MARK II KEYBOARDS



- SNAP ACTION KEYS
- INTEGRATED CIRCUITRY
- FLEXIBLITY
- ELECTRONIC INTERLOCKS
- RELIABILITY

The Controls Research Mark II Keyboard is the most advanced systems concept available today. It is engineered to provide the simplest and most efficient link available between the operator and the computer or industrial control system.

Magnetic snap action of the Mark II Keyboard is provided through the use of CRC 02 keyboard switches. This unique concept in key design allows complete flexibility in key arrangement. The custom keyboard is now economically feasible.

The use of integrated circuitry in the Mark II Keyboard hearlds the beginning of a new generation of highly reliable and extremely versatile encoding systems. Through the use of integrated circuits, electronic interlocks, variable strobing, and high speed bounce-free outputs are available, which are compatible with modern computer and industrial control systems.





KEYBOARD OPTIONS

KEYS AND ARRANGEMENTS

Any specified keyboard with any number of keys.

No restrictions on key placement except $\frac{3}{4}$ inch minimum center-to-center spacing.

CODING OPTIONS

STANDARD: ASCII, 7 Bit + parity Bit, 8

Bit total.

OPTIONAL: BCD or other codes to custom-

er specification with any num-

er of outputs.

OUTPUT OPTIONS

- 1. Single line output from glass reeds (voltage and current supplied by user)
- 2. Binary coded single line output
- 3. Binary coded "Bounce-Free" transistor output with electronic interlock.
- 4. Binary coded "Bounce-Free" buffered integrated circuit output with electronic interlock.
- 5. Binary coded "Contact Closure" output with electronic interlock.

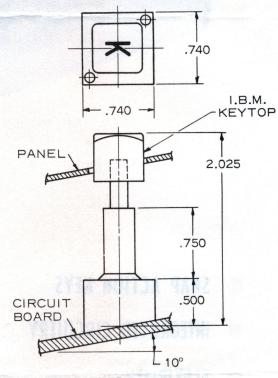
Voltage and current supplied by user on all encoded keyboards -40V & 50MA max. Options 3, 4, & 5 require a D.C. voltage of 4.0-6.0 V at 100 MA in addition to other voltages as required by specific applications.

SPECIAL OPTIONS

Strobe Signal

Delay variable from 100 NSEC to 500 MSEC Width variable from 250 NSEC to 500 MSEC Output Reset

Internally variable or externally controlled



ACTUAL SIZE

KEY SPECIFICATIONS

Snap Force: 3 oz.
Return Force: 1 oz.

Contact Life: 1,000,000 cycles
Contact Rating: 100 mils max.
Contact Bounce: ½ millisec
Contacts: Dry reed switch
Shaft Dim.: .040 x .187

Shaft Material: Housina:

Return Spring: Mounting: 302 stainless
(2) 2-56 machine screws

Noryl Plastic

301 full hard stainless

Travel .156



Date	

Quote	Reqd	by
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SPECIAL I	ZING IN PRECISION SWITCHING DEVICES	Telephone (714) 892-9
		(714) 537-1
Your Name	Company	/
Address		Phone
	State	
Keyboard Requirements		
1. Supply quote on quar	ntities	
to be delivered over	circle quantity re r a period ofmonths	epresenting normal buy) s, starting
2. Total number of keys	s per keyboard	
3. Unit is to be panel	mountedor self cont	ained
4. Keys are on .750 cer	ntersorcenters.	(if possible send dwg)
5. Keytops to be IBM in	n size and coloror	(send dwg)
6. Output requirement v Sir .Bir	will be: ngle line outputs from ree nary coded single line out	ed switcheskeys. cputskeys.
7. Output code isbit	t ASC II or(if poss	sible send chart)
8. Electronic interlock Interlock to be rese	k is requirednot requiet externallyor Intern	ired nally
9. Output logic levels	are $Vdc \pm Vdc = 1c$ $Vdc \pm Vdc = 1c$	ogical "O" ogical "l"
0. Output current requi		rcing" current. nking" current.
l. External voltages ar	reVdc atmA. No Vdc atmA.	one
2. Output reset is requor internally control	uired and is to be externated aftermsec,	ally controlled, usec.
3. Strobe output is rec	quired (Complet	ce timing diagram below)
	gnal output	msec µsec



msec usec msec msec Strobe output [usec µsec