

Product Change Notice – PCN2502-1

Keyboard Division

Issue Date: 4-07-25

Product Change Notice #: PCN2502-1

Change Title: PSoC keyboard controller upgrade for KSML92, KSTL92 keyboard range.

Change Type:

Assurance of supply – current PSoC keyboard controller scheduled for end of life and will be discontinued.

Parts affected:

NSI PART NUMBER	DESCRIPTION
KSML92YXXXX-Z-MC1	Marine keyboard with 50mm trackball (Variant identification below table)
KSML92YXXXXUSB-ZLED	Short travel keyboard with 50mm trackball (Variant identification below table)
KSTL92F49-XXXX	Marine keyboard with 50mm trackball (Variant identification below table)

Y: mounting method.

- Y = F panel mount keyboard
- Y = B panel mount keyboard with edge protection
- Y = S enclosed keyboard

XXXX: 4 digit code (0-9) indicating keyboard variants which differ in appearance, without changing the mechanical or electrical features or dimensions.

- 0XXX = standard keyboard with various country layouts, e.g.:
 0001 = US qwerty layout
 0032 = Belgian Azerty layout
- 1XXX-9XXX = other keyboard variants: custom front, carrier or firmware, custom colors.

Z: color code for the LED.

Z = W for white LEDs
 Z = R for red LEDs
 Z = G for green LEDs
 Z = B for blue LEDs

Z = Y for yellow LEDs
 Z = C for cyan LEDs
 Z = M for magenta LEDs

MC1 = USB output protocol

Change Description:

The current PSoC keyboard controller will be replaced by an upgraded PSoC version of the same manufacturer.

Reason for Change:

The change has been made for assurance of supply – the current PSoC keyboard controller is scheduled for end of life and will be discontinued by the manufacturer.

Effect of Change on Form, Fit, Function, Quality, or Reliability:

Implementation of the PSoC keyboard controller will influence the keyboard specification with respect to form, fit and function;

- Function – See below
- Form – See below
- Fit – See below

Change to Function:

The redesigned PCB, including the upgraded PSoC keyboard controller and new firmware, now features a USB hub and USB B connector for extra connectivity. The upgraded PSoC keyboard controller also adds the functionality to upload new firmware over USB. Other features of the new keyboard remain identical to its predecessor's.

Change to Form:

The form at the frontside remains identical. Due to the addition of a USB B connector on the PCB a protection cover with separate USB B connector isn't necessary anymore for the panel mount keyboard. The protection cover is replaced with a backplate on the new panel mount keyboard. The USB output cable can be plugged into the PCB directly.

There is no change to form of the enclosed keyboard version.

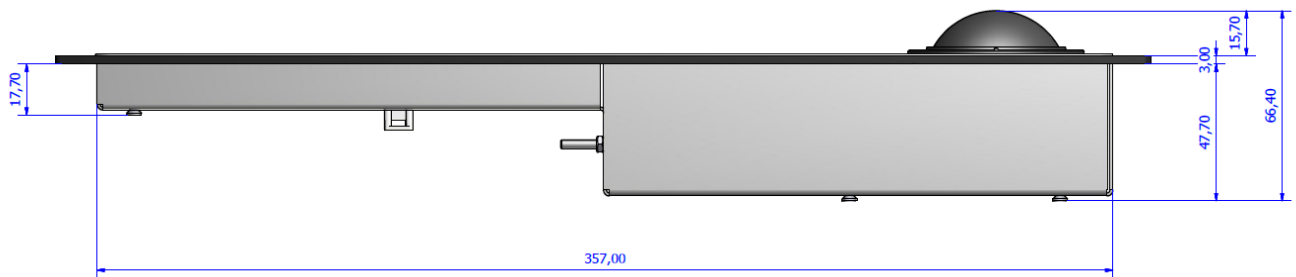
Change to Fit:

The mounting hole dimensions of the panel mount keyboard remain identical. Because the protection cover is replaced with a backplate on the new panel mount keyboard the installation depth changes as seen in the drawings below.

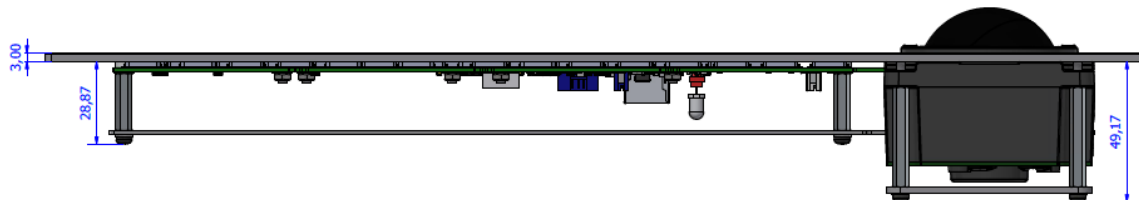
The installation depth increases from 47.7 mm on the current design to 49.17 mm (including fasteners) on the new panel mount keyboard.

There is no change to fit of the enclosed keyboard version.

Current panel mount keyboard (Discontinued):



New panel mount keyboard:



Effective Date of Change:

All keyboards will be supplied with the new PSoC keyboard controller starting from week 34 2025.

How Do I Track the Change?

The change can be tracked via the serial number indicated on the serial label which can be found adhered to all keyboards. The serial number has the following format: yyyy.12345.xxx
The middle part of the serial number is a 5-digit code identifying the production batch.
All production batch numbers higher than 40955 are produced with the upgraded PSoC keyboard controller with the exception of production batches mentioned in the table below.

40939				
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The production batches in the table below are also produced with the upgraded PSoC keyboard controller.

40626	40627	40747	40748	40787	40797	40804	40805	40806
40807	40808	40809	40810	40828	40863	40864	40865	40920
40940	40941	40942	40943	40944	40945	40946		

Qualification Data:

Appropriate quality and reliability testing has been performed on representative products to ensure performance is maintained in accordance with NSI quality and reliability standards. The redesigned PCB, including the upgraded PSoC keyboard controller and new firmware, has been assessed and complies with the IEC60945 maritime standard and the IACS E10 test specification for type approval.

For further information regarding qualification data please contact NSI or an appropriate sales representative.

Notification Response:

No response to this notification is required. Requests for additional data or support should be made within 30 days of notification. Please contact your NSI representative to obtain qualification samples.

DOCUMENT HISTORY

Version	Date	Author	Remarks
1	4/07/2025	AP	Document released