The TSX series are waterproof and vandalproof industrial trackball units and use the latest generation of laser trackballs. These trackballs are highly suited for harsh industrial environments thanks to their robustness and ease of maintenance. They feature a removable top ring facilitating the cleaning of ball and ball compartment for use in even the most dusty environments. The concept itself of these laser trackballs make them waterproof as well.

The use of stainless steel for the various parts ensures the best resistance in salty or greasy environments. Due to its outstanding sealing, its professional style and its industrial robustness, this trackball unit is the best suited pointing device for all harsh or hostile environments, indoor and outdoor.

All panel mount types are supplied with a silicone sponge seal ring for adequate sealing into the customers' panel or console. A cover plate on the rear side protects the components.

Fields of applications are very wide: public access- and information kiosks, internet- and entertainment terminals, navigation controls, food industry, processing industries and many others.

Available in 9 different versions:

**PANEL MOUNT VERSION**

- Front panel mounting with studs OR
- Front panel mounting with holes (for countersunk M4 screws, not included)

  Choice of switches and carrier plate
  - IP65 pushbutton switches OR
  - IP68 short travel switches

  Choice of carrier plate
  - blank stainless steel carrier OR
  - matt blackened stainless steel carrier

**ENCLOSED VERSION**

- Enclosed version: complete blank stainless steel and IP68 short travel switches

**SPECIFICATIONS**

- **Sealing**: waterproof trackball module
- **Carrier plate**: stainless steel
- **Ball diameter**: 50.8 mm (2'\(\text{'}\))
- **Ball material**: polyester
- **Tracking force**: nom. 50 grams
- **Lifetime**: \(\geq 2\) million ball revolutions
- **Cable**: shielded, straight 1.6 m long
- **Operating temperature range**: -10°C to +60°C
- **Storage temperature range**: -25°C to +80°C
- **Dimensions / weight**
  - Panel mount: 100 x 116 x 50 mm / 0.6 kg
  - Enclosed: 200 x 120 x 63 cm / 1.3 kg

- **Buttons**
  - **pushbutton**
    - Sealing: IP65
    - Travel: 1.3mm
    - Operating force: 4N
    - Material: stainless steel
    - Mechanical life: 1 million
  - **short travel**
    - Sealing: IP68
    - Travel: 0.5mm
    - Operating force: 4N
    - Material: stainless steel
    - Mechanical life: 3 million

**50 mm LASER VANALPROOF TRACKBALLS**

**IP68 waterproof - 9 versions**

**CONNECTIVITY**

These combo USB & PS/2 trackball units have a 1.6 meter long shielded straight cable ended by a USB type A plug. An adaptor to PS/2 is added. No special device driver is needed, use standard available drivers of your operating system.

* Due to the increasing differences of the PS/2 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.

**ORDER INFO**

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<tr>
<td>Blank carrier</td>
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<td>TSX50S8</td>
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</table>

Output: USB & PS/2 Combo

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[Images of trackball models with and without studs, and enclosed version]
50 mm LASER VANDALPROOF TRACKBALLS
IP68 waterproof - 9 versions

DIMENSIONAL DRAWING

Front panel mount with studs

Front panel mount with holes

Dim in mm.

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