

SECTION 5

UTILITY



SECURE-TECH

DETENTION ELECTRONIC SYSTEMS

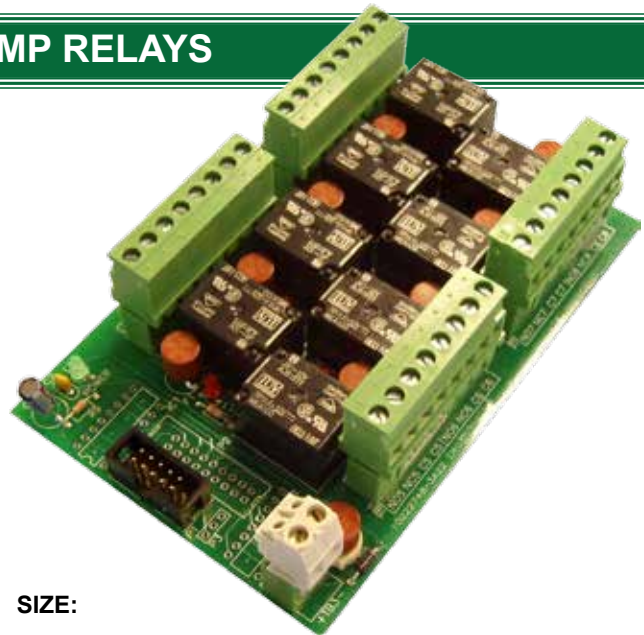
ETECH CONTROLS CORPORATION - MANUFACTURER
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**MODEL
HC-0803**

8 FUSED 10 AMP RELAYS

FEATURES:

- INTERPOSING DEVICE (DRY CONTACT RELAYS)
- 8 FUSED FORM C 10 AMP RELAY OUTPUTS
- 8 RED STATUS LEADS
- FUSED POWER CIRCUIT
- GREEN POWER STATUS LED
- ALL PLUG CONNECTION
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0803 interfaces between control panels and door locks, lighting circuits, HVAC, etc. A red status LED is provided for each relay.

INPUTS / OUTPUTS:

Eight control switch inputs are provided. Eight form C relay outputs are provided with the contact points plug-in fuse protected.

The relay contacts are rated as follows:

FORM C	UL class B	CSA
277 VAC	6 AMPS	6 AMPS
125 VAC	10 AMPS	10 AMPS
30 VDC	5 AMPS	5 AMPS

Standard plug-in fuses are 250 volt, 10 amp time lag, UL 198G. Other fuse sizes are available.

The outputs are connected to Phoenix type compression screw terminal plugs sized for 22 to 12 AWG stranded conductors. The inputs are connected via a 10-pin male header. The mating female ribbon plug is provided.

SIZE:

