

Product Change Notice – PCN2605-1

Trackball & Keyboard Division

Issue Date: 22-06-26

Product Change Notice #: PCN2605-1

Change Title: Design changes implemented on E38-76A11D trackball.

Change Type:

- Changes have been implemented to the trackball / scroll wheel ranges to provide assurance of supply. The below components have been discontinued by the manufacturers and will be replaced by suitable alternatives.
 - Main microcontroller (MCU)
 - Scroll wheel hall effect sensor used for encoding the scroll wheel movement.
- In addition, this upgrade will include the latest Type 2 scroll wheel – see below for details.

Parts affected:

NSI PART NUMBER	DESCRIPTION
E38-76A11D	Panel mount (top only) ergonomical trackball with 38mm ball and scroll wheel. black with grey ball. USB connection
KSGE92YXXXX-Z-MC1	IEC60945 certified short travel keyboard with backlighting and E38 ergonomical trackball, 92 keys, IP65, USB (Variant identification below table)
KSGE92YXXXX-ZLED	Short travel keyboard with backlighting and E38 ergonomical trackball, 92 keys, IP65, USB (Variant identification below table)
KSGE103YXXXX-Z-MC1	IEC60945 certified short travel keyboard with backlighting and E38 ergonomical trackball, 103 keys, IP65, USB (Variant identification below table)
KSGE103YXXXX-ZLED	Short travel keyboard with backlighting and E38 ergonomical trackball, 103 keys, IP65, USB (Variant identification below table)
RKTE85YXXXX-Z-MC1	IEC60945 certified silicone rubber compact keyboard with backlighting and E38 ergonomical trackball, USB (Variant identification below table)
RKTE85YXXXX-ZLED	Silicone rubber compact keyboard with backlighting and E38 ergonomical trackball, USB (Variant identification below table)
RKTE85YXXXX	Silicone rubber compact keyboard without backlighting, with E38 ergonomical trackball, USB (Variant identification below table)
RKTE106YXXXX-Z-MC1	IEC60945 certified silicone rubber keyboard with backlighting and E38 ergonomical trackball, USB (Variant identification below table)
RKTE106YXXXX-ZLED	Silicone rubber keyboard with backlighting and E38 ergonomical trackball, USB (Variant identification below table)

TBE38Y0-XXXX-MCW	IEC60945 certified ergonomic trackball unit with 38mm ball and scroll wheel. (Variant identification below table)
TBE38Y0-XXXX	Industrial ergonomic trackball unit with 38mm ball and scroll wheel. (Variant identification below table)
TBE38Y0	Industrial ergonomic trackball unit with 38mm ball and scroll wheel. (Variant identification below table)

Y: mounting method.

- Y = F panel mount keyboard with studs
- Y = B panel mount keyboard with edge protection
- Y = N panel mount keyboard with mounting holes
- 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

Z = N for NO backlighting

W: output protocol

- W=1 USB only
- W=2 PS/2 only
- W=3 USB & PS/2 autodetect

MC1 = USB output protocol

Change Description:

- The trackball / scroll wheel device has been redesigned to use a new microcontroller and hall effect sensor. The replacement parts are already used and well established in other input devices within the NSI / Cursor Controls range.
- The updated design will also include the latest Type 2 scroll wheel. This upgrade includes:
 - The addition of a silicone rubber tyre
 - A quieter detent mechanism

The Type 2 scroll wheel has been in use in the NSI / Cursor Controls Ltd range for many years.

Reason for Change:

The following components have been discontinued.

Main Microcontroller (MCU):

- Discontinued: Infineon Encore 2 CY7C638XX



- Replacement: Microchip PIC32MM. This microcontroller is already well established within our product range and has been in use for over 6 years.



Hall Effect Sensor:

- Discontinued: AMS Osram AS5130



- Replacement: Infineon TLI493D



Type 2 Scroll Wheel:

The change to the Type 2 scroll wheel is considered an upgrade and provides an improved user experience.

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

The change will not affect fit, form or function of the device.

Effective Date of Change:

The release date for upgraded devices will not be specified unless requested by the customer. This is due to the time required to implement, verify, and exhaust the stock of the existing components. It is anticipated that most devices will feature the new components by mid-2026. Please consult the NSI Sales team if you require additional information relating to the transition schedule for specific devices. Last time buy options may be possible but shall be limited based on component availability.

How Do I Track the Change?

The E38-76A11D trackball device revision has changed from A to B. This revision is visible on the E38-76A11D trackball product label.

The revisions of the keyboards and trackball units containing the E38-76A11D trackball device will remain the same based on the specification remaining unchanged. The change will be tracked internally at NSI for traceability purposes. Revision changes to specific devices can be accommodated upon request from the customer.

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 trackball 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	22/06/2026	AP	Document released