



An Affiliate of ELECTRO SWITCH

KIF8000-NX Industrial Keyboard

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

KIF8000-NX USB INDUSTRIAL KEYBOARD

CTI's KIF8000-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 CTI's special formulated flexible polyurethane coating process (Syn-Proof™). Ensuring a watertight seal, these keyboards are encased in the finest grade 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 full-size keyboard with its stainless steel threaded inserts on the bottom plate allows for affixing to a panel or desktop.

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 wash down applications these rugged full-size keyboards are an excellent solution for food processing, paper/pulp processing, paint/chemical processing, iron ore/steel manufacturing facilities, etc. The combined features of the Plug-n-Play Industrial Keyboards meet and/or exceed industry standards specifications.

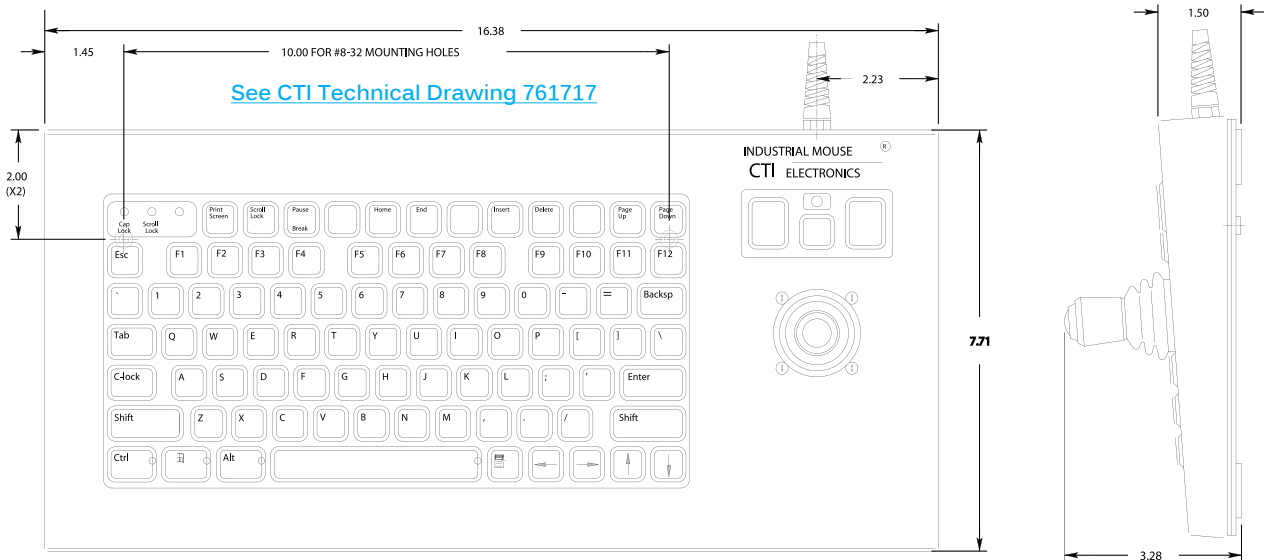
KIF8000-NX MANUFACTURING OPTIONS

Wx	Shielded USB Bulkhead Cable (1 Foot to 5 Feet)w
*For complete ordering information please refer to Technical Drawings	

KIF8000-NX TECHNICAL DRAWINGS

761699	KIF8000-N2 Plug-n-Play Industrial Keyboard with Industrial Mouse™
761717	KIF8000-N3 Plug-n-Play Industrial Keyboard with Industrial Mouse™

