



**NSI**

KEYBOARDS & POINTING DEVICES  
FOR MARINE APPLICATIONS

# IEC 60945 MARINE APPROVED KEYBOARDS

## LED BACKLIT KEYBOARDS WITH 50mm TRACKBALL

These LED backlit keyboards are approved for use with Solas Marine applications (f.i ECDIS). All key legends, the key contour and trackball contour are illuminated with long life, low power LED's using fiber optics techniques. The KSML92 features a compact full-MF layout with integrated numpad and 50 mm laser trackball with removable ball. The KSML106 offers a multi-functional layout with separate numerical- and control keypads and integrates a 50mm opto-mechanical trackball.

KSML92x - 92 keys with laser 50 mm trackball



KSML92 F0001-W-MC1

KSML92 S0001-W-MC1

KSML106x - 106 keys with mechanical 50 mm trackball



KSML106 F0001-W-MC1

KSML106 S0001-W-MC1

### GENERAL FEATURES

- Certificate of Conformity fully compliant with IEC 60945
- High brightness LED's with fibre optics
- Illumination of the key legends, contour and trackball contour
- Low power LED's warrant for a long life
- No external power supply needed for backlight
- Dimmable backlighting at 8 levels by two dedicated keys
- Intelligent luminosity setting of "numlock" and capslock" LED's
- White backlighting
- 1 single 1,6 m USB cable
- US Qwerty layout

### SPECIFIC FEATURES

#### KSML92x

- IP67 sealing
- 92 short travel switches
- 50 mm laser trackball - IP68 sealed
- Removable ball for easy cleaning
- Compact layout
- Front panel mounting with holes (for countersunk M4 screws, not included)

#### KSML106x

- IP65 sealing
- 106 short travel switches
- 50 mm opto-mechanical trackball - IP65 sealed
- User-friendly layout with separate numerical-, control- and function keypads.
- Front panel mounting with studs
- Optional covering bezel in blackened aluminium in case the keyboard can not be sunk mounted, type CFR-02

### CUSTOMIZATION



Possible customization includes adapted backlighting controls, addition of company logo or specific function keys, different layouts, different colour, all this without having to reapply for certification!

For more technical specifications and complete type numbering see datasheets on our website [www.nsi-be.com](http://www.nsi-be.com)



## IEC 60945 MARINE APPROVED TRACKBALLS

### LASER TRACKBALL WITH REMOVABLE BALL

*Stainless steel units for the best performance in salty or greasy environments.  
For all harsh or hostile environments, indoor and outdoor*

- Certificate of Conformity fully compliant with IEC 60945
- Waterproof IP68 sealed
- Latest laser technology, 50 mm ball
- Removable ball for easy cleaning
- Stainless steel carrier
- 9 standard versions
- Versions in blank or black painted stainless steel
- IP68 short travel switches or IP65 pushbutton switches
- Front panel mounting (holes or studs) or enclosed version
- Directly plug & play compatible to PS/2 or USB ports



TSX50 serie

## TRACKBALL UNITS FOR MARINE APPLICATIONS



TSW50F5

### SELF DRAINING & REMOVABLE TRACKBALL

- IP68 sealed
- 50 mm laser optical trackball
- Removable ball
- Self-draining and flush through options
- Mounted on a black painted stainless steel carrier plate
- Directly plug & play compatible to PS/2 or USB ports

### OPTO-MECHANICAL TRACKBALLS

- Opto-mechanical technology, IP54 or IP65 sealing
- 25mm, 38mm or 50mm trackball diameter
- Highly robust, vandalproof and all metal construction
- With black phenolic ball or stainless steel ball
- Carrier plate made of brushed stainless steel
- Stainless steel ring protecting the trackball sealing
- Anti-vandal stainless steel switches IP65 sealed.
- Directly plug & play compatible to PS/2 or USB ports



### BACKLIT TRACKBALLS



TCS50 - TCL50

### CHAMELEON TRACKBALLS

- IP65 sealed trackball, switches and panel (silicon seal added)
- Full backlighting of ball and switches in up to 7 different colours
- Selectable colours, internally (fixed) or remotely (dynamic)
- Illumination intensity can be dimmed internally (fixed) or remotely (dynamic)
- Illumination power directly from mouse port, no extra power supply
- Industrial grade 50mm large trackball, epoxy resin, translucent
- Versions with polyester front or with stainless steel carrier plate
- Directly plug & play compatible to PS/2 or USB ports



## LASER TRACKBALL MODULES : X-Range



X13



X19



X25



X38



X50

### 13 mm, 19 mm, 25 mm, 38 mm and 50 mm LASER TRACKBALLS

- Sealing to IP68
- Removable ball for easy cleaning
- Solid state sensing technology, laser tracking engine
- Smooth operation in rugged environments
- Ability to wash down, decontaminate and sterilise
- Various top plate configurations
- Increased high speed tracking
- Increased resolution options
- Reduced power consumption
- Custom connector options possible
- Best performance/cost ratio
- PS/2 & USB or Quadrature outputs



Optional Halo backlight



## OTHER KEYBOARDS FOR MARINE APPLICATIONS

### LED BACKLIT "COMMANDER" KEYBOARD

- Sealing IP65
- 38 numeric, function and control keys
- 38 mm industrial grade trackball, IP65 static sealing
- Fast access of the most important machine commands
- Front panel mount version with eight M3-threaded studs
- Enclosed version with robust ABS housing



KSML38-LED

## CUSTOM SOLUTIONS



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