



Long Travel Keyboard

-Product Overview:

The 24 keys Numeric Long Travel Keyboard is a robust, high-quality 24-button keypad designed for industrial and commercial applications. This keypad is built for use in harsh environments, offering excellent durability and reliability. It is ideally suited for use in control systems, machinery interfaces, and other input devices where user interaction is required.

-Key Features:

- **24 Button Matrix:** Provides 24 programmable keys arranged in a matrix format.
- **Durable Design:** Built for rugged environments, the S24A can withstand frequent use.
- **Tactile Feedback:** Offers tactile feedback for each key press, ensuring user comfort and reducing error rates.
- **Weather Resistant:** Designed to resist moisture and dust ingress.
- **Customizable Key caps:** Optional customization of key legends and symbols to match specific applications.
- **Backlighting Option:** Available with LED backlighting for low-light operation (optional model).
- **Mounting Options:** Surface and panel mount options available.
- **Communication Interface:** Can be connected to control systems via standard serial or USB interfaces.

-Electrical Specifications:

- Operating Voltage: 5V DC (standard), customizable for specific voltage requirements.
- Current Consumption: $\leq 100\text{mA}$ (with backlight); $\leq 20\text{mA}$ (without backlight).
- Key Switch Rating: 1,000,000 actuations per key.
- Key Contact Resistance: $\leq 500\text{ m}\Omega$.
- Operating Temperature Range: -20°C to 70°C .
- Storage Temperature Range: -40°C to 85°C .
- Protection Rating: IP65 (dustproof and water-resistant).
- Connector Type: Standard 4-pin or 6-pin Molex or customizable.

-Mechanical Specifications:

- Dimensions: 120mm x 80mm x 35mm (L x W x H).
- Button Material: High-impact ABS or polycarbonate.
- Housing Material: Aluminum alloy or stainless steel (customizable).
- Actuation Force: 150g \pm 20g.
- Actuation Travel Distance: 0.4mm.
- Weight: 200g (without mounting hardware).

-Certifications:

- Compliance: CE, FCC, RoHS, and REACH.
- EMI/EMC Compliance: Designed to meet international standards for electromagnetic interference and compatibility.

-Applications:

- Industrial machinery controls
- ATM and kiosk terminals
- Security and access control systems
- Medical device interfaces
- Transportation and ticketing machines