3.25" W x 5.00" L x 0.90" D
82.6mm W x 127mm L x 22.6mm D

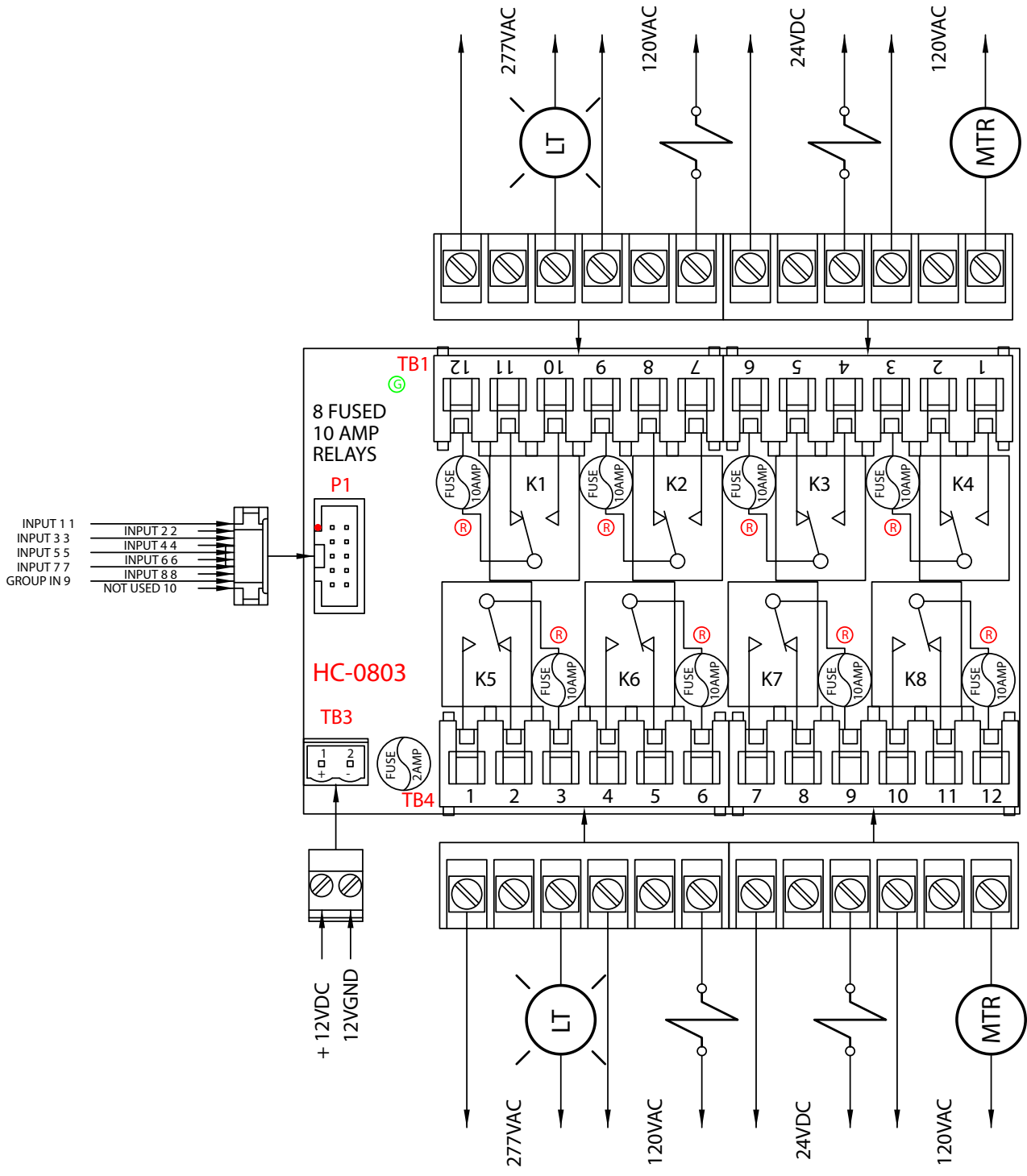
POWER:

12 - 14 VDC, 370ma, 2 amp plug-in fuse, green LED indicator

POWER:	HC-0803	10 AMP Relays
	HC-0803-5	5 AMP Relays

MODEL
HC-0803
8 FUSED 10 AMP RELAYS

HOOK-UP DIAGRAM





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**MODEL
 HC-0695
 HC-0724**

8 RELAY UTILITY - SOCKETED - 10 AMP/40 AMP

FEATURES:

- INTERPOSING DEVICES (DRY CONTACT RELAYS)
- 8 SWITCH INPUTS
- 8 RED STATUS LEDS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

HC-0695

SOCKETED - 10 AMP Utility Relay Module

FUNCTIONAL DESCRIPTION:

The HC-0695 interfaces between control panels and door locks, lighting circuits, HVAC, etc.

