

KIF6000-NX Industrial Keyboard

NEMA 4X (IP66) INDUSTRIAL KEYBOARD WITH INDUSTRIAL MOUSE™



· Shown above KIF64U4-N2 Industrial Keyboard

KIF6000-NX STANDARD FEATURES

- NEMA 4 / 4X (IP66) sealed
- Standard Operating Temperature -40°C to 80°C (-40°F to 176°F)
- High reliability and durability (MTBF 100,000+ hours, 10,000,000+ deflections)
- Key contacts are comprised of a thick layer of hard gold on PCB and hard carbon pills molded into the Silcone Rubber Elastomer
- 2mm Key travel with excellent tactile feedback to operator
- Thermally infused silicone ink into the Elastomer ensures long term readability
- SynProof[™] coated Elastomer protects from penetration of harsh oils and chemicals (optional Parylene coating)
- A thick 0.06" PCB ensures rigidity under pressure and protection of electronic components
- PCB layout offers EMI/RFI shielding and Ground Connection (ESD)
- Metal Enclosure is passivated Stainless Steel or iridited Aluminum
- Stainless Steel Threaded Inserts on bottom plate for surface mounting
- 9.5 foot USB Cable with Strain Relief to prevent cable damage

KIF6000-NX USB INDUSTRIAL KEYBOARD

CTI's KIF6000-Nx Plug-n-Play Industrial Keyboards are comprised of a durable Printed Circuit Board (PCB), a rubber silicone Elastomer, an Industrial Mouse™ (Joystick Cursor Controller), a metal enclosure, and a USB cable. The PCB is designed for protection against electromagnetic and radio frequency interference as well as electro static discharges. Upon the PCB is a layer of hard plated gold used for the switching contacts of the Keys. Molded under the Key of the Elastomer are four hard carbon pill contacts which provide reliability and durability. This Elastomer features a time tested durometer that provides an ergonomic key stroke with excellent tactile feedback. It also includes a molded special O-Ring which compresses to ensure a watertight seal. In addition, the Elastomer has been treated with a thermally infused silicone ink to create the QWERTY legend and then sealed through CTIs' special formulated flexible polyurethane coating process (Syn-Proof™). Ensuring a watertight seal, these keyboards are encased in the finest grade stainless steel which is passivated or a painted aluminum which is iridited.

The NEMA 4 / 4X (IP66) sealed Industrial Keyboard is most suitable for critical applications requiring high durability (10M+ cycles), high reliability (99.999% availability), and/or ensured performance under extreme operating temperatures, exposure to harsh climate conditions, and/or solid and liquid contaminants. It's well protected against high vibration, EMI/RFI signals, bio-hazardous agents, and cleaning solvents. This compact keyboard with its stainless steel threaded inserts on the bottom plate allows for affixing to a panel or desktop. Finally, for those low level lighting situations, the backlit KIF6000-Bx Series offers ten levels of illumination.

These Plug-n-Play Industrial Keyboards are offered to the Systems Integrator or Commercial End User with an assurance of high reliability, long term durability, and performance under harsh conditions. Designed for limited space applications these rugged compact keyboards are an excellent solution for military, security, commercial fleet vehicles, marine vessels, manufacturing facilities, etc. The combined features of the Plug-n-Play Industrial Keyboards meet and/or exceed industry standards specifications.

KIF6000-NX MANUFACTURING OPTIONS

Wx

Shielded USB Bulkhead Cable (1 Foot to 5 Feet)

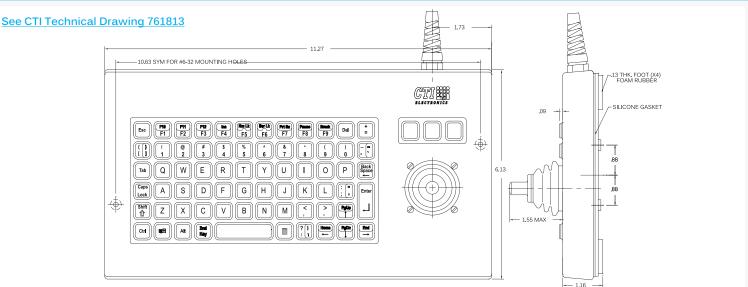
*For complete ordering information please refer to Technical Drawings

KIF6000-NX TECHNICAL DRAWINGS

761813

KIF6000-NX Plug-n-Play Industrial Keyboard with Industrial Mouse™

KIF6000-NX INDUSTRIAL KEYBOARD TECHNICAL DRAWING



F-SERIES JOYSTICK PATENTS

U.S.A. PATENTS 4,825,157 | 5,376,946 | 5,532,476

Product Data Sheet 820195



KIF6000-NX Industrial Keyboard NEMA 4X (IP66) INDUSTRIAL KEYBOARD WITH INDUSTRIAL MOUSE™

