



- 38 mm steel ball
- IP65 sealing

38 MM STEEL OEM TRACKBALLMODULE

The GS38 series are ruggedised professional trackballs for vandalproof applications. The ball and the trim are made of quality stainless steel. The double-sided seal ring provides a sealing to IP65 static (ball in rest). Stainless steel shafts and bearings ensure a solid and precise pointer control. The unit can be used for frontpanel mounting (remove the mounting bracket) or for backpanel mounting.

GENERAL TECHNICAL SPECIFICATIONS

Sealing	: IP65 (static)
Casing material	: ABS / Polycarbonate
Ball & trim material	: Stainless steel
Ball colour	: Black
Ball diameter	: 38,1 mm
Weight	: 300 grams
Seal material	: PTFE
Shaft diameter	: 3 mm
Tracking force	: 65 grams nominal
Mounting angle	: Max. 60° to horizontal plane
Lifetime - Ball revolutions	: > 2 million
Supply voltage (quadrature)	: 5 Vdc +/- 5%
Supply current (quadrature)	: 10 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 GS38-4502 is PS/2 compatible. The GS38-4602 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 GS38-4002 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.

OPTIONAL ANTI-VANDAL BACKPLATE

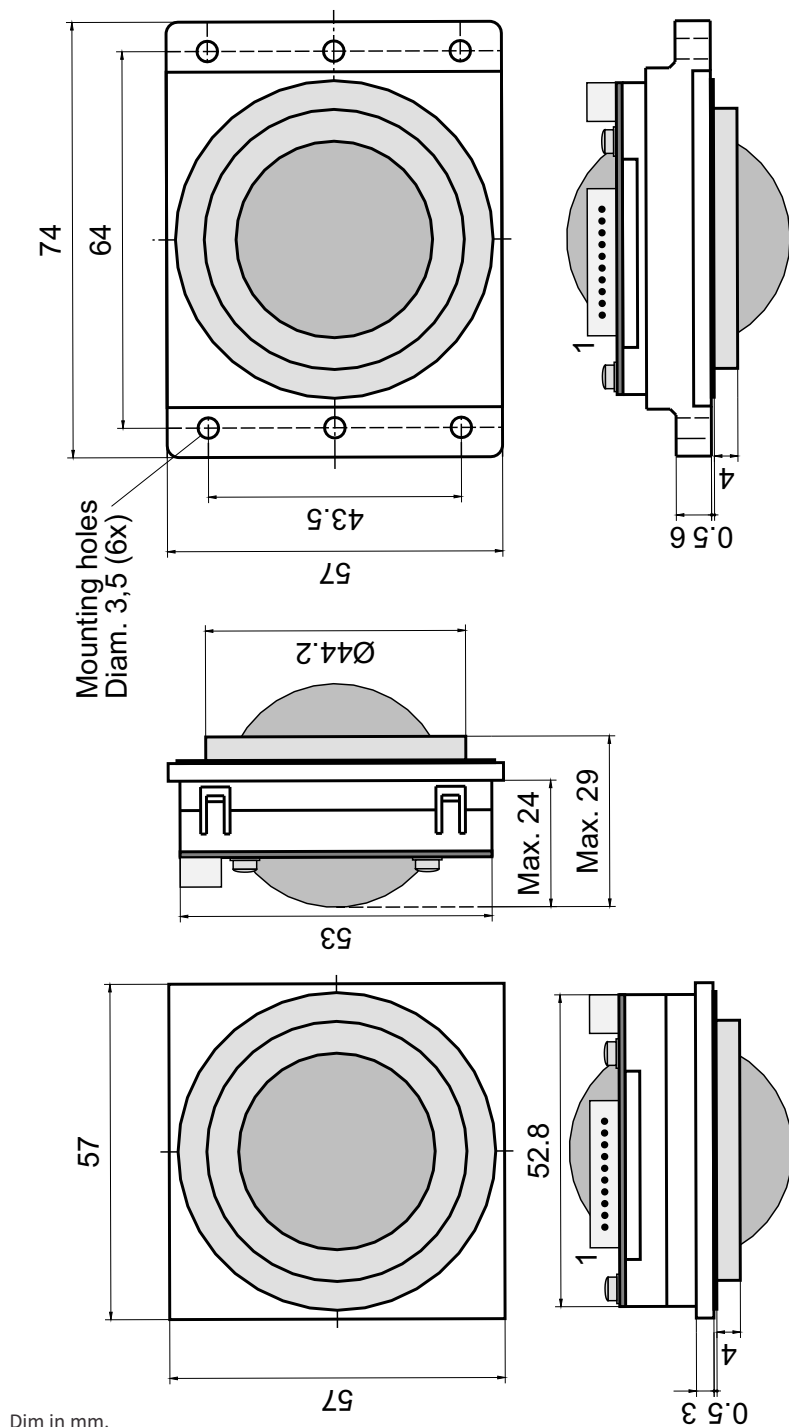
This additional backplate and mounting spacers enable the unit to absorb a very high level of abuse or impacts. When mounted properly by the end-user, this backplate will limit the hostile impacts on the ball to an acceptable level and protect shafts, bearings and other components of the unit.



ORDER INFO

OUTPUT	ORDER NUMBER	Consisting of :
Quadrature	GS38-4002	P38-50048C Trackball module only IC101035 : 35 cm interconnection cable to CON 1
PS/2	GS38-4502	P38-56048C : 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	GS38-4602	P38-56048C : Trackball module only OC5010160 : 1,6 m shielded cable with USB type A plug IC040035 : 35 cm switch cable (4 wires) to CON2
OPTION	AP38-1	Anti-Vandal Backplate Incl, spacers, washers and screws

DIMENSIONAL DRAWING



Dip switches : leave off, for factory use only.

10 way connector (CON1)

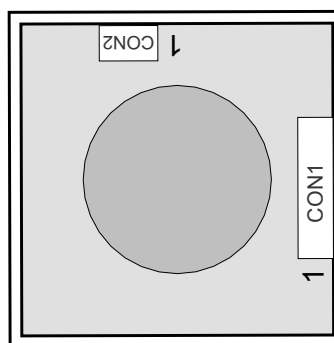
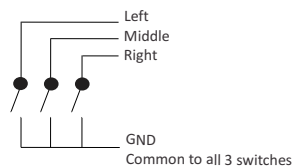
Pin	Quadrature	PS/2 or USB
1	X1	X1
2	X2	X2
3	Y1	Y1
4	Y2	Y2
5	-	-
6	-	-
7	Vcc	Vcc
8	-	Data/D-
9	-	CLK/D+
10	GND	GND

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.



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