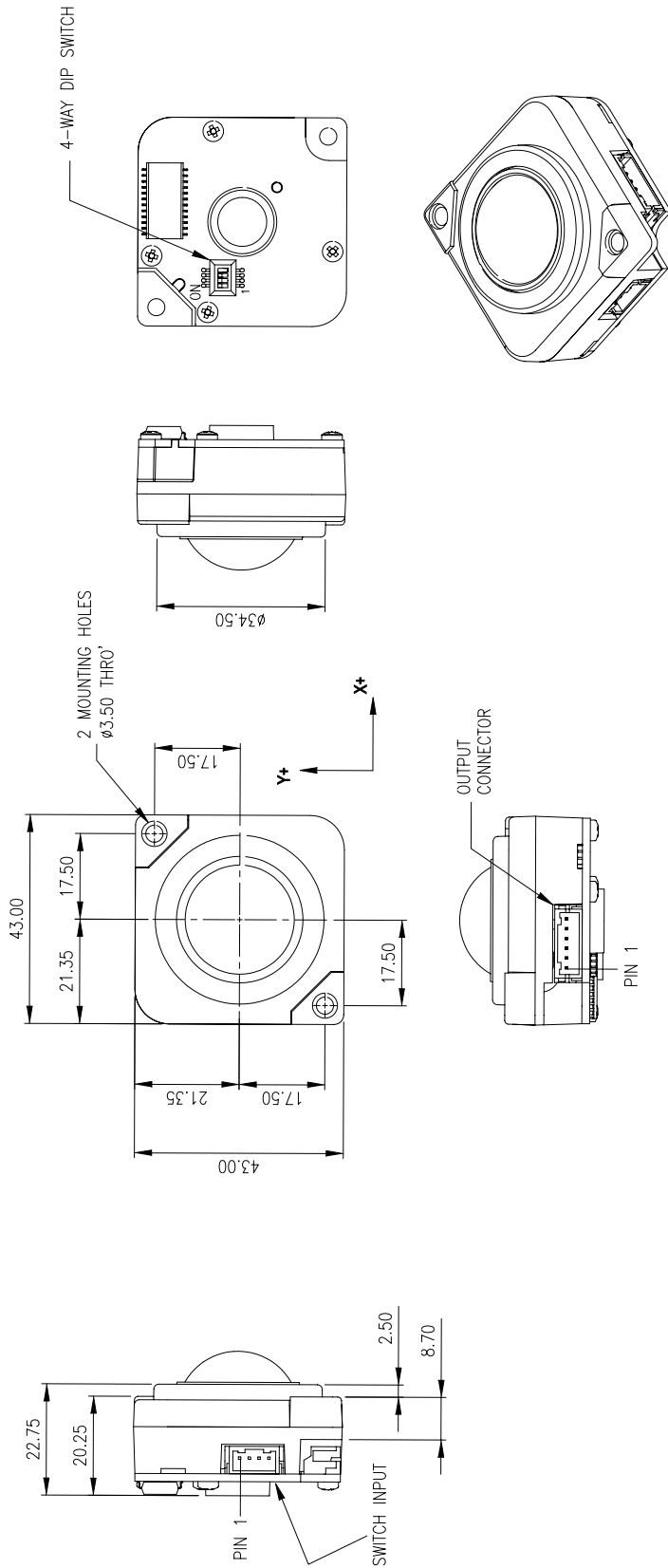
* Due to the increasing differences of the mouse port specifications of the various PC manufacturers, we do recommend that this unit should be tested on the final PC configuration and operating system prior to installing it in series.

• ORDERING INFO

Output	Order Number	Consisting of :
Quadrature	GK25-5002	P25-5002A0 : Trackball module only IC060635 : 35 cm interconnection cable to CON 1
PS/2	GK25-5502	P25-5602A0 : Trackball module only OC6006160 : 1,6 m shielded cable with 6 pin mini DIN plug IC040035 : 35 cm switch cable (4 wires) to CON2
USB	GK25-5602	P25-5602A0 : Trackball module only OC5006160 : 1,6 m shielded cable with USB type A plug IC040035 : 35 cm switch cable (4 wires) to CON2

25 mm TRACKBALLMODULE

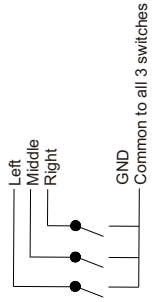
• DIMENSIONAL DRAWING



4 way connector (CON2)

Pin	Switch input
1	Left Switch
2	Middle Switch
3	Right Switch
4	GND

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



6 way connector (CON1)

Pin	Quadrature	PS/2 & USB
1	X1	N.C
2	X2	N.C
3	+5VDC	+5VDC
4	Y1	D-/Data
5	Y2	D+/Clock
6	GND	GND

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

Dim in mm

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



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