



**KEYBOARDS  
& POINTING DEVICES**  
for the most demanding jobs

**KSGE103-MC1**



desktop version



panel mount



- 103 keys, short travel
- IP67 sealing
- ergonomic 38mm trackball

## IEC60945 MARINE, WATERPROOF KEYBOARD WITH ERGONOMIC TRACKBALL

Multi-functional keyboard with separate numerical and control keys, complemented by an integrated ergonomic 38mm optical trackball. This keyboard offers unparalleled convenience and precision for a wide range of applications. A perfect synergy of advanced technology and ergonomic design. Panel mount and desktop version available.

### MAIN FEATURES

- Certificate of Conformity fully compliant with IEC60945
- Sealing to IP67
- User-friendly layout with separate numerical-, control- and function keypads
- Long-lasting low power LED's with high brightness
- Dimmable backlighting at 8 levels by two dedicated keys (FN key + arrow up/down)
- Intelligent luminosity setting of "numlock" and "capslock" LED's
- Trackball with left, middle and right switch functionality
- Integrated IP68 hall-effect scroll wheel
- Infra-red optical navigation technology
- Removable 38mm ball for easy cleaning
- No external power supply necessary
- No special driver required

### PANEL MOUNT VERSION

- Aluminium carrier and silicone sponge panel sealing
- Front panel mounting by means of M3 threaded studs.
- Added silicon sponge seal for perfect sealing into the user's panel
- The rear side components are protected by a covering metal plate
- Bezel for edge protection
- Dimensions: 464,50 x 167,50 x 78,20 mm
- Weight: 1,2 kg

### DESKTOP VERSION

- The keyboard is mounted in a robust, all steel enclosure
- Industrial epoxy coating (mid-grey).
- Dimensions: 468 x 171 x 73mm
- Weight: 1,4 kg

### GENERAL TECHNICAL SPECIFICATIONS

<b>KEYBOARD</b>	
Sealing	IP67 sealed
Keys	103 short travel switches, tactile feel switches with 0,3 mm travel and 2,55 N operating force
Output	1,8m USB cable type A connector
Power requirements	Directly from USB port
Operating temp.	-15°C to +60°C
Front layer	Black polyester front layer with embossed keys, scratch and chemical resistant
<b>TRACKBALL</b>	
Housing material	PC/ABS
Housing colour/finish	Black/fine-textured finish
Base plate material	Aluminium
Base plate finish	Bead blasted & clear anodised
Ball size/material	Ø38.1mm (1.5")/Epoxy resin
Tracking force	20 grams nominal – damper ring seal 30-80 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
<b>SCROLL WHEEL</b>	
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
<b>LEFT/RIGHT SWITCH</b>	
Switch actuation force	250 ± 100 grams force

**ORDER INFO**

COUNTRY LAYOUT	PANEL MOUNT WITH BEZEL	DEKSTOP VERSION
US Qwerty	<b>KSGE103B0001-W-MC1</b>	<b>KSGE103S0001-W-MC1</b>
Cyrillic Qwerty	<b>KSGE103B0007-W-MC1</b>	<b>KSGE103S0007-W-MC1</b>
French Azerty	<b>KSGE103B0033-W-MC1</b>	<b>KSGE103S0033-W-MC1</b>
Italian Qwerty	<b>KSGE103B0039-W-MC1</b>	<b>KSGE103S0039-W-MC1</b>
UK Qwerty	<b>KSGE103B0044-W-MC1</b>	<b>KSGE103S0044-W-MC1</b>
Dannish Qwerty	<b>KSGE103B0045-W-MC1</b>	<b>KSGE103S0045-W-MC1</b>
Swedish Qwerty	<b>KSGE103B0046-W-MC1</b>	<b>KSGE103S0046-W-MC1</b>
German Qwertz	<b>KSGE103B0049-W-MC1</b>	<b>KSGE103S0049-W-MC1</b>
Korean Qwerty	<b>KSGE103B0082-W-MC1</b>	<b>KSGE103S0082-W-MC1</b>
Turkish Qwerty	<b>KSGE103B0090-W-MC1</b>	<b>KSGE103S0090-W-MC1</b>

