



CLAVIERS - PANELS PC - BOÎTIERS

## ES-TB BL

stainless  
steel

# ES-TB BL

## *Vandalism protected trackball*

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



### **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.
- In stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Black plastic 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 BL PS2  
**article number:** 02001AA2C1A1503EE00

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

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

ADPZ

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42800 Rive de Gier

Tel : (33) 4 77 83 77 03  
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Web site : [www.adpz.fr](http://www.adpz.fr)

## Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 3 buttons, 38mm black plastic 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 black plastic 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 freequented areas
- and any more

## Mode connections:

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

### 10pin JST-Connector

- |    |            |
|----|------------|
| 1  | X1         |
| 2  | X2         |
| 3  | Y1         |
| 4  | Y2         |
| 5  | PS/2 M Dat |
| 6  | PS/2 M CLK |
| 7  | VCC        |
| 8  | USB D-     |
| 9  | USB D+     |
| 10 | GND        |

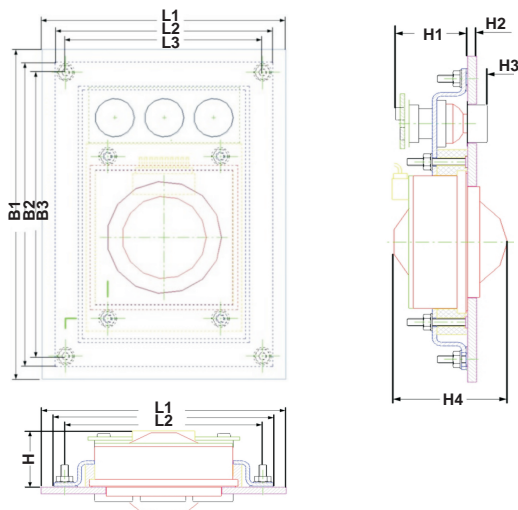
CON 1

### 4pin Connector

- |   |                 |
|---|-----------------|
| 1 | GND             |
| 2 | Left M Button   |
| 3 | Right M Button  |
| 4 | Middle M Button |

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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