E38 Series: Ergonomic Desktop Trackball Module, USB & PS/2

Figure 1: E38 Desktop Trackball

1. DESCRIPTION

The E38 Series desktop trackball module is an extremely high specification device that incorporates the latest Cursor Controls Ltd IP65 technology.

The module combines the patented optical trackball technology with the Cursor Controls Ltd hall-effect scroll wheel to provide a fully waterproof desktop trackball solution.

To compliment these two technologies, the module also includes left, middle, and right switch functionality as found in all conventional desktop trackballs/mice, making the E38 Series module a complete human interface solution for control of a cursor.

In its standard configuration, the E38 Series is supplied with a black, fine-textured housing, aluminium base plate, USB and PS/2 electrical output, and a grey scroll wheel. A variety of electrical outputs, ball tracking force options, colours and backlighting features are also available - please contact your local sales office for further details regarding these custom options.

The solid state design allows the device to be subjected to extreme conditions and provides the user with the ability to wash down, decontaminate, and sterilise the module, making it the ideal trackball for a wide range of demanding applications and environments.

The unit has been designed to be a freestanding desktop device and optimises desk space when compared to a mouse.

2. FEATURES

The E38 Series desktop trackball incorporates the following features:

- Environmental sealing to IP65
- Infra-red optical navigation technology
- Integrated IP65 hall-effect scroll wheel technology
- Integrated left, middle and right switch functionality
- 38mm ball for precise cursor control
- USB & PS/2 outputs (auto select)
- Wired USB cable providing high reliability and avoiding the need for batteries
- Smooth operation in rugged environments
- Various custom options available (please contact your local sales office for details)

The E38 Series desktop trackball provides conventional X and Y axis cursor movement with an additional Z-axis scroll wheel. The Z-axis scroll wheel provides scroll/zoom and middle button capabilities for more effective navigation in complex user interfaces and operating systems (please note that the function of the scroll wheel is software dependent).

The trackball also features a removable retaining ring enabling the user to remove the ball for servicing, cleaning, and maintenance purposes.
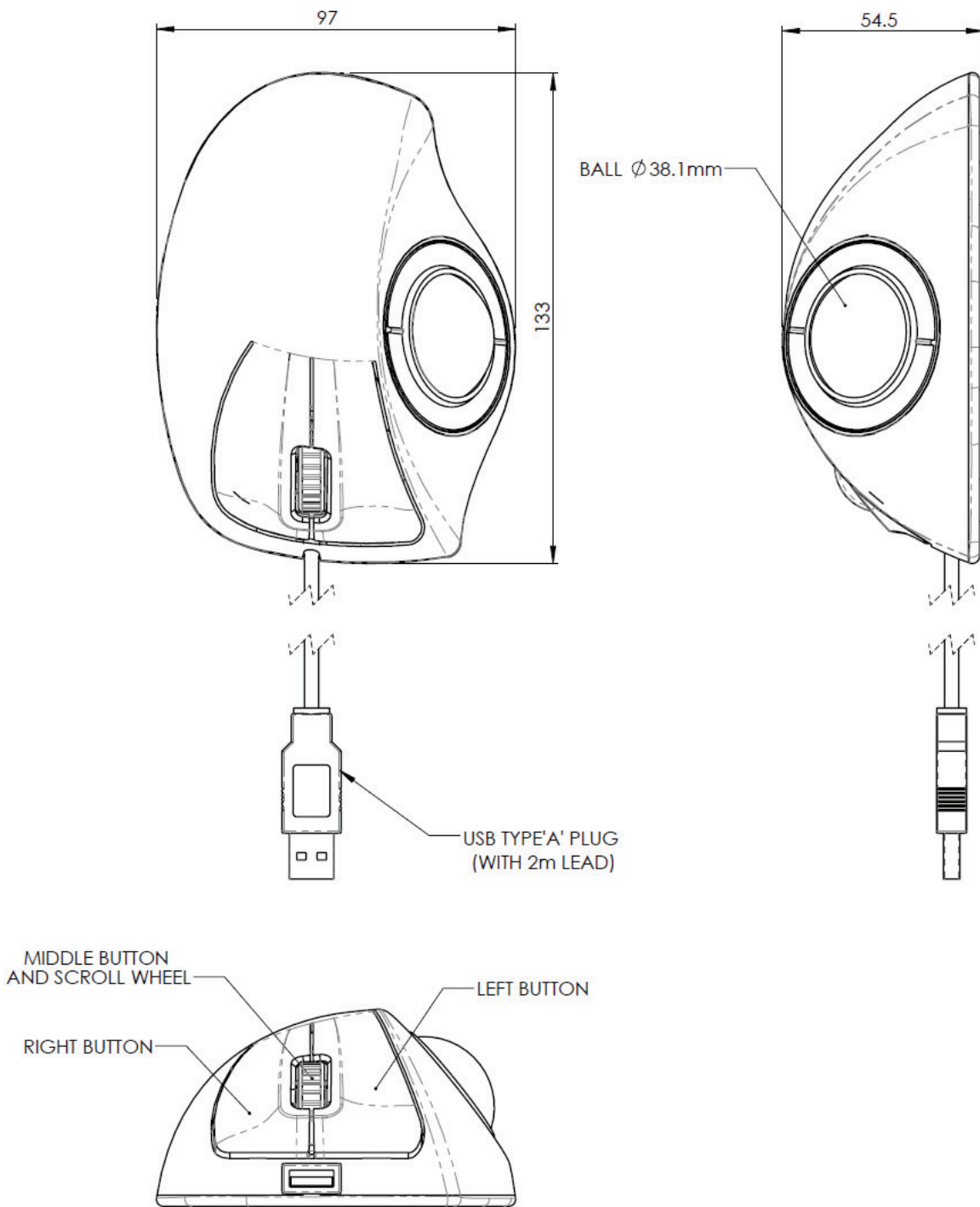

