



Rugged Membrane Keypad for Defense Applications

P/N.KIPL 23-5976

Key Highlight

- Designed for defense and rugged industrial applications
- Long life with up to 2 million key operations
- Stable performance across wide temperature and humidity ranges
- IP67-ready design for dust and water resistance

Production Information

The Rugged Membrane Keypad (MPN: 23-5976) from Keetronics is engineered to meet the demanding requirements of defense and industrial systems. Designed and manufactured by a team with over 32+ years of experience in advanced input device solutions, this keypad delivers consistent performance, durability, and reliability in mission-critical environments.

Operating on 3.3V or 5V DC, the keypad supports up to 2 million key operations and features precise actuation force for accurate and comfortable user input. It is built to withstand wide temperature ranges and high humidity levels, making it suitable for battlefield electronics, rugged equipment, and harsh outdoor installations.

With a compact tail length and tight dimensional tolerances, the keypad integrates easily into control panels and user interface assemblies. The design supports IP67 protection (to be validated by the customer), ensuring resistance to dust and water ingress in demanding operating conditions.

Technical Specifications

Operating Voltage	3.3V / 5V DC
Contact Resistance	50 Ohms
Contact Bounce	20 ms
Life Expectancy	2 million operations
Actuation Force	250–300 grams
Dimensional Tolerance	±0.2 mm
Tail Length	135 mm
Back Support	Aluminum reinforcement plate
Operating Temperature	–20°C to +70°C
Humidity Resistance	95% RH at 40°C for 48 hours
Degree of Protection	IP67 (test to be conducted by customer)
Mounting	Adhesive-based panel mounting with defined pasting instructions