# IEC 60945 FULLY TESTED MARINE TRACKBALLS
## 9 versions - IP65/IP68 sealed

This TSX serie is approved for use with Solas Marine applications (f.i ECDIS). The trackballs are waterproof and vandalproof and uses the latest generation of laser trackballs. These trackballs are highly suited for marine 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.

IP68      50mm

## MAIN FEATURES

- Certificate of Conformity : Fully compliant with IEC60945
- 50 mm laser trackball - vandalproof
- IP65 / IP68 sealed
- Removable top for easy cleaning of bal compartment
- Combo PS/2 & USB output

## ORDER INFO

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

| | FRONT PANEL MOUNT WITH STUDS | | PANEL MOUNT WITH HOLES | | |
|---|---|---|---|---|---|
| IP65 pushbutton switches | TSX50F2-0001-MC3 | TSX50F2-0BT1-MC3 | TSX50N2-0001-MC3 | TSX50N2-0BT1-MC3 | ENCLOSED |
| IP68 short travel switches | TSX50F8-0001-MC3 | TSX50F8-0BT1-MC3 | TSX50N8-0001-MC3 | TSX50N8-0BT1-MC3 | TSX50S8-0001-MC3 |
| | Blank topplate | Black topplate | Blank topplate | Black topplate | Blank topplate |

VER. 1.1

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## GENERAL TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Sealing | : IP68 waterproof |
| Carrier plate | : brushed stainless steel |
| Ball diameter | : 50,8 mm (2'') |
| Ball material | : polyester |
| Dimensions / weight | |
|    Panel mount | : 100 x 116 x 50 mm / 0,6 kg |
|    Enclosed | : 200 x 120 x 63 cm / 1,3 kg |
| Lifetime | : >= 2 million ball revolutions |
| Tracking force | : nom. 50 grams |
| Output | : PS/2 & USB Combo |
| Cable | : 1 shielded, straight 1,6 m long |
| Operating temperature range | : -10°C to +60°C |
| Storage temperature range | : -25°C to +80°C |

| Switches | pushbutton | short travel |
|---|---|---|
| Sealing | IP65 | IP68 |
| Travel | 1,3mm | 0,5mm |
| Operating force | 4N | 4N |
| Material | stainless steel | stainless steel |
| Mechanical life | 1 million | 3 million |

CE
Compliant to EMC Directive 89/336/EEC for Electromagnetic Compatibility.
Low Voltage Directive 73/23/EEC not applicable for our trackballs.
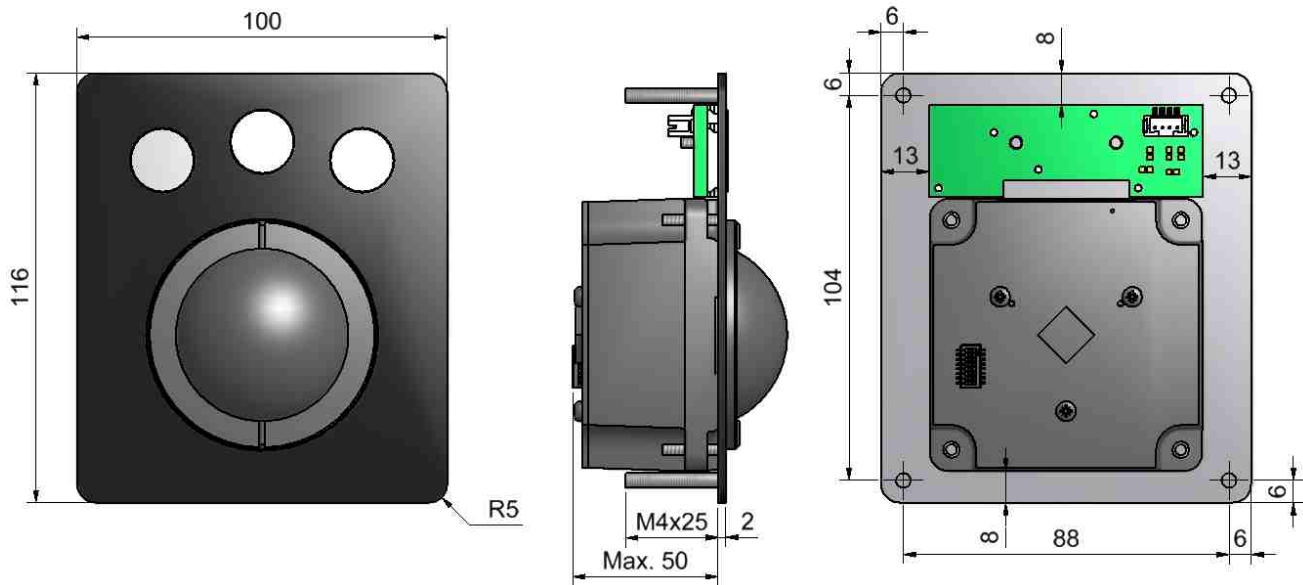
## CONNECTIVITY

These combo PS/2 & USB 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.
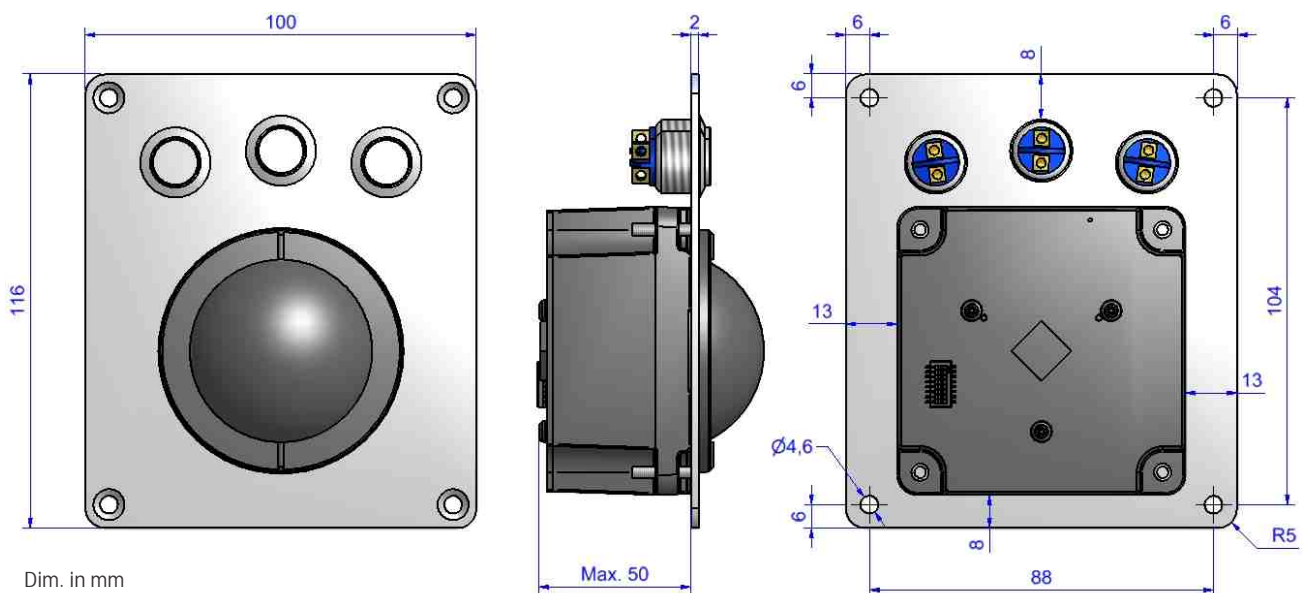
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## DIMENSIONAL DRAWING

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.

VER. 1.1