

### 25 mm TRACKBALLMODULE

#### GK25

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.



#### SPECIFICATIONS

- Sealing : IP65 (static)
- Casing material : Polycarbonate
- Top plate material : Polycarbonate
- Ball material : Phenolic resin with metal core
- Ball colour : Black
- Ball diameter : 25 mm
- Weight : 80 grams
- Seal material : PTFE Composite
- Shaft diameter : 4,5 mm
- Tracking force : 50 grams nominal
- Mounting angle : Max. 90° 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 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.

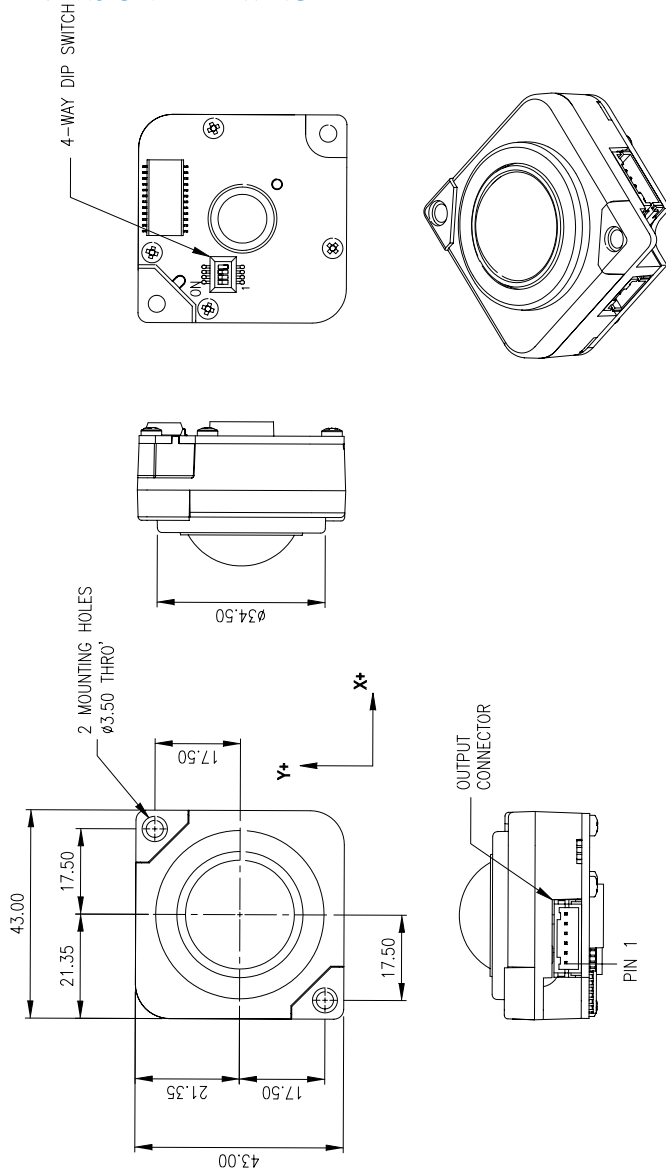
\* Due to the increasing differences of the mouse port specifications of the various PC manufacturers, we do recommend that this unit should be tested on the final PC configuration and operating system prior to installing it in series.

#### ORDER INFO

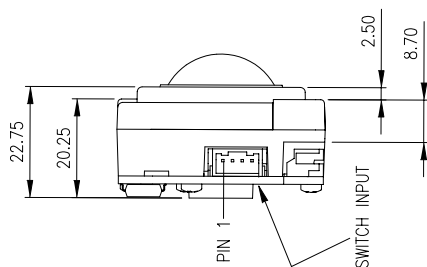
Output	Order Number	Consisting of :
Quadrature	<b>GK25-5002</b>	P25-5002A0 Trackball module only IC060635 : 35 cm interconnection cable to CON 1
PS/2	<b>GK25-5502</b>	P25-5602A0 : Trackball module only OC606160 : 1,6 m shielded cable with 6 pin mini DIN plug IC040035 : 35 cm switch cable (4 wires) to CON2
USB	<b>GK25-5602</b>	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

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#### DIMENSIONAL DRAWING



Dim in mm.



Dip switches : leave off, for factory use only.

#### 6 way connector (CON1)

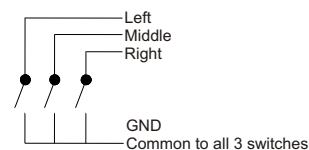
Pin	Quadrature	PS/2 & USB
1	X1	N.C
2	X2	N.C
3	+5VDC	+5VDC
4	Y1	D-/Data
5	Y2	D+/Clock
6	GND	GND

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

#### 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.



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