



# Product Change Notification

PCN13-11-MDS  
MDS Series

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**C&K Components**

15 Riverdale Ave, Newton MA 02458  
Tel: 617.969.3700 [www.ck-components.com](http://www.ck-components.com)

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## Document revision

Revision	Date	Description	Author
A	9/19/2013	MDS changes	Kyle Peterson

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## 1. Purpose

The purpose of this notification is to explain the changes to the MDS series and updates to the datasheets and drawings.

## 2. Change definition

Due to production, tooling condition, and cost issues, the manufacture of the MDS series moved from the South Korea facility to one in Taiwan in mid 2012. At that time, due to the need for replacement tooling; the opportunity to update the MDS switch design was taken in order to improve the mechanical/electrical life of the switch. The retooling effort was made with the intended goal of maintaining Form/Fit/Function. Not all of these goals were met, although the goals for increasing the mechanical/electrical life of the switch were met.

### 2.1 Overview

What changed in June 2012:

- Manufacturing Site: South Korea to Taiwan.
- Plastic changed from Nylon 4/6 to Nylon 9T for better temperature robustness
- Tooling/design Cover/Base/Lever/Plunger: To accommodate Material Change
  - The cross-section of the plunger was also changed from being rectangular to round to eliminate friction points.
- Internal Contact Design: To improve life
  - Switch Life - Improved from 10,000 Cycles To: 30,000 Cycles
  - Contact rating increased from: 300mA @ 6VDC, To: 300mA @ 30VDC.
  - Contact Resistance expectation improved from: 200mΩ Max. Initial, To: 100mΩ Max. Initial
- Termination tooling: To support change in contact design
  - Terminal length for the longer PC mount options also increased slightly.
    1. PL Terminal option length changed from 4.6mm to 5.3mm
    2. RL & LL Terminal option lengths changed from 2.68mm to 3.1mm
- Switch Characteristics:
  - Free Position: from 9.6mm Max to 8mm Max
  - Operate Position: from 6.5 ~ 7.4mm to 6.2 ~ 7.2mm
  - Operating Force: From 65 grams max to 50 grams Max

Subsequent Changes:

- As a continuous improvement activity, the cover latching bar thickness was increased from 0.45mm to 0.75mm to enhance robustness – implemented 02-Jan-2013.
- As a continuous improvement activity, the knock-out pinning of the lever mold was changed (from 1 to 2) to enhance the lever robustness under overload / over travel conditions. Implemented February 2013.

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**3. Support**

Please contact Customer Service or your local sales representative with any further questions.

Sincerely,



Kyle Peterson

Worldwide Product Line Manager