

TW-75-IP40Trackball

Trackball module of industrial applications, ball diameter 75 mm, degree of protection IP40



Description

Applications:

The advantages of this 75mm [Trackball](#) for back-panel-mounting are the very durable housing and the heavy ball. Thus this trackball is particularly well suitable for the installation into devices where each input counts.

the ideal device for:

High-resolution graphical interfaces, Video imaging systems, Medical equipment, Marine systems, sensitive inputs like in studios or theatre

Specials:

- very sensitive operation
- backlighting with a transparent light blue coloured ball
- up to 3 keys for standard Windows- functionality connectable
- [PS/2](#) as well as [USB](#)

Also available:

- RS232-interface
- with a felt gasket for IP51degree
- other colours of the ball (standard colour: black) like orange-yellow or transparent-blue

Output Connector:

Pin	Quadratur	PS/2+USB	RS232+PS/2
1	X1	X1	TX
2	X2	X2	Rx
3	Y1	Y1	DTR / CLOCK
4	Y2	Y2	RTS / +5V
5	-	-	GND
6	-	-	DATA
7	VCC +5VDC	VCC +5VDC	-
8	-	DATA / D-	-
9	-	CLOCK / D+	-
10	GND	GND	-

Input Connector for Switches:

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 of RS232+PS/2-Version:

DIP-Schalter	Funktion	Aus	Ein
1	Protokoll Mode	Microsoft RS232/PS/2	Mouse Systems/SUN *)
2	Orientierung 1	Siehe Diagramm	Siehe Diagramm
3	Orientierung 2	Siehe Diagramm	Siehe Diagramm
4	Doppelte Tracking Rate	2:1	1:1
5 *)	VX3 - virtuelle 3. Achse / SUN-MODE: Baud-Rate-Einstellung	aktiviert / 1200 Bd	deaktiviert / 9600 Bd
6	Smart Button Lock	aktiviert	deaktiviert
7	nicht verwendet	-	-
8	TTL Ausgangs-Pegel	Standard RS232-Pegel	TTL-Pegel / SUN