Figure 2: E38 Desktop Trackball Features

3. APPLICATIONS

The E38 Series desktop trackball is ideally suited to a wide range of applications including;

- Medical systems
- Custom keyboard applications
- Industrial consoles
- OEM custom solutions

5. DIMENSION DRAWING

97

54.5

BALL ⌀ 38.1mm

133

USB TYPE 'A' PLUG
(WITH 2m LEAD)

MIDDLE BUTTON
AND SCROLL WHEEL

LEFT BUTTON

RIGHT BUTTON

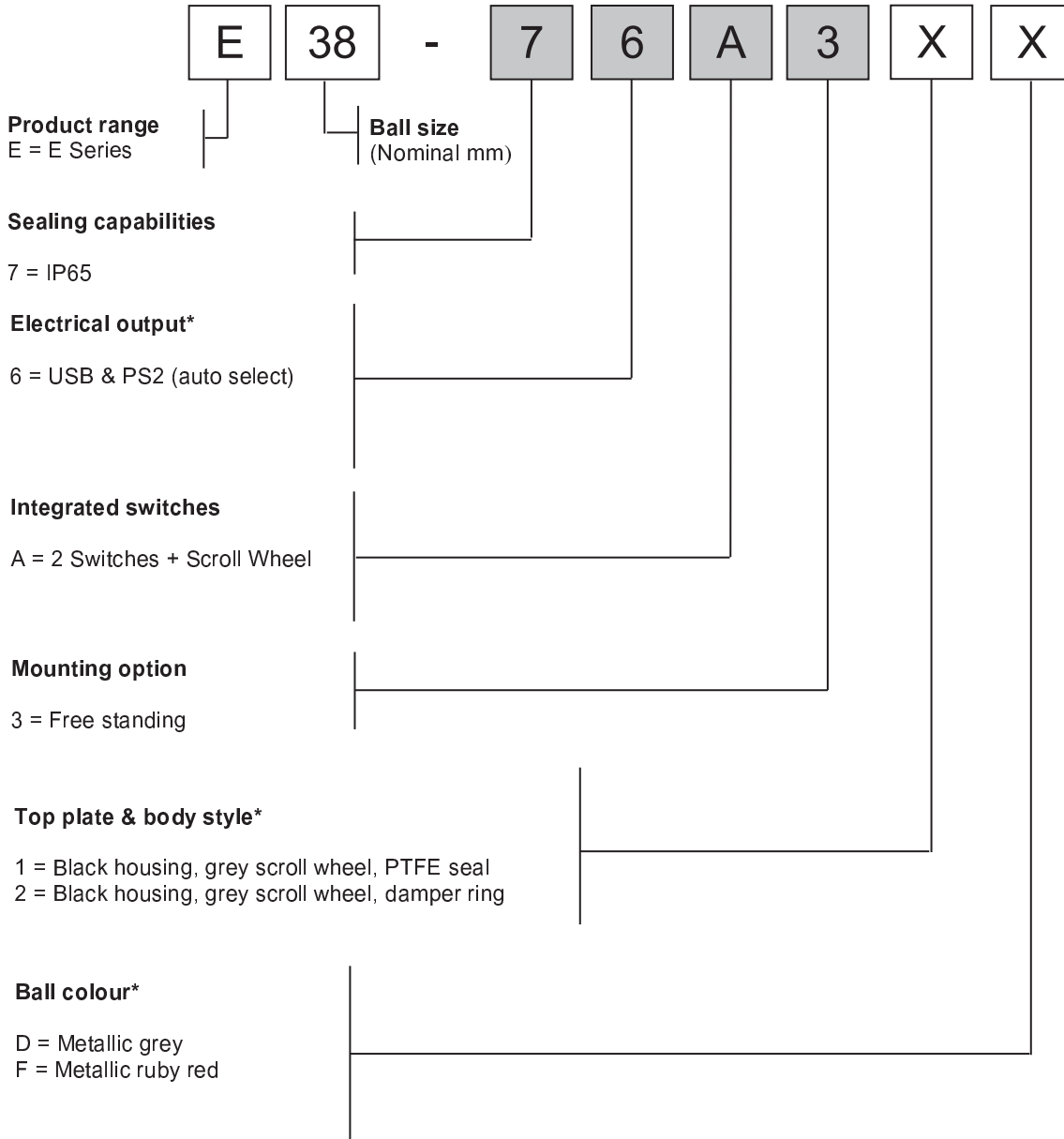**Figure 3:** E38 Desktop Trackball Dimensions

All dimensions are in mm unless otherwise stated
Tolerances +/- 0.25mm unless otherwise stated
Please note that an IGES/STEP model is available on request. Please contact your local sales office for more information

6. PRODUCT ORDERING CODE SYSTEM

Please construct your standard product ordering code by selecting the numbers and letters to suit your specification:

| E | 38 | - | 7 | 6 | A | 3 | X | X |

Product range
E = E Series

Ball size
(Nominal mm)

Sealing capabilities

7 = IP65

Electrical output*

6 = USB & PS2 (auto select)

Integrated switches

A = 2 Switches + Scroll Wheel

Mounting option

3 = Free standing

Top plate & body style*

1 = Black housing, grey scroll wheel, PTFE seal
2 = Black housing, grey scroll wheel, damper ring

Ball colour*

D = Metallic grey
F = Metallic ruby red

*Further options are available - please contact your local sales representative

6.1 Ordering Example

E38-76A32D: E38 Series Ergonomic Module, IP68, USB & PS2, 2 switches + scroll wheel, free standing, Black housing, grey scroll wheel, damper ring, metallic grey ball.