

# KE18 Keyboard Encoder

*A simple but versatile interface to your PC Keyboard Input*



The KE18 unit is a quick and easy way to interface to your PC keyboard input. The unit is programmed with a standard key code table. Our KE18 unit is jumper selectable for 9 x 9 matrix or 18 individual inputs. A jumper selection is also provided to enable or disable the repeat function.

## KE18 Features

- Provides all necessary communication to the PC. Operates with or without the keyboard attached.
- Configure the unit to your application by three jumper settings...
  - Enable or disable KE18 repeat function
  - Type of scanning (9x9 matrix or 18 inputs)
  - Type of computer (AT, PS/2, XT etc.)
- Available with 6 pin miniDIN connectors, or 5 pin DIN connectors for the Keyboard and Computer Interface.
- The KE18 is configured with the standard key code table shown on page 12, but is also available with custom key code tables as well. Please contact Hagstrom Electronics, Inc. with your requirements for a custom key code table and scanning arrangement.

We can customize the key code table of the KE18 to meet your specifications. Please contact us with your requirements.

### KE18 Lookup Table (9x9 Matrix Mode)

*Header Row Pins*

	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>	
<b>Header Column Pins</b>	<b>A</b>	A	B	C	D	E	F	G	H	I
	<b>B</b>	J	K	L	M	N	O	P	Q	R
	<b>C</b>	S	T	U	V	W	X	Y	Z	Esc
	<b>D</b>	: ;	`,` \	> .	< ,	? /	Space	Back-space [	{ ]	}
	<b>E</b>	Ctrl	Alt	Shift	Insert	Delete	Home	End	Page Up	Page Down
	<b>F</b>	/	*	-	+	F1	F2	F3	F4	F5
	<b>G</b>	8 ↑	9 Pg Up	. Del	Enter	F6	F7	F8	F9	F10
	<b>H</b>	4 ←	5	6 →	7 Home	-	 \	Caps Lock	Num Lock	Print Screen
	<b>I</b>	0 Ins	1 End	2 ↓	3 Pg Dn	+ =	~ '	Tab	Pause	Scroll Lock

Inputs in the 9 x 9 matrix are activated by shorting one Row pin to one Column pin. (A-I and J-R are the interface pins of the KE18.)

### KE18 Lookup Table (18 Input Mode)

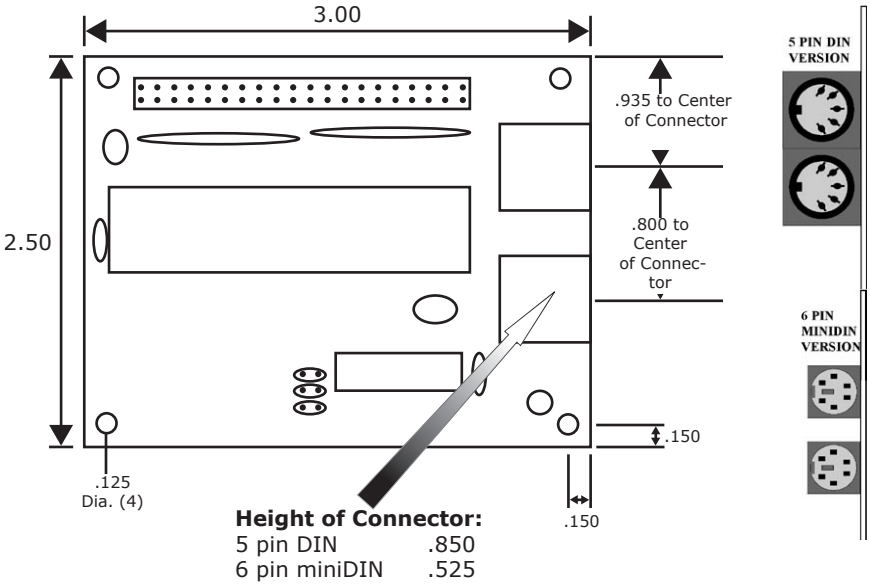
*KE18 Header Input Pins*

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>
A	C	D	E	G	I	L	O	Q	R	S	X	? /	 \	F1	Space	Esc	Enter

Inputs in the 18 input mode are activated by shorting the input to the provided Ground connection.

<b>Operating Voltage</b>	5 Volts DC +/- 5%
<b>Operating Current</b>	50 ma Typical
<b>Operating Temp.</b>	0 to 70 Degrees C
<b>PC Interface</b>	PC Compatible
<b>Keyboard Interface</b>	PC Compatible
<b>I/O Header</b>	18 I/O, up to 9x9 Matrix

# KE18 Specifications



**Note:** Dimensions are in inches.

