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.

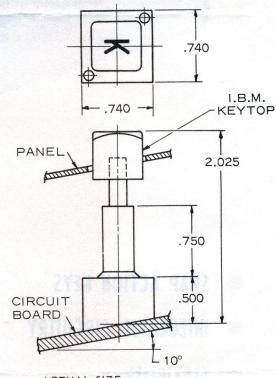
Voltage and current supplied by user on all encoded keyboards -40V & 50MA max. Options 3, 4, & 5 require a D.C. voltage of 4.0-6.0 V at 100 MA in addition to other voltages as required by specific applications.

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: 301 full hard stainless

Housing: Noryl Plastic Return Spring: 302 stainless

Mounting: (2) 2-56 machine screws

Travel .156



Date	

Quote	Reqd	by

			Company	
	Address		Company_	
	Maa1 633			Phone
				Zip
Keyboa	rd Requirer	nents		
		on quantities (cir	cle quantity rep	presenting normal buy)
				, starting
		of keys per keybo		
3. Uni	t is to be	panel mounted	or self conta	ained
4. Key	s are on .7	750 centerso	rcenters. ((if possible send dwg)
5. Key	tops to be	IBM in size and	coloror	(send dwg)
6. Out	put require	ement will be: Single line o Binary coded	utputs from reed single line outp	d switcheskeys. outskeys.
7. Out	put code is	sbit ASC II or	(if possi	ible send chart)
8. Ele Int	ctronic int	terlock is require be reset external	ednot requir lyor Interna	ed ally
9. Out	put logic	levels areVd	c ±Vdc = log c ±Vdc = log	jical "0" jical "1"
0. Out	put current	t requirements ar	emAdc "forc mAdc "sink	cing" current. king" current.
1. Ext	ernal volta	ages areVdc	atmA. Nor atmA.	ne
2. Out	put reset internally	is required and is controlled after	s to be external msec,	lly controlled, usec.
3. Str	obe output	is required	(Complete	e timing diagram below)



			msec		
Signal	output		usec		
		msec [msec	msec	
Strobe	output [µsес	иsec	usec	

Please add any special requirements you may have on back of this sheet.