



panel mount



- 87 keys, full travel
- 38 mm ergonomic trackball
- IP65 sealing

## IEC60945 MARINE, FULL TRAVEL KEYBOARD WITH ERGONOMIC TRACKBALL

*This high quality full travel keyboard is designed for comfort over prolonged periods of use. A reliable, user-friendly solution for all applications which require very accurate pointer control and easy data input. It ensures durability and visibility in low-light environments. With a high-spec rubber dome key mechanism, 10 million actuations, and illuminated keys. The Backlighting is BUS powered over USB, customizable via PWM signal. The keyboard layout is customizable, and the aluminium construction provides robustness and protection. The integrated trackball module utilizes patented optical technology and IP rated mechanical switches, offering precise cursor control.*

### MAIN FEATURES

- Certificate of Conformity fully compliant with IEC60945
- Compact layout, 85 full travel keys
- 38 mm waterproof ergonomic trackball with hall-effect scroll wheel
- Sealing to IP65
- Removable ball for easy cleaning

### PANEL MOUNT VERSION

- Front of panel mounting by ten Ø3.4mm countersunk holes
- Metal protection covers on the backside protect the mechanical and electrical components.
- Added silicon sponge seal for perfect sealing into the user's panel
- Dimensions: see page 2
- Weight: ±1000 gram

### GENERAL TECHNICAL SPECIFICATIONS

#### KEYBOARD

|                    |  |
|--------------------|--|
| Sealing            | IP65 sealed  |
| Keys               | 87 full travel keys<br>3 mm travel and 0.49N - 0.97N operating force |
| Pointing device    | E38 ergonomic trackball  |
| Output             | ±1,6m USB cable  |
| Power requirements | Directly from USB port   |
| Operating temp.    | 0°C to +60°C   |

#### TRACKBALL

|                       |  |
|-----------------------|--|
| 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<br>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  |

#### 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 |
|------------------------|-----------------------|

### ORDER INFO

| COUNTRY LAYOUT | PANEL MOUNT VERSION      |
|----------------|--------------------------|
| US Qwerty      | <b>KFTE87N0001-W-MC1</b> |
| UK Qwerty      | <b>KFTE87N0044-W-MC1</b> |
| German Qwertz  | <b>KFTE87N0049-W-MC1</b> |

DIMENSIONAL DRAWING

PANEL MOUNT VERSION



**Proposed Cut-out dimensions**

