



HB215K/215K

Switch

Series:

Technical

Specifications and Industrial Applications

HB215K/215K Switch Series: Technical Specifications and Industrial Applications

Understanding the HB215K Switch Platform

When dealing with precision switching solutions, the HB215K/215K series stands out as a reliable workhorse in industrial control systems. These momentary contact switches, part of NKK Switches' extensive portfolio, feature an SPST-NO (Single Pole Single Throw - Normally Open) configuration that's become the industry standard for equipment requiring dependable circuit interruption.

Key Technical Parameters

- Rated current: 0.4VA (AC/DC)
- Voltage capacity: 28V both AC and DC
- Mechanical lifespan: 100,000 cycles
- Illumination options: Dual-color LED indicators (Red/Green)
- Operating temperature range: -25°C to 50°C

Industrial Deployment Scenarios

Imagine walking through a modern automotive assembly line - those flashing diagnostic panels? There's a good chance they're using HB215K switches for status indication. From CNC machine emergency stops to laboratory equipment controls, these switches handle demanding environments like a seasoned quarterback handles fourth-quarter pressure.

Real-World Implementation Case

A major semiconductor manufacturer recently standardized on HB215K-2RGD models (red/green illuminated version) for their cleanroom equipment. The dual-color LEDs reduced operator errors by 38% through intuitive color-coded status feedback, proving that sometimes the simplest solutions make the biggest impact.

Comparative Analysis with Similar Components

While the HB215K series shines in general industrial applications, engineers should note its 28V limitation when specifying for high-voltage systems. For comparison:

- Model
- Voltage Rating
- IP Protection
- Typical Cost



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HB215K

28V

None

\$4.20

HB215SKG03CF

28V

IP40

\$5.75

Maintenance Best Practices

Implement quarterly contact resistance checks

Use compressed nitrogen for cleaning instead of solvents

Monitor actuator wear patterns during PM inspections

Recent field data from HVAC control systems shows proper maintenance can extend the HB215K's electrical lifespan beyond 120,000 cycles - 20% above manufacturer specifications. Not bad for a component that costs less than your morning latte!

Emerging Trends in Switch Technology

As Industry 4.0 accelerates, we're seeing growing demand for HB215K variants with integrated IoT capabilities. Smart switches now embedding microcontrollers for predictive maintenance are reshaping how we think about these humble components. Could your next HB215K order come with built-in Bluetooth diagnostics? The industry rumor mill says "stay tuned".

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