

# Change Notice

## IS Series

### Life of OLED Displays Now 30,000 Hours

Type of Change:

- Engineering     Part Number  
 Product         Appearance



The life of the OLED displays for the IS series SmartSwitch pushbuttons will be doubled from 15,000 to 30,000 hours.

At the same time, the power consumption of the OLED displays has been reduced by 30%.

**This change will affect the following product:**

**ISC15ANP4** OLED 64 x 48 pushbutton

Change of initialization parameters required; no change to outer dimensions

| Operating Life (OLED Display)                              |   |
|--|---|
| Before Change  | After Change  |
| 15,000 hours @ 100cd/m <sup>2</sup> based on 40% pixels on | 30,000 hours @ 100cd/m <sup>2</sup> based on 40% pixels on<br>60,000 hours @ 50cd/m <sup>2</sup> based on 40% pixels on<br>(candela per square meter) |

| Power Consumption                                    |                  | (Temperature at 25°C, V <sub>DD</sub> = 2.8V, V <sub>CC</sub> = 16.0V) |      |              |      | Unit |
|--|------------------|--|------|--------------|------|------|
| Items  | Symbols          | Before Change  |      | After Change |      |      |
|  |                  | typ.   | max. | typ.         | max. |      |
| All-Pixels-On Mode<br>*Drive System Power Current    | I <sub>CC1</sub> | 5.5  | 7.0  | 3.8          | 4.6  | mA   |
| All-Pixels-On Mode<br>*Logic/IF System Power Current | I <sub>DD1</sub> | 0.16   | 0.2  | 0.16         | 0.19 | mA   |

( ) value for display module

| Optical Characteristics |     |               | (Temperature at 25°C, Initial Value: 87 x 0F) |      |              |         |      |
|-------------------------|-----|---------------|---|------|--------------|---------|------|
| Items                   |     | Before Change |   |      | After Change |         |      |
|                         |     | Min           | Typical                                       | Max  | Min          | Typical | Max  |
| White Color Coordinate  | (x) | 0.27          | 0.31  | 0.35 | 0.26         | 0.30    | 0.34 |
|                         | (y) | 0.30          | 0.35  | 0.40 | 0.32         | 0.37    | 0.42 |
| Red Color Coordinate    | (x) | 0.60          | 0.64  | 0.68 | 0.63         | 0.67    | 0.71 |
|                         | (y) | 0.31          | 0.35  | 0.39 | 0.29         | 0.33    | 0.37 |
| Green Color Coordinate  | (x) | 0.26          | 0.30  | 0.34 | 0.19         | 0.23    | 0.27 |
|                         | (y) | 0.59          | 0.63  | 0.67 | 0.61         | 0.65    | 0.69 |
| Blue Color Coordinate   | (x) | 0.10          | 0.14  | 0.18 | 0.10         | 0.14    | 0.18 |
|                         | (y) | 0.12          | 0.18  | 0.24 | 0.14         | 0.20    | 0.26 |

#### Availability

July 2010

**NKK**  
SWITCHES

www.nkkswitches.com  
1.877.2BUYNKK (228.9655)

7850 East Gelding Drive • Scottsdale, AZ 85260  
Telephone 480.991.0942 • Fax 480.998.1435