

Datenblatt

Industrie-Trackball im Gehäuse mit Scrollrad

E38-76A31D



Bezeichnung	E38-76A31D
Ausführung	Desktop Gehäuse
Tastenzahl	3 + Scrollrad
Cursorsteuerung	Kunststofftrackball
Technologie	Infrarot-Optik
Balldurchmesser	38,1 mm
Ballmaterial	Epoxydharz
Gehäusematerial	Kunststoff
Schutzgrad	IP68
Betriebstemperatur	0°C ... +55°C
Abmessungen	97 x 133 x 54,5 mm
Zusatzfunktion	herausnehmbare Kugel für einfache Reinigung
Zertifizierung	CE
Artikelnummer	E38-76A31D
Einsatzbereich	Industrie, Hygiene, Office
Schnittstellen	USB, PS/2

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Cursor Controls



- 38 mm optical ball
- IP68 sealing
- Integrated scroll wheel

38 MM ERGONOMICAL DESKTOP TRACKBALL

The E38 Series desktop trackball is an extremely high specification device that incorporates the latest IP68 technology. The trackball combines the patented optical trackball technology with the new hall-effect scroll wheel to provide a fully waterproof desktop trackball solution.

To compliment these two technologies the trackball also includes left, middle, and right switch functionality as found in all conventional desktop trackballs/mice making the E38 trackball 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 output, and a grey scroll wheel. 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 freestanding desktop device optimises desk space when compared to a mouse.

MECHANICAL SPECIFICATIONS

UNIT

Weight	~500 grams
Housing material	PC/ABS
Housing colour/finish	Black/fine-textured finish
Base plate material	Aluminium
Base plate finish	Bead blasted & clear anodised
Mounting position	All angles

TRACKBALL ASSEMBLY

Ball size/material	Ø38.1mm (1.5")/Epoxy resin
Tracking force	20 grams nominal – damper ring seal 20-40 grams – PTFE seal
Ball load	100N (10Kg) maximum downward pressure for 2 minutes @ 20°C
Resolvable ball speed	30 IPS (inches per second)
Tracking engine	Infra-red optical navigation technology
Removable ring	PC/ABS, black

SCROLL WHEEL

Wheel diameter	Ø25mm
Wheel material	PC/ABS
Wheel colour	Grey
Encoding technology	Hall effect
Magnet strength	N42
Detent-scrolling force	30 grams nominal
Switch actuation force	275 ± 125 grams force

LEFT/RIGHT SWITCH

Switch actuation force	250 ± 100 grams force
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FEATURES

- Sealing to IP68 (fully waterproof)
- Infra-red optical navigation technology
- Integrated IP68 hall-effect scroll wheel
- Integrated left, middle and right switch functionality
- 38mm ball for precise cursor movement
- Removable ball for easy cleaning
- Outputs: USB & PS/2 (auto select)
- Wired USB cable providing high reliability and avoiding the need for batteries
- Smooth operation in rugged environments
- No special driver required

ORDER INFO

desktop	E38-76A31D	Output : PS/2 & USB Combo	for panel mount version, see type TBE38
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ELECTRICAL SPECIFICATIONS

Protocol	USB & PS/2 (auto-select)
Supply voltage	4.4V to 5.25V DC
Supply current	100mA Max.
Trackball resolution	1200 counts per ball revolution @ 1 IPS (inches per second) +/- 10% 2400 counts per ball revolution @ 5 IPS (inches per second) +/- 10%
Scroll wheel resolution	24 counts per wheel revolution
Output connector	USB "A" type connector with 2 metre cable
Mating output connector	Standard USB "A" type socket

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	0°C to +55°C (IEC 60068-2-1, IEC60068-2-2)
Storage temperature	-40°C to + 85 °C (IEC 60068-2-1, IEC60068-2-2)
Operating humidity	93% RH @ 40°C, non-condensing (IEC 60068-2-78)
Storage humidity	10%-95% non-condensing (IEC 60068-2-78)
Vibration	2g, 10-500Hz, 1 octave/min, 10 sweep cycles (IEC 60068-2-6)
Operating Shock	15g/11ms, ½ sine, 3 shocks in +ve and -ve direction, all 3 axes (IEC 60068-2-27)
Mechanical lifetime	1 million ball revolutions
MTBF	in excess of 80,000 hours (MIL-STD-217F)
ESD	15kV air-discharge and 8kV contact discharge (IEC 61000-4-2)
EMC	Radiated immunity - limits according to level 3 of IEC 61000-4-3 Radiated emissions to EN55022 class B
Sealing capability	IP68

The E38 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 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 and maintenance purposes.



