

TW-50-IP65 Trackball

Heavy duty module with 50mm ball



Description

Applications:

The advantages of this 50mm of [Trackball](#) for back-panel installation are amongst other things the very rigid glass loaded polyester chassis with a tough ABS/polycarbonate top plate, and the patented scraper ring, which enables the ball to be IP54 (NEMA 2) or IP65 (NEMA 4). Thus this trackball is particularly well suitable for the installation into devices where each input counts, as in:

Medical , - Keyboard-Applications, common industrial Applications.

Features:

- The Trackerball is built for rough industrial applications. This is due to the special bearing of the ball and the good thickness with a special sealing that allow a degree of Protection up to IP65.
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On Request:

Beside the black ball (standard) we can offer on request also a high gloss high-grade steel ball, also an yellow-orange ball and a backlit-blue ball to you.

Please you consider also the installation version with high-grade steel front plate and integrated metal switches, as you can see in the cross-reference.

Output Connector (J1):

Pin	Quadrature Ausgang	PS/2	USB
1	X1	X1	X1
2	X2	X2	X2
3	Y1	Y1	Y1
4	Y2	Y2	Y2
5	-	-	-
6	-	-	-
7	VCC (+5VDC)	+5VDC	VCC
8	-	DATA	D-
9	-	CLOCK	D+
10	GND	GND	GND

Input Connector for Switches (J2):

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

Power Supply for optional Backlight Power:

Pin	Function
1	+5VDC
2	0V

Configuration with DIP-Switches:

DIP-Schalter	Funktion	Aus	Ein
1	Orientierung 1	Siehe Diagramm	Siehe Diagramm
2	Orientierung 2	Siehe Diagramm	Siehe Diagramm
3	VX3 - virtuelle 3. Achse	aktiviert	deaktiviert
4	Doppelte Tracking Rate	2:1	1:1
5-7	-	-	-
8	-	-	-

Explanation for VX3:

The 3rd Axis (VX3) can be of practical use for example in CAD Applications. In combination with the middle button the CAD-Program switches into PAN and ZOOM Mode, so that in a direction of rotation of the Trackball according to 3rd Axis is headed for. Repeated pressing of the middle key toggles between PAN and ZOOM Mode.

Pressing either the left or right buttons to return to normal mode.

Orientation-Setting:

Multi-Interface	9 o'clock	12 o'clock	3 o'clock	6 o'clock
Orientierung 1	On	On	Off	Off
Orientierung 2	On	Off	On	Off

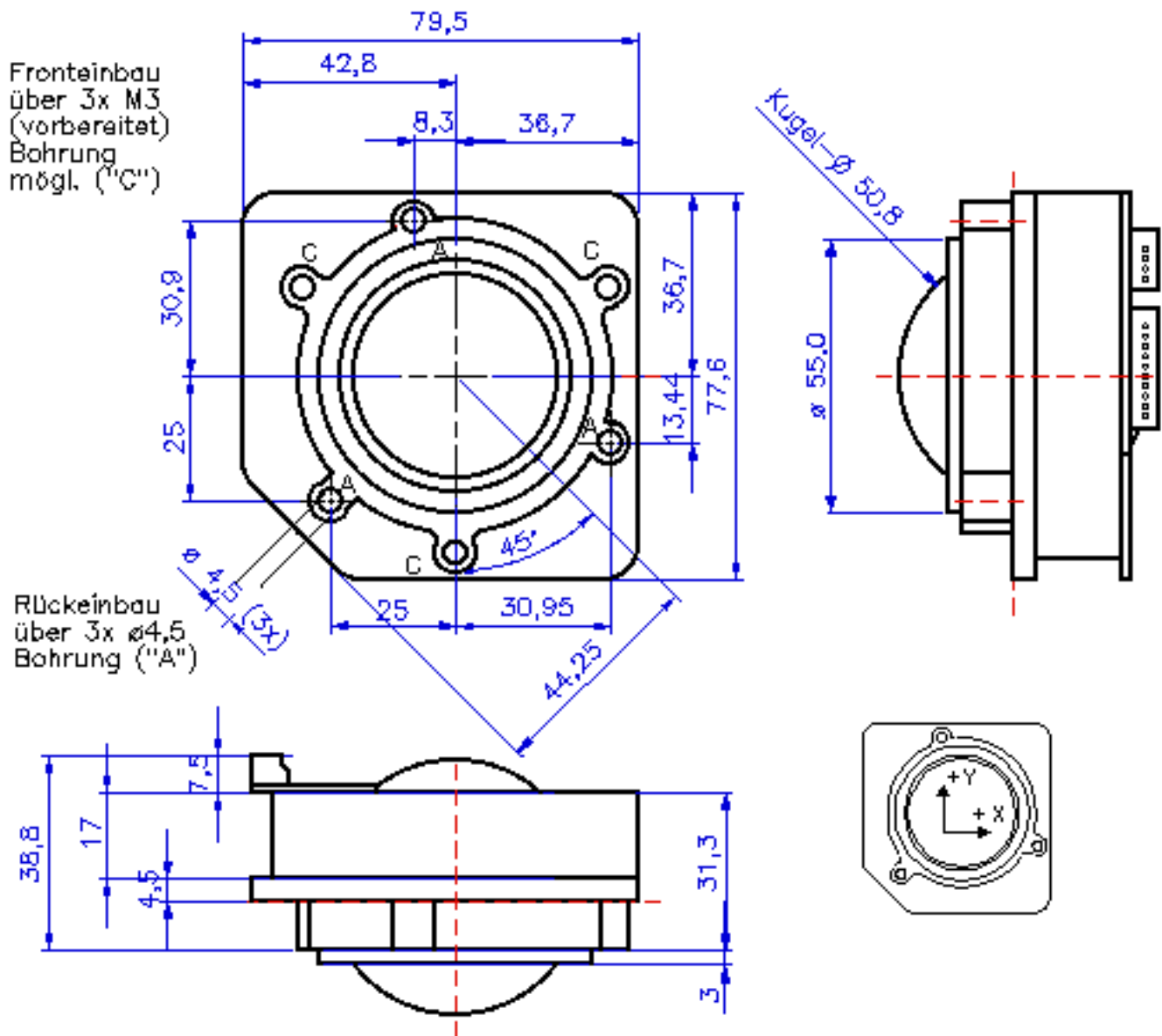
Explanation for Orientation:

