

User manual
KSTM80-LED series
"DuraLight keyboard"

Ver. 1.0

• Installation:

Keyboard with USB output protocol

The keyboard and trackball parts are directly plug compatible to a USB port or hub (type A USB connector). A special device driver is not required.

Keyboard with PS2 output protocol

- Keyboard part: The keyboard is directly plug compatible to a PS/2 port (6 pin mini-DIN plug)
- Trackball part: Directly plug compatible to a PS/2 port (6 pin mini-DIN plug) A special device driver is not required.


** Due to the increasing differences of PS/2 mouse port specifications of the various PC manufacturers, we do recommend that this unit should be tested on the final PC configuration and operating system prior to installing it in series.*


*** Both keyboard and trackball parts need to be connected to ensure a good functioning.*

You can use regular mouse (2 or 3 button) drivers which are supplied with most popular menu-driven operating systems. Please make sure to install the keyboard driver which corresponds with your keyboard country version: f.i. US-Qwerty install driver KEYB US / for FR-Azerty: install driver KEYB FR.

Note: Eurosign is only supported in up to date operating systems, older systems don't support Euro. When working on Win2000 or XP with a US qwerty keyboard, Euro is supported if US international layout is selected in the controlpanel.

• Light adjustment:

The illumination intensity is full scale controllable and will increase by holding down the  key (FAST setting, max 7 second) or by sequentially pressing it (FINE setting).

Decreasing the illumination intensity is accomplished by operating the  key together with the "FN" key and in the same manner as above.

The last dimming position is automatically memorized at power off and restored at power on.

• Maintenance:

This keyboard with trackball is primarily used into heavy duty environments. In view of the contamination that may be encountered in these areas, periodic ball cleaning might be necessary. The cleaning procedure does not require any dismantling of the trackball unit.

Procedure:

- 1) For safety reasons, trackball cleaning should only be undertaken by competent personnel when the host system is powered down.
- 2) A computer keyboard type cleaning agent (alcohol based), should be used. This should be applied to a lint free cloth, not directly to the ball, to avoid flooding the trackball.
- 3) The ball surface should be gently wiped using the cloth. The ball should be rotated until access has been gained to the entire ball surface.
- 4) The ball should be allowed to dry before further use.

• Internal connections and functions:

For more details on the functions and the pin numbers of the components used, please visit our support page on our website : <http://www.nsi-be.com/support.htm>



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• EC Declaration of conformity:

Meets the intent of Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the official Journal of the European Communities:

Immunity	EN 61000-6-2: 2001	Electromagnetic compatibility- Part 6-2: Generic standards - Immunity for industrial environments
	EN 61000-4-2: 2001	EMC- Part 4: Testing and measurement techniques- Section 2: Electrostatic discharge immunity test. Basic EMC Publication.
	EN 61000-4-3:1997	EMC- Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test.
Emission	EN 61000-6-4:2001	Electromagnetic compatibility- Part 6-4: Generic standards - Emission standards for industrial environments.
	EN 55022:1998+A1:2000	Information technology equipment- Radio disturbance characteristics- Limits and methods of measurement.

• FCC Declaration of conformity:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial or industrial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the use will be required to correct the interference at his own expense.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.