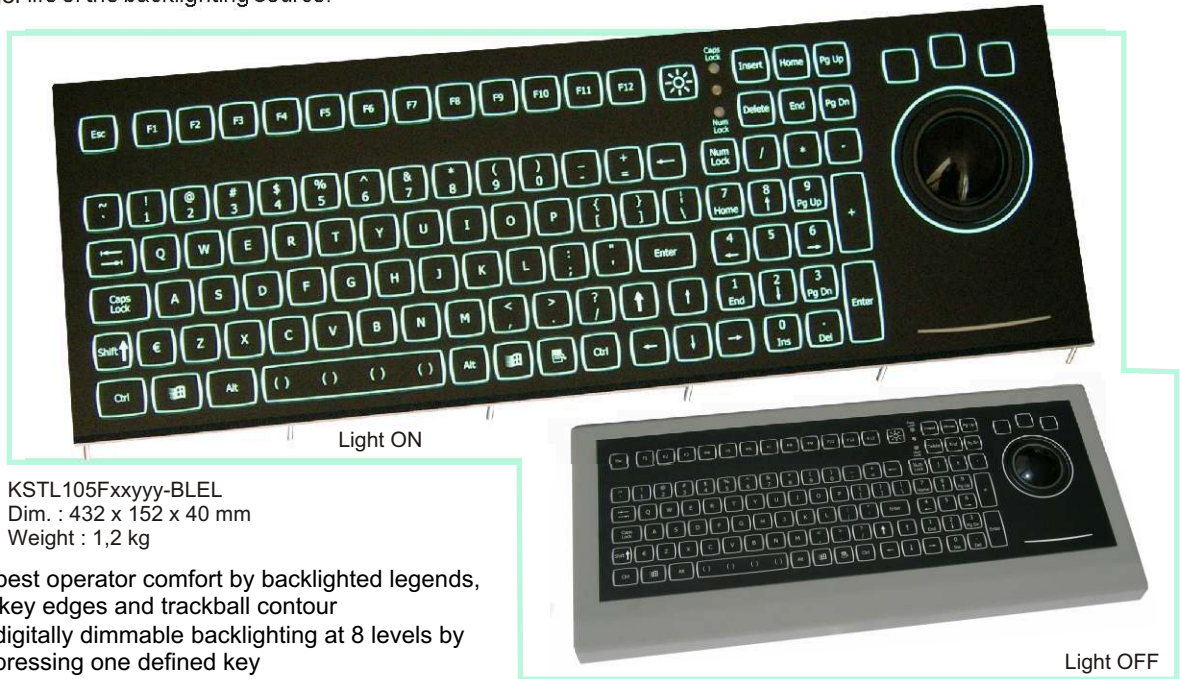# *"NIGHT VISION"* © KEYBOARD & TRACKBALL

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 conditons 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 backlighted 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 warant for a longer life of the backlighting source.

Light ON

KSTL105Fxxyyy-BLEL
Dim. : 432 x 152 x 40 mm
Weight : 1,2 kg

best operator comfort by backlighted 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

Light OFF

KSTL105Sxxyyy-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/m²) is more than 20.000 hours.

• ORDERING INFO

KSTL105F xx yyy-BLEL	Panel mount version
KSTL105S xx yyy-BLEL	Enclosed version

xx = layout version :　　　yyy = protocol output : PS2 or USB
1 = Qwerty layout
49 = German Qwertz layout

