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SmartSwitch Overview



NKK
SWITCHES

Introduction

Purpose:

- Demonstrate the benefits of using NKK's SmartSwitch OLED and LCD programmable devices.

Objective:

- Switches that make you work smarter
- Versatile – Efficient – Innovative
- Significant Gains in Cost Reduction and Maintenance Efficiency
- The Right Switch for You
- Development Kits for Rapid Prototyping
- Why Partner with NKK Switches

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Switches that Make you Smarter

The NKK SmartSwitch provides designers with enhanced decision-making capabilities by upgrading the ease-of-use for operators giving more accurate guidance to complete tasks.

The SmartSwitch increases efficiency by reducing the time to train operators while delivering a significant reduction or elimination in operator errors.

NKK's programmable OLED has a wide viewing angle and can be seen from a distance allowing operators to quickly see any changes to their critical environments.



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Versatile – Efficient – Innovative

“Using NKK’s SmartSwitch, a Power Plant managed a control panel with 1,600 different traditional switches. The control panel was redesigned to incorporate less than 65 LCD programmable devices; as a result, the power plant operator was able to access the same 1,600 functions greatly reducing panel space and hardware costs.”

“When Micro Systems redesigned a portable command and control system, we knew the system would also have to be extremely durable and live up to the standards of our customers – there is no tolerance for equipment malfunction. Competitive solutions weren’t a good fit as we felt the quality was not suited for our applications. NKK had the best quality solution.”

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Significant Gains in Cost Reduction and Maintenance Efficiency

- Simplify complex decision making environments
- Increase and change panel functions instantly
- Achieve innovative designs with fewer devices and less inventory
- Reduced training time and operator errors
- Programmable for multiple languages



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The Right Switch for You

OLED ROCKER		<ul style="list-style-type: none"> • IP64 Dust and Water Protection • SP3T Momentary • Monochrome Long Life Display • Snap-In Mount • 180° Viewing Angle • Controller on Board/SPI 	37.9 x 50.7 x 5.6mm	<p>Display Life: 52,000 hrs. @ 100cd/m² with 30% pixels on</p> <p>Operating Temperature: -20°C to +70°C</p> <p>Mechanical/Electrical Life: 1,000,000 actuations min.</p>
OLED PUSHBUTTON		<ul style="list-style-type: none"> • Sharp Display of Text, Graphics and Video • Exceptional Contrast • Video Displays at 100+ Frames/Sec • 180° Viewing Angle • Controller on Board/SPI • Low Power Consumption • 3D Compatible 	<p>Pushbutton: 23.13 x 20.59 x 23mm</p> <p>Display: 17.8 x 17.2 x 9.9mm</p>	<p>Display Life: 60,000 hrs. @ 50cd/m² with 40% pixels on</p> <p>Operating Temperature: -20°C to +70°C</p> <p>Mechanical/Electrical Life: 3,000,000 actuations min.</p>
LCD 64 x 32		<ul style="list-style-type: none"> • Available in 2 Sizes (Compact 28% Smaller) • RGB LED Backlight • Controller on Board/SPI • Low Power Consumption • 3D Compatible • Sunlight Readable 	<p>Pushbutton: 23.13 x 20.59 x 23mm</p> <p>Compact Pushbutton: 9 x 18 x 23mm</p> <p>Display: 17.8 x 17.2 x 9.9mm</p>	<p>Operating Temperature: -15°C to +50°C</p> <p>Mechanical/Electrical Life: 3,000,000 actuations min. 1,000,000 actuations min. (Compact)</p>
LCD 36 x 24		<ul style="list-style-type: none"> • Single, Bicolor or RGB Backlight • Available in 2 Sizes (Compact 28% Smaller) • LCD Driver on Board • 3D Compatible • Sunlight Readable 	<p>Pushbutton: 23.13 x 20.59 x 23mm</p> <p>Compact Pushbutton: 9 x 18 x 23mm</p> <p>Display: 17.8 x 17.2 x 9.9mm</p>	<p>Operating Temperature: -20°C to +60°C</p> <p>Mechanical/Electrical Life: 1,000,000 actuations min.</p>

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Development Kits for Rapid Prototyping

- Pre-programmed or user-defined demos
- Display custom programs and graphics (software provided)
- Easy creation, testing and display for rapid prototype designs
- Speed up design process
- RS232 communication
- Battery or AC line power

DISPLAY	PIXELS	DESCRIPTION	DEV KIT NUMBER
OLED	96 x 64	Rocker	IS-DEV Kit-8
OLED	64 x 48	Pushbutton	IS-DEV Kit-7
OLED	52 x 36	Display	IS-DEV Kit-7D
LCD	64 x 32	Pushbutton	IS-DEV Kit-6
LCD	64 x 32	Compact Pushbutton	IS-DEV Kit-6C
LCD	64 x 32	Display	IS-DEV Kit-6D
LCD	36 x 24	Pushbutton	IS-DEV Kit-5
LCD	36 x 24	Compact Pushbutton	IS-DEV Kit-5C
LCD	36 x 24	Display	IS-DEV Kit-5D



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Why Partner with NKK Switches

With more than a half of a century of passion for innovation, NKK has continued to elevate the standard for switch solutions while maintaining an unwavering emphasis on quality, stability and reliability.

- Switch Versatility
- Product Reliability
- Industry-Leading Engineering Support
- Dedicated to Innovation

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The logo for NKK Switches, featuring the letters "NKK" in a bold, black, sans-serif font, with the word "SWITCHES" in a smaller, black, sans-serif font directly below it. The logo is positioned in the bottom right corner of the slide, partially overlaid by a decorative graphic of several thin, curved, overlapping lines in shades of red and black that sweep across the bottom right corner.

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Thank you!

Have questions? Contact NKK Switches at
877.2BUYNKK

NKK also provides FREE switch samples and online 3D
CAD Models. Got to www.nkkswitches.com to get yours
today!



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