An Affiliate of ELECTRO SWITCH

KI6000 Industrial Keyboard

NEMA 4X (IP66) PLUG-N-PLAY INDUSTRIAL KEYBOARD

KI6000 INDUSTRIAL KEYBOARD

CTI's Plug-n-Play KI6000 Series Industrial Keyboards are comprised of a durable Printed Circuit Board (PCB), a rubber silicone Elastomer, 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 each 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 special molded 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 Keyboards are most suitable for critical applications requiring high durability (10+ years), 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 miniature 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 KI6000-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 miniature 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.



· Shown above KI64U4 Industrial Keyboard

KI6000 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

KI6000 MANUFACTURING OPTIONS

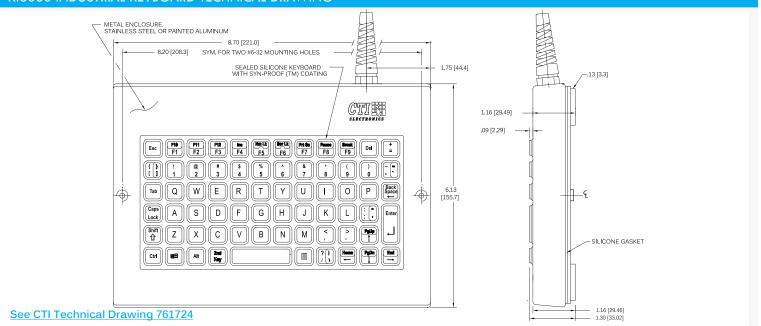
Shielded USB Bulkhead Cable (1 Foot to 5 Feet)

*For complete ordering information please refer to Technical Drawings

KI6000 TECHNICAL DRAWINGS

KI6000 Plug-n-Play Industrial Keyboard

KI6000 INDUSTRIAL KEYBOARD TECHNICAL DRAWING



Product Data Sheet 820191



K16000 Industrial Keyboard NEMA 4X (IP66) PLUG-N-PLAY INDUSTRIAL KEYBOARD

MINIATURE AND COMPACT INDUSTRIAL KEYBOARD COMPARISON CHART					
	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 1.33"	11.27" x 6.13" x 1.57"
Dimensions (mm)	221 x 155.7 x 33.8mm	286.3 x 155.7 x 39.9mm	221 x 155.7 x 33.8mm	313.2 x 155.7 x 33.8mm	286.3 x 155.7 x 39.9mm
Stainless Steel Oz (g)	40 Oz (1134g)	55 Oz (1600g)	40 Oz (1134g)	59 Oz (1700g)	55 Oz (1600g)
Aluminum Oz (g)	21.7 Oz (610g)	32 Oz (900g)	22.5 Oz (638g)	35 Oz (1000g)	32 Oz (900g)
Mouse Pointer		Industrial Mouse™	OrbitalMouse®	OrbitalMouse®	Industrial Trackball
Numeric Keypad			Yes (Non-Backlit)	Yes	
Function Keys	12	12	12	12	12
Language Options	US QWERTY (Standard) See Technical Drawing for Specific Language Options				
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	NEMA 4X (IP66) NEMA 12 (IP54)				

KI6000 SPECIFICATION	N			
KI6000 Measurements	Width: 8.70" (221mm)	Height: 6.13" (155.7mm)	Depth: 1.33" (33.8mm)	Weight: 40 Oz (1134 g) Stainless
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 Keyboard Driver			

KI6000 ELECTRICAL SPECIFICATION			
MTBF	Greater than 100,000 hours		
Cabling	Shielded USB Cable (9.5 feet) (Standard) Shielded USB Bulkhead Cable Set (W1 - W5) (Or		
Ground Connection	Yes		
EMI/RFI Shielding	Designed into PCB Layout		
ESD Protection	8Kv (Contact), 15Kv (Air)		
Keyboard Signaling Protocols	Standard USR I Legacy PS/2 AT ASCII SUN DEC		

RIGOUU MECHANICAL SPECIFICATION			
Life Expectancy	Elastomer Keys 10,000,000	+ activations/cycles (hard carbon pills, hard gold pl	lated PCB)
Shock	Peak Value 40g (typical)	Peak Duration 11ms	Waveform Half Sine
APP CONTRACTOR	F / D' l	10 FF LI- @ 0.010 D	

KI6000 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		
	Parviene Coated (Optional) - toughest molecular barrier protection		

CONFORMANCE / CERTI	FICATIONS / 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	

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