| RUNICS ate of ELECTRO SWITCH | | NEMA 4X (| 1P66) INDUSTRI | AL KEYBOARD | WITH INDUSTRIAL M | |
|---------------------------------|------------------------|---|------------------------------------|--|-------------------------------------|--|
| | COMPACT INDUST | RIAL KEYBOARD CO | MPARISON CHAR | RT | | |
| | KI6000 | KIF6000 | KIO6000 | KIO7000 | KIT6000 | |
| Dimensions (Inches) | 8.70" x 6.13" x 1.33" | 11.27" x 6.13" x 1.57" | 8.70" x 6.13" x 1.33" | 12.33" x 6.13" x 3 | | |
| Dimensions (mm) | 221 x 155.7 x 33.8mm | 286.3 x 155.7 x 39.9mm | 221 x 155.7 x 33.8mm | | | |
| ainless Steel Oz (g) | 40 Oz (1134g) | 55 Oz (1600g) | 40 Oz (1134g) | 59 Oz (1700g | | |
| Aluminum Oz (g) | 21.7 Oz (610g) | 32 Oz (900g) | 22.5 Oz (638g) | 35 Oz (1000g | | |
| Mouse Pointer | (0) | Industrial Mouse™ | OrbitalMouse® | OrbitalMouse | | |
| Numeric Keypad | | | Yes (Non-Backlit) | Yes | | |
| Function Keys | 12 | 12 | 12 | 12 | 12 | |
| _anguage Options | | US QWERTY (Standard) S | ee Technical Drawing f | or Specific Language O | ptions | |
| Total Keys | 69 Keys | 69 Keys | 71 Keys | 90 Keys | 69 Keys | |
| Key Travel | | 2mm travel with excellent tactile feedback | | | | |
| Backlighting | | Red, Green (NVIS - Special Order) | | | | |
| Sealing | Sealing NEMA 4X (IP66) | | | | NEMA 12 (IP54) | |
| KIF6000-NX SPE | CIFICATION | | | | | |
| (IF6000-NX Measureme | ents Width: 11.27" (2 | .86.3mm) Height: 6.1 | .3" (155.7mm) | Depth: 1.13" (29.5mm) | Weight: 54 Oz (1.53 kg) | |
| Operating Systems | | Microsoft Windows® Operating System (Windows XP, Windows 7, Windows 8, Windows 10) | | | | |
| | Mac | OS X® or Linux OS requires of | compliant USB Device Cl | ass Definition for Humar | 1 Interface Devices 1.11 | |
| Standard Driver | | Windows OS USB Compos | site Driver (does not allow | w interrupt of OS boot pr | ocess for BIOS) | |
| KIF6000-NX ELE | CTRICAL SPECIFICA | TION | | | | |
| MTBF | | | Greater than 100.00 | 00 hours | | |
| Cabling | Shield | Shielded USB Cable (9.5 feet) (Standard) Shielded USB Bulkhead Cable Set (W1 - W5) (Optional) | | | | |
| Ground Connection | | Yes | | | | |
| EMI/RFI Shielding | | Designed into PCB Layout | | | | |
| ESD Protection | | 8Kv (Contact), 15Kv (Air) | | | | |
| KIF6000-NX ME | CHANICAL SPECIFIC | CATION | | | | |
| Life Expectancy | | Elastomer Keys 10,000,00 | 00+ activations/cycles (ha | ard carbon pills, hard go | ld plated PCB) | |
| Shock | Peak ' | Peak Value 40g (typical) Peak Duration 11ms Waveform Half Sine | | | | |
| Vibration | Freque | Frequency / Displacement 10-55 Hz @ 0.013 DA | | | | |
| Joystick Life Expectar | ncy | X & Y Axes | | 10,000,000 r | random deflections | |
| Joystick MTBF | | | Greater than 100,00 | 00 hours | | |
| Joystick Movemen | X & Y Axes (Sim | X & Y Axes (Simultaneous or Non-Simultaneous Movement) Max +/- 2 | | | | |
| Joystick Operational F | orce X & Y Breakout F | orce 140g (Sta | ndard) X & ' | Y Full Scale Force | 235g (Standard) | |
| Joystick Shock | Peak Value | 30-50g F | eak Duration | 11ms | Waveform Half Sine | |
| Joystick Vibration | Frequency | / Displacement | nt 5-25 Hz / 0.1" 25-55 Hz / 0.03" | | | |
| KIF6000-NX EN | VIRONMENTAL SPE | CIFICATION | | | | |
| Operating Tempera | ature | -40° to 80° C / -40° to 176° F | | | | |
| Storage Temperat | | -40° to 80° C / -40° to 176° F | | | | |
| Relative Humidit | | 100% condensing | | | | |
| Sealing Rating | | NEMA 4X (IP66) | | | | |
| Protection | | SynProof™ Coated (Standard) - protection against harsh oils and chemicals Parylene Coated (Optional) - toughest molecular barrier protection | | | | |
| | | | bated (Optional) - toughes | a molecular barrier protec | uon | |
| | E / CERTIFICATIONS | | | subj | ect to manufacturing options applie | |
| U.S.A. Standard | | 47 CFR 15 Class A & B | | issions Compliant 8Kv (0 | | |
| | | MIL-STD-461F Radiated Emissions and Susceptibility Conformance | | | | |
| | | MIL-STD-810G Protection against humidity, fungus, and salt spray Conformance | | | | |
| | | MIL-STD-901D Protection against shock Conformance | | | | |
| | | MIL-STD-167-1 Protection against vibration Conformance | | | | |
| | N | IIL-STD-1472G | Human Factors Conformance | | | |
| | | MIL-I-45208 Quality System Conformance IPC-A-610 II Acceptability of Electronics Assemblies Certification | | | | |
| European Standa | rds | ISO 9001:2008 (Registration No. 74 300 3983) | | | | |
| European Standa | 1440 | "CE" Compliant | | | | |
| | | Restriction | of Hazardous Substance | | liant | |
| | Regu | | | | | |
| International Stand | | IEC 61000-4-2 and EN61000-4-2 | | Authorisation and Restriction of Chemicals (REACH) Directive Compliant ESD 8Kv contact and 15Kv air Conformance | | |
| | | IEC 61000-4-3 and EN61000-4-3 | | Radiated Emissions and Susceptibility Conformance | | |
| | | IEC 61000 6 2 and EN61000 6 2 | | Floatramagnatic Compatibility Conformance | | |

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Electromagnetic Compatibility Conformance

IEC 61000-6-3 and EN61000-6-3