

# "NIGHT VISION" **KEYBOARD & TRACKBALL**

**Digitally dimmable backlighting with automatic day/night control**

Based on the standard 105 key short travel keyboard, this unit combines all functions, controls and features for comfortable key input and cursor control under low light conditions as well as under normal daylight. This sealed industrial keyboard integrates a 50mm large industrial grade trackball for accurate and precise cursor control. The key legends, the key edges and the trackball contour are backlit for ease of recognition under low light conditions. The backlight is digitally dimmable at 8 distinctive levels in order to set it to the operators' best comfort. An automatic night/day sensor controls the on/off setting of the backlight and the luminosity of the "numlock" and "capslock" Led's. Several internal features warrant for a longer life of the backlighting source.



KSTL105F1yyy-BLEL  
Dim. : 432 x 152 x 40 mm  
Weight : 1,2 kg

- best operator comfort by backlit legends, key edges and trackball contour
- digitally dimmable backlighting at 8 levels by pressing one defined key
- automatic day/night switching of the backlight
- automatic day/night luminosity setting of the "numlock" and "capslock" LED's
- backlighting independant of the PC port supply for maximum intensity settings
- state-of-the-art, mechanically reinforced backlighting source for prolonged life
- MF layout with 105 short travel tactile keys, IP67 sealing
- 50mm large, industrial grade trackball, IP65 static sealing
- PS/2 or USB outputs for keyboard and trackball

KSTL105S1yyy-BLEL  
Dim. : 475 x 215 x 57 mm  
Weight : 3,5 kg

**• BACKLIGHTING SYSTEM**

Use of an electro-luminescent (EL) lamp from a specialized, reputable source with many years of field experience in naval and aeronautics applications.

The EL lamp has an aluminium base layer for longest mechanical life under intensive switch operations. Thanks to the automatic night/day on/off switching and to the dimmable light intensity, the useful life is at least 10.000 hours and the expected useful life under low light conditions (light source intensity of 10 cd/m<sup>2</sup>) is more than 20.000 hours.

**• ORDERING INFO**

<b>KSTL105F1yyy-BLEL</b>	Panel mount version
<b>KSTL105S1yyy-BLEL</b>	Enclosed version

US Qwerty layout  
yyy = protocol output : PS2 or USB

**OPTIONAL**

<b>ADT1512-T3</b>	100~240VAC to 12VDC/15W power adapter, table type supplied without the power cord (specific for each country)
<b>CFR-02</b>	Covering frame in blackened aluminium (for top panel mount applications)



ADT1512-T3

CFR-02

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## • TECHNICAL DATA

### MECHANICAL

- short travel, tactile feel switches with 0,3 mm travel and 2,55 N operating force
- black polyester front layer with rim embossed keys
- aluminium carrier and silicone sponge panel sealing
- 50mm trackball, black epoxy resin ball
- enclosed version : steel enclosure with industrial epoxy coating (mid grey)

### ENVIRONMENTAL

- operating temperature : 0°C to +55°C
- sealing panel mount keyboard : IP67 frontal; trackball IP65 static
- sealing enclosed keyboard : IP54 total unit

### ELECTRICAL

- supply voltage for keyboard and trackball : +5VDC +/- 5% / max 200mA (supplied via the keyboard and mouse PC ports)
- supply voltage for the backlighting circuitry : +12VDC +/- 5% / max 800mA (to be supplied by the user or AC/DC adapter available as an option). Via DC socket with centerpin(+) of 2,5 mm diameter.
- PS/2 or USB output for keyboard and trackball. Via shielded cable(s) of 1,6 meter.

## • DIMENSIONAL DRAWING



OPTION : covering frame (in case of front panel mounting).  
For mounting details see user manual at [www.nsi-be.com/manual\\_nightvision.pdf](http://www.nsi-be.com/manual_nightvision.pdf)

### COLOURS

Keyboard & Key Background : PANTONE Black 2 C 2X  
Key edges & key legends : White Translucent

The Chameleon Group

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