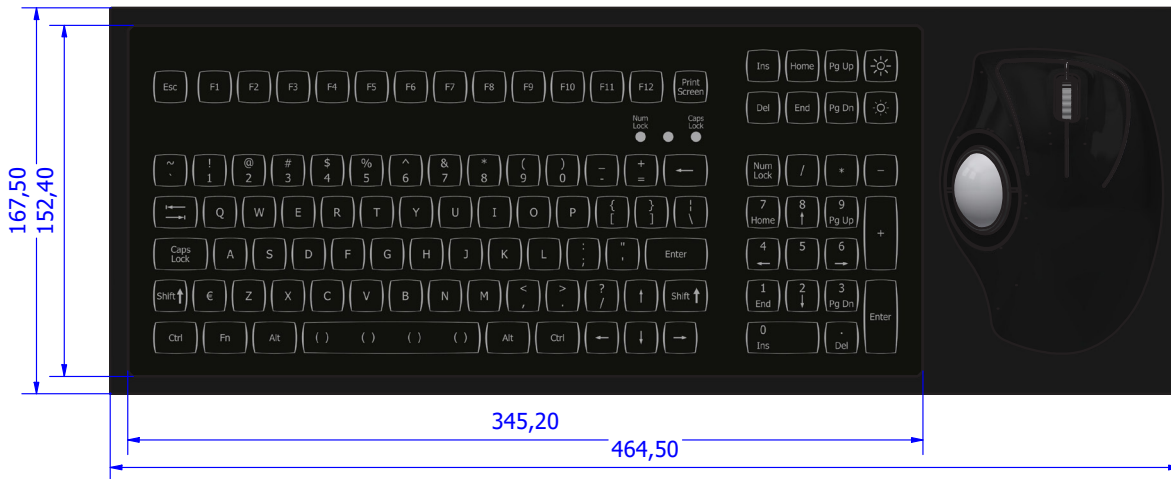
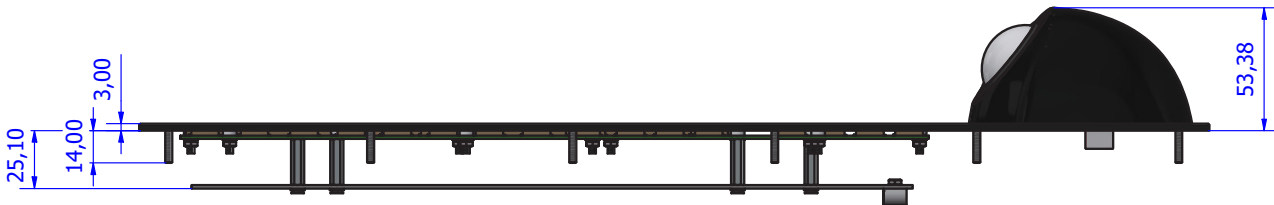


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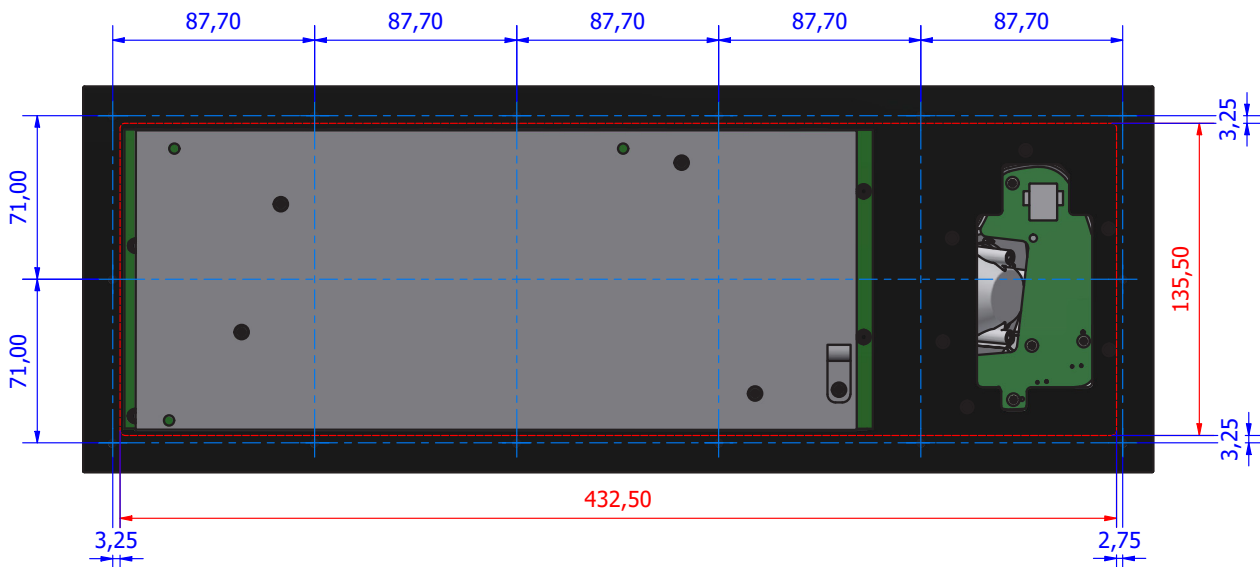
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DIMENSIONAL DRAWING

PANEL MOUNT



Build-In Dimensions





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KSGE103-MC1

DIMENSIONAL DRAWING

DESKTOP VERSION