View from top of Trackball:

Is the 10-pole. Female connector on left side (9 o'clock - as seen on the following technic-drawing), then the Dip-switches are to be adjusted according to above table.

In the example: USB-Version: Dip-1 and -2 On.

In order to rotate a quater clockwise (12 o'clock), then DIP 1 is ON and DIP 2 is OFF and so on.



Specification**Mechanical data**

Dimensions:	79,50 x 77,60 x 51,1 mm
Weight:	,270 kg
Housing:	Plastic
Degree of Protection:	IP65 & IP54
Color:	black

Electric Data

Additional Interface:	for mouse Quadratur
Operating Voltage:	5 ± 0,25 V

Environment

Operating Temperature:	from -0 °C to +70 °C
Storage Temperature:	from -25 °C to +85 °C
Humidity:	30% min., 95% max., not condensing

Additional Information

Ball material:	Thermoset Phenolic or Polyester
Ball colour:	black (opt. yellow or backlit blue)
Tracking force:	10/25/50 g kontinuierlich - at IP40/51/65
Ball load:	200 N downward pressure
Ball speed:	200 RPM
Transducers:	photo-optical encoders with LED's
Mounting position:	horizontal to 30° (non-sealed) horizontal to 90° (sealed)
Resolution (Quadrature-Output):	155 Pulses per revolution
Resolution (Protocol-Output):	310/155 Pulses per Revolution (per DIP switch)
External switch inputs:	3 switch support - left, middle, right (only available in protocol version!)
Optional Backlight- Trackball :	+5VDC, 100mA
Vibration:	5 Gs, 2-5KHz any plane
Shock:	100 Gs, duration 11ms
Lifetime:	> 10 Mio. Ball revolution - non-sealed > 2 Mio. Ball revolution - sealed

Order No.	Article
TW1077	TW-50-IP65-USB+PS/2 with onboard controller USB + PS/2

Accessories

Order No.	Article
ZK1290	USB Anschlußkabel, ca. 1.5m Länge cable for USB
ZK1297	Kabel-PS2 cable PS/2 for use with PS/2+RS232 Trackball-Contr.

ZK1245	Kabel zum Anschluß von 2 Tasten (L+R) an Trackball mit integriertem Controller	Cable Left+Right Mouseswitch -> Controller
ZK1342	Kabel zum Anschluß von 3 Tasten (L+R) an Trackball mit integriertem Controller	Cable Left+Right Mouseswitch -> Controller
ZT1043	ZTS- M19 Metalltaste 	M19 Zink-Druckguß Taster
ZT1091	M19-Edelstahl	M19 Edelstahl Taster

Links

Click!	Titel
	TVG-50 ø 50mm Trackball integrated into a stainless steel front panel with two vandal resistant switches, IP65
	TVG-50 Stainless Steel Trackball ø 50mm Trackball integrated into a stainless steel front panel with two vandal resistant switches, IP65

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