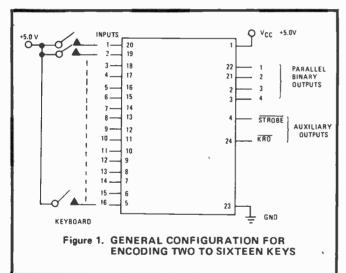
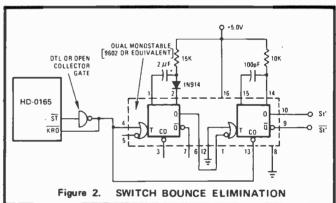
The HD-0615 Keyboard Encoder is a 16 line to four-bit parallel encoder intended for use with manual data entry devices such as calculator or typewriter keyboards. In addition to the encoding function, there is a Strobe output and a Key Rollover output which energises whenever two or more inputs are energised simultaneously. Any four-bit code can be implemented by proper wiring of the input lines. Inputs are normally wired through the key switches to the +5.0V power supply. Full typewriter encoding up to eight bits can be accomplished with two Encoder circuits by the use of double pole key switches or single pole switches with two isolation diodes per key. Outputs will interface with all popular DTL and TTL logic families. The circuit is packaged in a hermetic 24-pin dual in-line package and operates over the temperature range of 0° C to $+75^{\circ}$ C.

					INPUTS								QUIPUTS								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	St.	KR
ι	ι	ι	L	ι	t	L	ι	ι	L	ι	L	ι	ı	L	ι	н	н	н	н	н	н
н	L	L	L	Ł	L	ι	L	L	L	L	L	L	L	L	L	H	н	н	н	L	н
ι	14	ι	L	L	L	L	L	L	L	L	L	L	L	L	ι	Ł	н	н	н	L.	н
L	L	н	L	L	Ł	L	L	L	≠ L	L	L	L	L	Ł	L	н	L	н	н	L	н
L	L	L	н	L	ι	ι	L	ι	£	L	L	ι	L	ι	ι	L	· L	н	н	L	н
L	L	Ł	L	н	t	L	L	L	L	L	L	L	L	L	L	н	н	L	н	L	н
L	L	L	L	L	н	L	L	L	Ł	L	t	L	L	1	L	L	н	ι	н	L	н
L	L	L	L	L	L	н	L	L	L	L	L	L	L	L	L	н	L	ι	н	ι	н
L	ι	ι	L	L	ι	1	н	L	ι	L	ι	ι	L	L	L	L	L	ι	н	L	н
L	L	L	Ł	L	L	L	L	н	L	L	L	L	L	L	L	н	н	н	L	ι	н
L	ι	L	L	L	ι	ι	L	i.	н	ι	L	ι	L	ι	L	L	н	н	L	t	н
L	L	L	L	L	L	L	L	L	L	н	L	L	L	L	ι	н	L	н	L	L	H
L	L	L	L	L	L	Ł	L	L	L	L	H	L	L	L	ι	L	Ł	н	L	L	н
L	L	L	L	L	L	L	L	L	L	L	L	н	L	L	ι	н	н	L	L	ι	н
L	L	L	Ł	L	L	L	L	L	L	L	L	L	н	L	ι	L.	н	L	L	L	н
L	Ł.	L	L	L	L	L	L	L	L	L	L	L	L	н	L	н	1	L	L	L	н
			1	- 1		1	1	1	L	L	L	1	L	L	н	lι		1	- 1		н

1		SYM.		LIMITS					
- 1	PARAMETER		MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS		
).C.	Input Current				17	mA.	V _{IN} = +5 0V		
	"g" Output Voltage		VOL		+0.2	+0.4	v	V _{IH} = +4.5V	
	,	1	VOH	+2.4	+4 0	i		VIL = Open Circuit, IOH = -240 LA	
	Power Supply Current	Operating	¹ cc			52	mA	One input at +5.25V	
	- Control Supply Current	Maximum	^I CCM			88	mA	All Inputs at +5.25V	
.c.	Skew Time (Note 1)		^T SK		80	200	ns	T _{Case} = 25°C V _{CC} * V _{IN} = +5.0V C _L < 50pF	





THE ENCODER IS AVAILABLE FROM PRONTO ELECTRONICS, ADDRESS PAGE 39, FOR £8.10 inc.

