

## Product Change Notice – PCN2402-1

### Keyboard Division

**Issue Date:** 20-12-24

**Product Change Notice #:** PCN2402-1

**Change Title:** Rugged keyboard output connector change for MKB104 keyboard range.

**Change Type:**

Internal improvement - The new output connector has an improved appearance and better long-term availability. The optional mating cable provides better sealing. The new output connector on the MKB104 keyboard range brings the output connector into line with our other rugged keyboard ranges.

**Parts affected:**

NSI PART NUMBER	DESCRIPTION
MKB104NXXXXUSB	Full Travel rugged keyboard, 104 keys, panel mount, white backlit key characters. (Variant identification below table)
MKB104SXXXXUSB	Full Travel rugged keyboard, 104 keys, Desktop version, white backlit key characters. (Variant identification below table)

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.

**Change Description:**

The current 7 way MIL-DTL-26482 connector, 62GB12E1007PN, will be replaced by a 6 way MIL-DTL-38999 Series III circular connector, TVP00ZN-09-35PN.

**Reason for Change:**

Internal improvement - The new output connector has an improved appearance and better long-term availability. The optional mating cable provides better sealing. The new output connector on the MKB104 keyboard range brings the output connector into line with our other rugged keyboard ranges.

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

Implementation of the connector change will influence the keyboard specification with respect to fit;

- Fit – see below
- Form – No change
- Function – No change

**Change to Fit:**

The output connections of both connector types are different.

**Details current output connector:**

Description : 7 way MIL-DTL-26482 circular connector  
 Manufacturer : Amphenol (or equivalent)  
 Part No : 62GB12E1007PN  
 Mating Connector : 62GB-16F10-07SN or equivalent  
 Optional cable: A029-80-01

PIN	USB OUTPUT
A	D+
B	EARTH
C	Do not connect
D	Do not connect
E	0V
F	D-
G	VCC



**Details new output connector:**

Description : 6 way MIL-DTL-38999 Series III circular connector  
 Manufacturer : Amphenol (or equivalent)  
 Part No : TVP00ZN-09-35PN  
 Mating Connector : TV06ZN-09-35SN or equivalent  
 Optional cable: A029-80-03

PIN	USB OUTPUT
1	VCC
2	D-
3	D+
4	0V
5	Do not connect
6	EARTH



**Effective Date of Change:**

All keyboards ordered starting from 2025 will be delivered with the new connector.

**How Do I Track the Change?**

The change can be tracked via the NSI revision symbol indicated on the serial label which can be found adhered to all keyboards.

When no revision is mentioned, the keyboard contains the current connector. Revision A indicates the keyboard contains the new connector.



**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. MIL-STD-461G and MIL-STD-810G testing was conducted with the new connector type. 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	24/12/2024	AP+MC	Document released