Datenblatt

Kunststofftrackball als Einbaumodul

GK50

Bezeichnung	GK50
Ausführung	OEM-Einbaumodul
Cursorsteuerung	Kunststofftrackball
Technologie	mechanisch
Balldurchmesser	50,8 mm
Ballmaterial	Phenolharz, schwarz
Gehäusematerial	Kunststoff
Schutzgrad	IP65 statisch
Betriebstemperatur	-10°C ... +60°C
Abmessungen	77,5 x 79,5 x 52 mm
Schnittstelle	PS2/USB, Matrix
Zusatzfunktion	ohne
Zertifizierung	CE
Artikelnummer	GK50-4002 (P50-500230), GK50-4502, GK50-4602 (P50-560230), TKH-TB50
Einsatzbereich	Industrie, Gerätebau

Datenblatt

Kunststofftrackball als Einbaumodul

GK50

ateg
Automation GmbH

50 MM TRACKBALL MODULE
IP65 sealed

The GK50 is a high specification keyboard or panel mounted trackball. It is constructed from a glass loaded PBT chassis and benefits from its large diameter shafts for smooth running. The GK50 is sealed to IP65 static (ball in rest). Designed to be panel mounted as part of OEM systems, the GK50 is ideal for demanding applications such as medical equipment, process control, air trafic control and ruggedised keyboards.

GENERAL TECHNICAL SPECIFICATIONS

Sealing	: IP65 (static)
Casing material	: Glass loaded PBT
Top plate material	: ABS
Ball material	: Phenolic resin
Ball colour	: Black
Ball diameter	: 50,8 mm
Weight	: 270 grams
Seal material	: PTFE
Shaft diameter	: 9,5 mm
Tracking force	: 50 grams nominal
Mounting angle	: Max. 90° to horizontal plane
Lifetime - Ball revolutions	: > 2 million
Supply voltage (GK50-4002)	: 5 Vdc +/- 5%
Supply current (GK50-4002)	: 6 mA typ
Storage temperature	: -25°C to +80°C
Operating temperature	:-10°C to +60°C
Relative humidity	: 93% non-condensing
Vibration	: 5G, 5-2KHz any plane

CONNECTIVITY

The GK50-4502 is PS/2 compatible. The GK50-4602 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 GK50-4002 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.
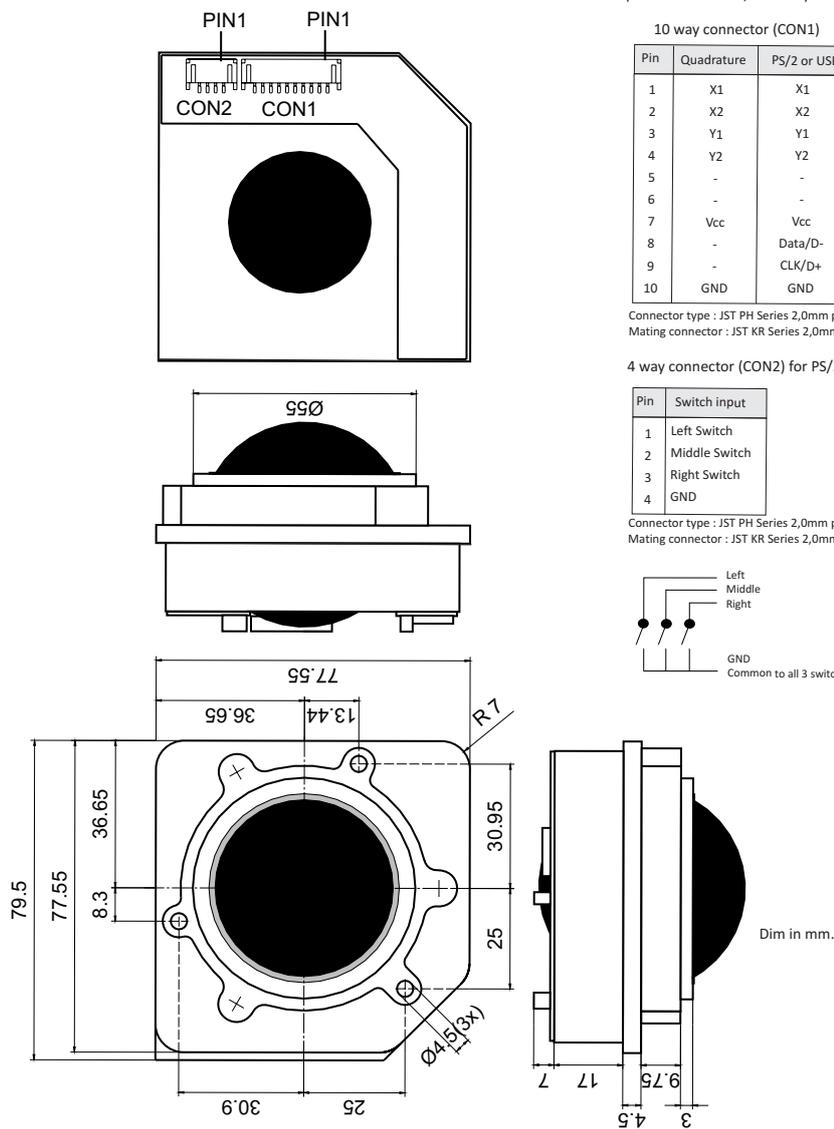.

ORDER INFO

OUTPUT	ORDER NUMBER	Consisting of :
Quadrature	**GK50-4002**	P50-500230 Trackball module only IC101035 : 35 cm interconnection cable to CON 1
PS/2	**GK50-4502**	P50-560230 : 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	**GK50-4602**	P50-560230 : Trackball module only OC5010160 : 1,6 m shielded cable with USB type A plug IC040035 : 35 cm switch cable (4 wires) to CON2

VER. 1.1

50 MM TRACKBALL MODULE

DIMENSIONAL DRAWING

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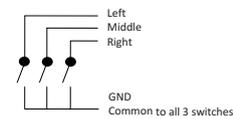
10 way connector (CON1)

Pin	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.
Mating connector : JST KR Series 2,0mm pitch.

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

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.

Left
Middle
Right

GND
Common to all 3 switches

Dim in mm.