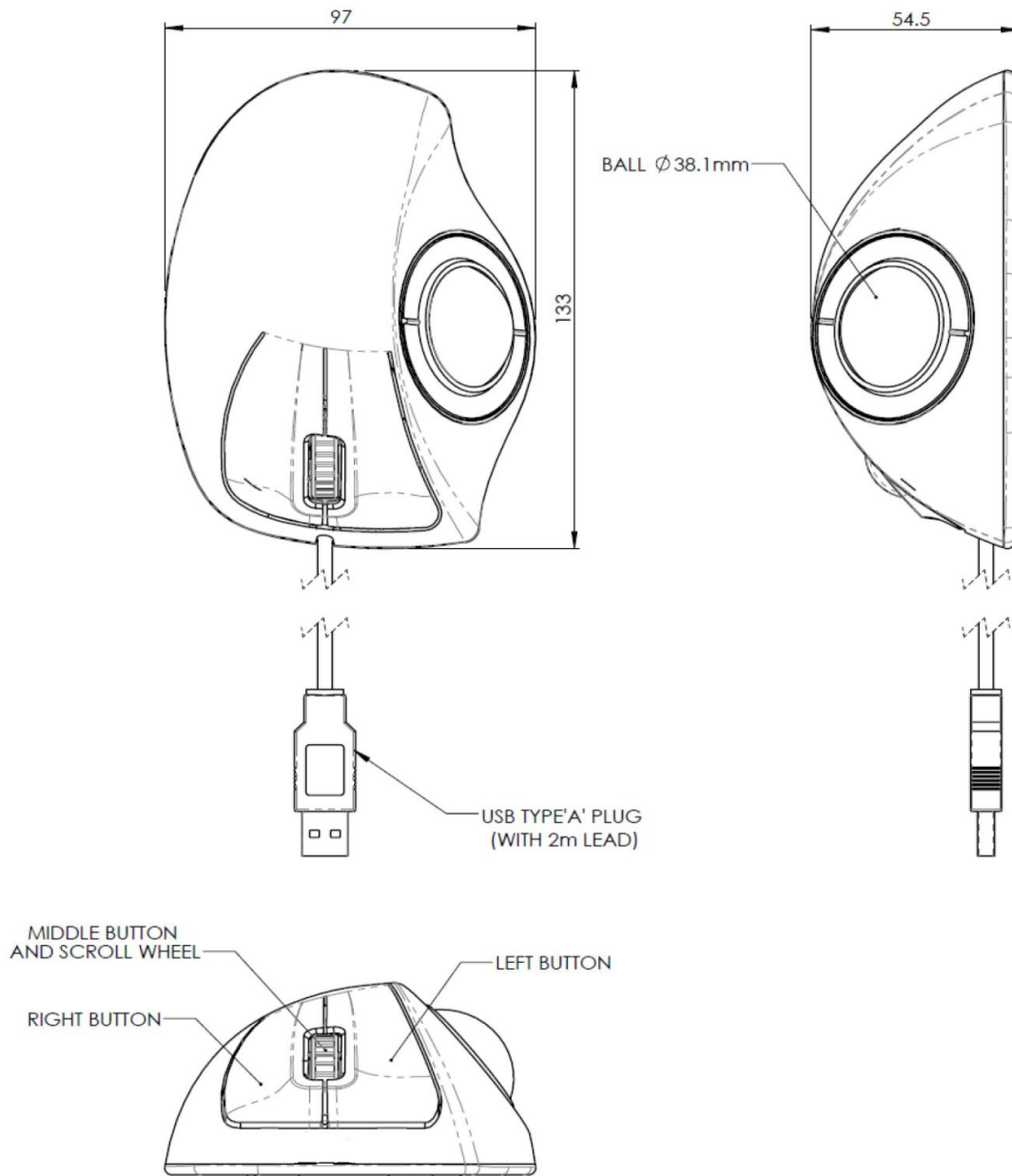
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DIMENSIONAL DRAWING



Dimensional drawing specifies factory default orientation.
All dimensions are in mm unless otherwise stated.
Tolerances +/- 0.25mm unless otherwise stated
IGES/STEP model available on request.

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