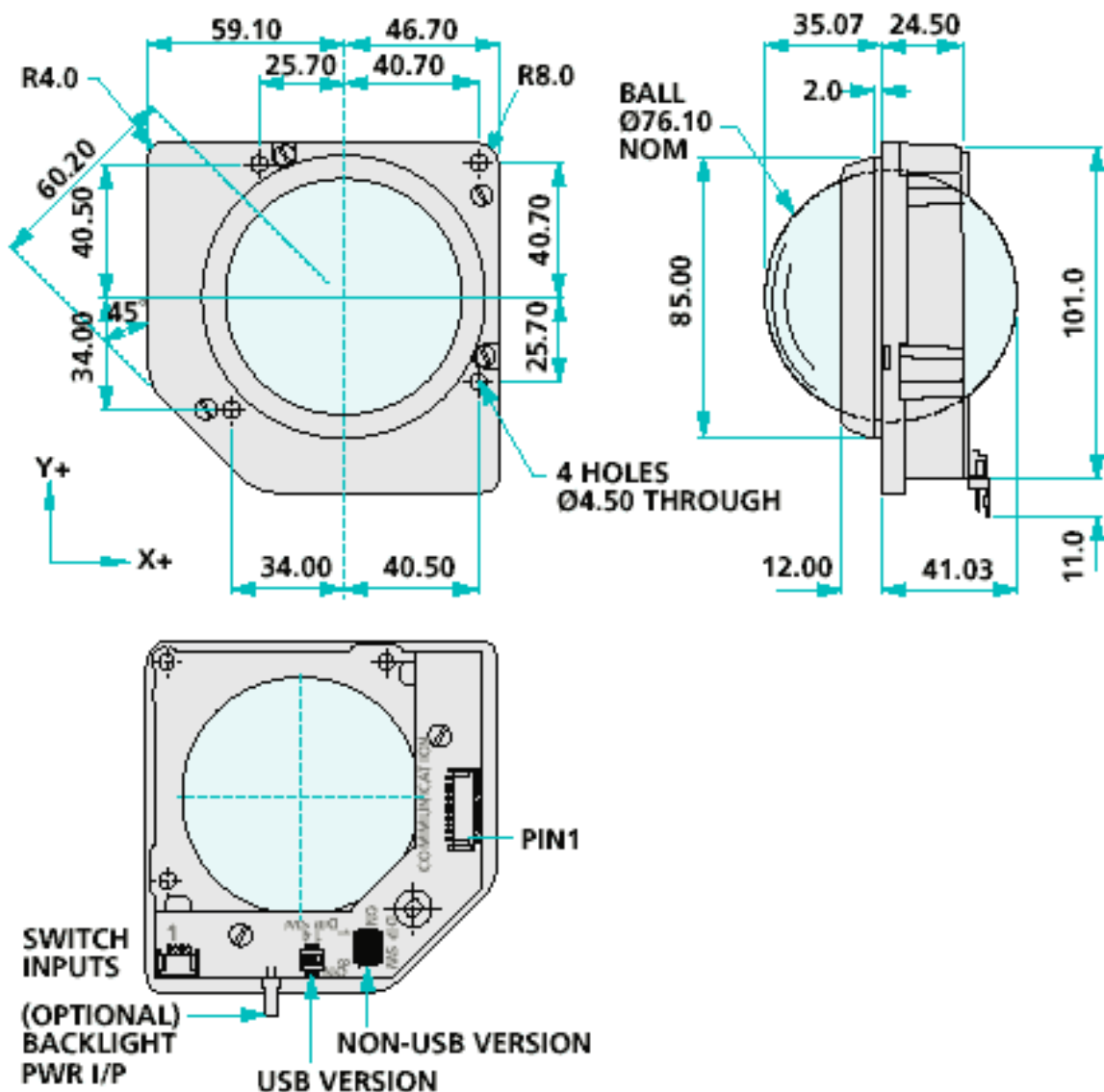
*) If switch 1 is on (in Sun / Mouse systems Mode), Switch 5 functions as a baud rate selector.

Configuration of PS/2 / USB -Version:

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	aktiviert	deaktiviert
5-7	nicht verwendet	-	-
8	Hintergrundbeleuchtung	Ein	Aus

Orientation:

Multi-Interface	9 Uhr	12 Uhr	3 Uhr	6 Uhr
Orientierung 1	Ein	Ein	Aus	Aus
Orientierung 2	Ein	Aus	Ein	Aus



Specification

Mechanical data

Dimensions:	105,8 x 105,80 x 76,1 mm
Weight:	,6 kg
Housing:	Plastic
Degree of Protection:	IP20
Color:	black

Electric Data

Operating Voltage:	5 ± 0,25 V
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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, backlit blue)
Tracking force:	15g continous (IP40) 25g continous (IP51)
Ball load:	200 N downward pressure
Ball rotation:	continuous and reversible - any direction
Ball speed:	100 RPM max
Transducers:	photo-optical encoders with LED´s
Mounting position:	horizontal to 30° (IP40) horizontal to 45° (IP51)
Resolution (Quadrature-Output):	265 Pulses per ball revolution
Resolution (Protocol-Output):	530/265 Pulses per ball revolution assignable with DIP-switch
External switch inputs:	3 switch support -left, middle, right (only in Protocoll-Versions!)
Supply Current, typical (Quadrature-Output):	6mA
Supply Current, typisch (Protocoll-Output):	10 mA
Optional Backlight-Trackball:	+5 VDC, 100 mA
Vibration:	5 Gs, 2-5KHz any plane
Shock:	100 Gs, duration 11ms
Lifetime:	> 10 mio. Ball revolutions - non-seal > 2 mio. Ball revolution - seal life

Order Information

Order No.	Article

TW1100	TW-75-IP40-RS232	serial with cable
TW1084	TW-75-IP40-USB	with integrated controller USB
TW1061	TW-75-IP40/PS2	PS/2 with cable

Accessories

Order No.	Article	
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

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