KIF8000-NX INDUSTRIAL KEYBOARD TECHNICAL DRAWING



F-SERIES JOYSTICK PATENTS

U.S.A. PATENTS [4,825,157](#) | [5,376,946](#) | [5,532,476](#)

performance

durability

reliability



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MID-SIZE AND FULL-SIZE INDUSTRIAL KEYBOARD COMPARISON CHART

	KI8000	KI9000	KIF8000	KIF9000	KIT2700
Dimensions (Inches)	12.88" x 7.71" x 1.60"	16.51" x 8.04" x 1.56"	16.38" x 7.71" x 2.78"	20.00" x 8.04" x 1.60"	16.38" x 9.00" x 1.71"
Dimensions (mm)	327.1 x 195.8 x 40.64mm	419.3 x 204.2 x 39.6mm	416.5 x 195.83 x 70.61mm	419.3 x 204.2 x 39.6mm	416.5 x 228.6 x 43.69mm
Stainless Steel Oz (kg)				117 Oz (3.31 kg)	
Aluminum Oz (kg)			52 Oz (1.47 kg)		60.6 Oz (1.71 kg)
Mouse Pointer			Industrial Mouse™	Industrial Mouse™	Industrial Trackball
Numeric Keypad		Yes		Yes	
Function Keys	12	24	12	24	12
Language Options	US QWERTY (Standard) See Technical Drawing for Specific Language Options				
Total Keys	87 Keys	116 Keys	87 Keys	116 Keys	87 Keys
Key Travel	2mm travel with excellent tactile feedback				
Backlighting					
Sealing	NEMA 4X (IP66)				NEMA 12 (IP54)

KIF8000-NX SPECIFICATION

KIF8000-NX Measurements	Width: 11.27" (286.3mm)	Height: 6.13" (155.7mm)	Depth: 1.13" (29.5mm)	Weight: 52 Oz (1.47 kg)
Operating Systems	Microsoft Windows® Operating System (Windows XP, Windows 7, Windows 8, Windows 10)			
	Mac OS X® or Linux OS requires compliant USB Device Class Definition for Human Interface Devices 1.11			
Standard Driver	Windows OS USB Composite Driver (does not allow interrupt of OS boot process for BIOS)			

KIF8000-NX ELECTRICAL SPECIFICATION

MTBF	Greater than 100,000 hours		
Cabling	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)		

KIF8000-NX MECHANICAL SPECIFICATION

Life Expectancy	Elastomer Keys 10,000,000+ activations/cycles (hard carbon pills, hard gold plated PCB)			
Shock	Peak Value 40g (typical)	Peak Duration 11ms	Waveform Half Sine	
Vibration	Frequency / Displacement	10-55 Hz @ 0.013 DA		
Joystick Life Expectancy	X & Y Axes	10,000,000 random deflections		
Joystick MTBF	Greater than 100,000 hours			
Joystick Movement	X & Y Axes (Simultaneous or Non-Simultaneous Movement)		Max +/- 20° travel	
Joystick Operational Force	X & Y Breakout Force	140g (Standard)	X & Y Full Scale Force	235g (Standard)
Joystick Shock	Peak Value	30-50g	Peak Duration	11ms
			Waveform	Half Sine
Joystick Vibration	Frequency / Displacement	5-25 Hz / 0.1"		25-55 Hz / 0.03"

KIF8000-NX ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40° to 80° C / -40° to 176° F
Storage Temperature	-40° to 80° C / -40° to 176° F
Relative Humidity	100% condensing
Sealing Rating	NEMA 4X (IP66)
Protection	SynProof™ Coated (Standard) - protection against harsh oils and chemicals Parylene Coated (Optional) - toughest molecular barrier protection

CONFORMANCE / CERTIFICATIONS / COMPLIANCE

subject to manufacturing options applied

U.S.A. Standards	U.S. FCC 47 CFR 15 Class A & B	RF Emissions Compliant 8Kv (Contact), 15Kv (Air)
	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
	MIL-STD-1472G	Human Factors Conformance
	MIL-I-45208	Quality System Conformance
	IPC-A-610 II	Acceptability of Electronics Assemblies Certification
European Standards	ISO 9001:2008 (Registration No. 74 300 3983)	
	"CE" Compliant	
	Restriction of Hazardous Substance (RoHS) Directive Compliant	
	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive Compliant	
International Standards	IEC 61000-4-2 and EN61000-4-2	ESD 8Kv contact and 15Kv air Conformance
	IEC 61000-4-3 and EN61000-4-3	Radiated Emissions and Susceptibility Conformance
	IEC 61000-6-3 and EN61000-6-3	Electromagnetic Compatibility Conformance