

# ES-TB

## *Vandalism protected trackball*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



ES-TB

stainless  
steel

### **Description:**

- A vandalism protected trackball in very robust processing.
- A full pointing device with the integrated 3 mouse buttons.
- Almost insensitive to violence.
- Mounting version with very low measurements for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Stainless steel ball, 38mm, with protection IP 65 (static), IP 56 (dynamic).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices wich have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** ES-TB AA PS2  
**article number:** 02001AA251A1503EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

## Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 3 buttons, 38mm stainless steel ball
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

## Layouts:

- All variants are possible.

## Variants:

- Custom-designed variants are possible (see our web-site).

## Connecting-Variants:

- PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

## Detail views:

- Compact 15mm button arrangement, include 38mm stainless steel trackball.
- Very robust steel construction
- Qualitatively excellent processing



## Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

## Principle:

- Contact by a silicon switch pad with carbon contacts.

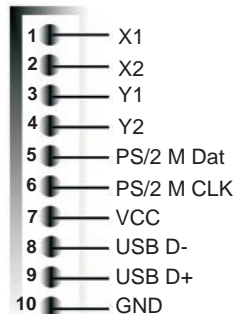
## Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

## Mode connections:

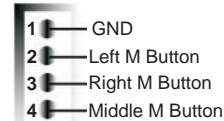
- Connection allocations for the different modes (must be modified by factory side):

### 10pin JST-Connector



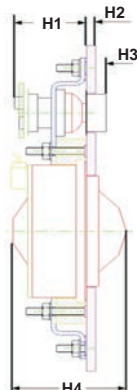
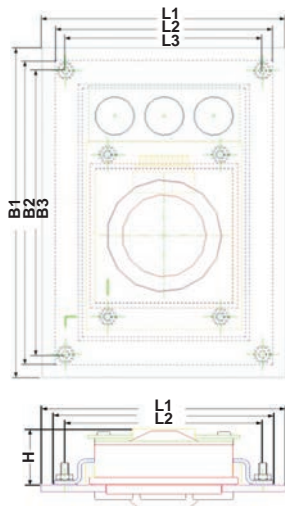
CON 1

### 4pin Connector



CON 2

## Dimensions:



L1 = 94,00mm  
L2 = 84,00mm  
L3 = 76,00mm

B1 = 130,00mm  
B2 = 120,00mm  
B3 = 112,00mm

H = 24,00mm  
H1 = 25,10mm  
H2 = 3,00mm  
H3 = 3,00mm  
H4 = 40,50mm

More information about the measurements can be downloaded from our web-site.

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