OPTIONAL

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

ADT1512-T3

CFR-02

"NIGHT VISION" ☾ KEYBOARD & TRACKBALL

• 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)
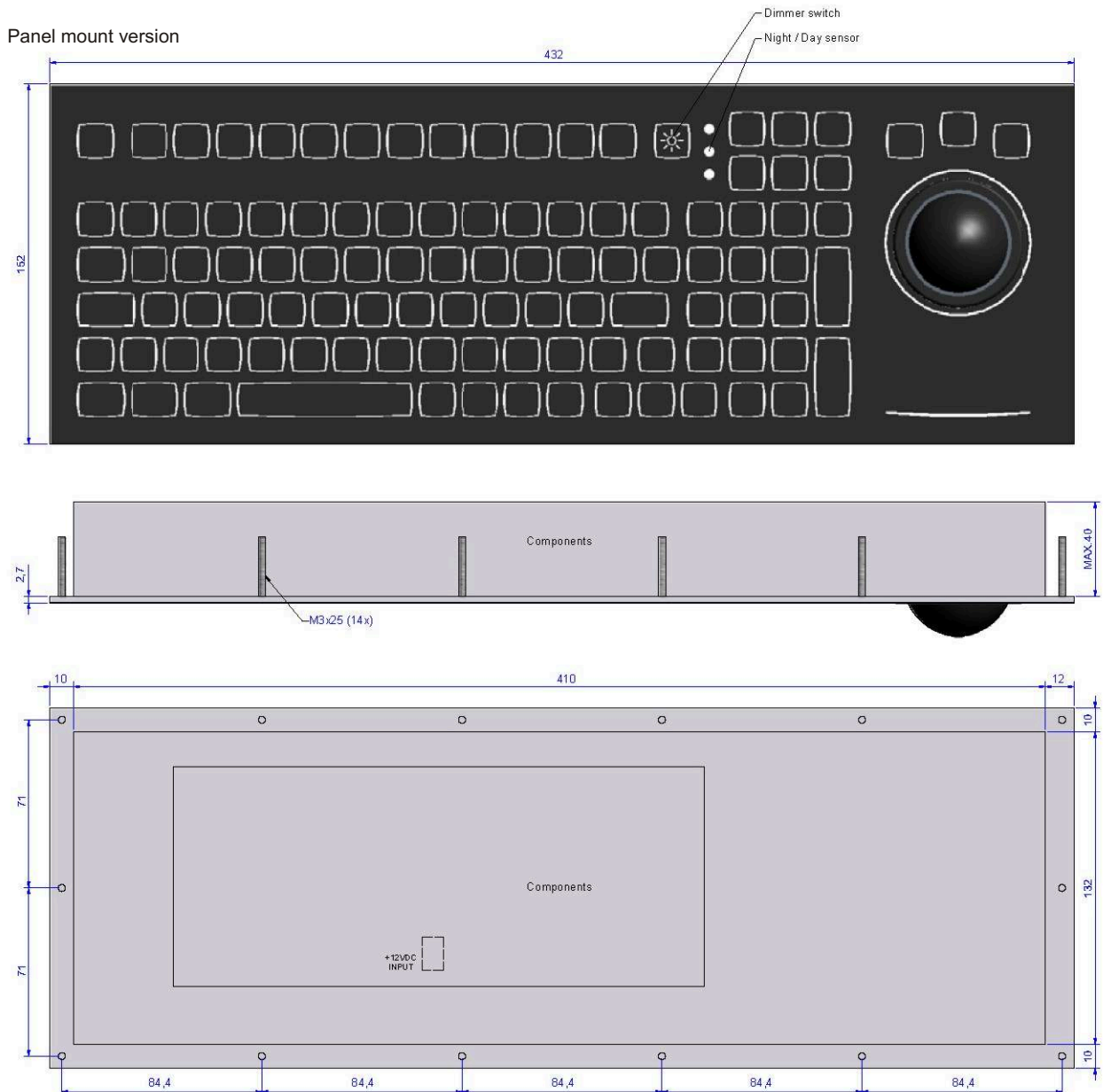
ENVIRONMENTAL
operating temperature :
 0°C to +55°C
sealing panel mount keyboard :
 IP67 frontal; trackball IP65 static
sealing enclosed keyboard :
 IP65 static

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

Panel mount version

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

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

NSI bvba, Haakstraat 1A, B-3740 Bilzen, Belgium
Tel. : ++32 (0) 89 51 90 00   Website : www.nsi-be.com
Fax : ++32 (0) 89 51 90 09   E-mail : info@nsi-be.com

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