The relay contacts are rated as follows:

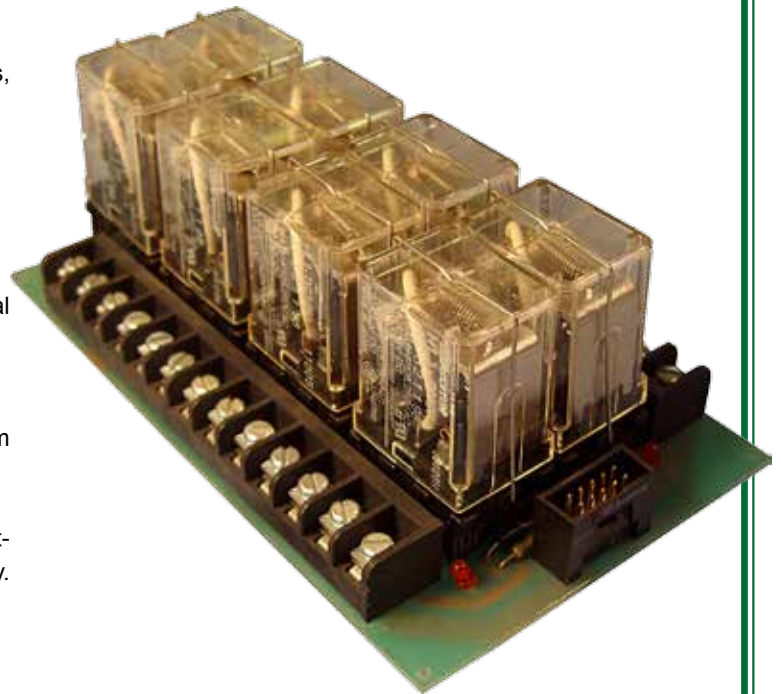
FORM C	UL class B	CSA
277 VAC	6 AMPS	6 AMPS
125 VAC	10 AMPS	10 AMPS
30 VDC	5 AMPS	5 AMPS

The outputs are connected to saddle clamp type screw terminal strips, sized for 22 to 12 AWG stranded conductors.

POWER:

12 - 14 VDC, 240ma **SIZE**
 3.25" W x 5.50" L x 1.90" D - 82.5mm
 W x 139.7mm L x 48.2mm D

Eight control switch inputs are provided. Eight form C relay outputs are provided. A red status LED is provided for each relay.



HC-0724

HI-POWER- 277 VAC / 40 AMP Pluggable Relay Module

FUNCTIONAL DESCRIPTION:

The HC-0724 interfaces between control panels and high amperage field devices like door locks, lighting circuits, etc.

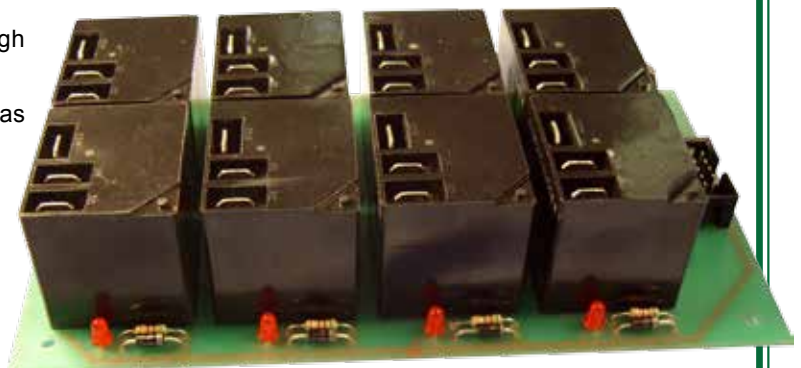
Each relay is UL Class F approved with contacts rated as follows:

LOAD TYPE	N.O.	N.C.
Resistive 240 vac	40 Amps	30 Amps
General 277 vac	30 Amps	20 Amps
Inductive 250 vac	2.0 Hp	1.5 Hp
DC-30 vdc	40 Amps	30 Amps

The outputs are 0.25" male spade lugs on the relays. Use mating female crimp type wire lugs.

POWER:

12 - 14 VDC, 800ma **SIZE**
 3.25" W x 5.75" L x 1.17" D 8

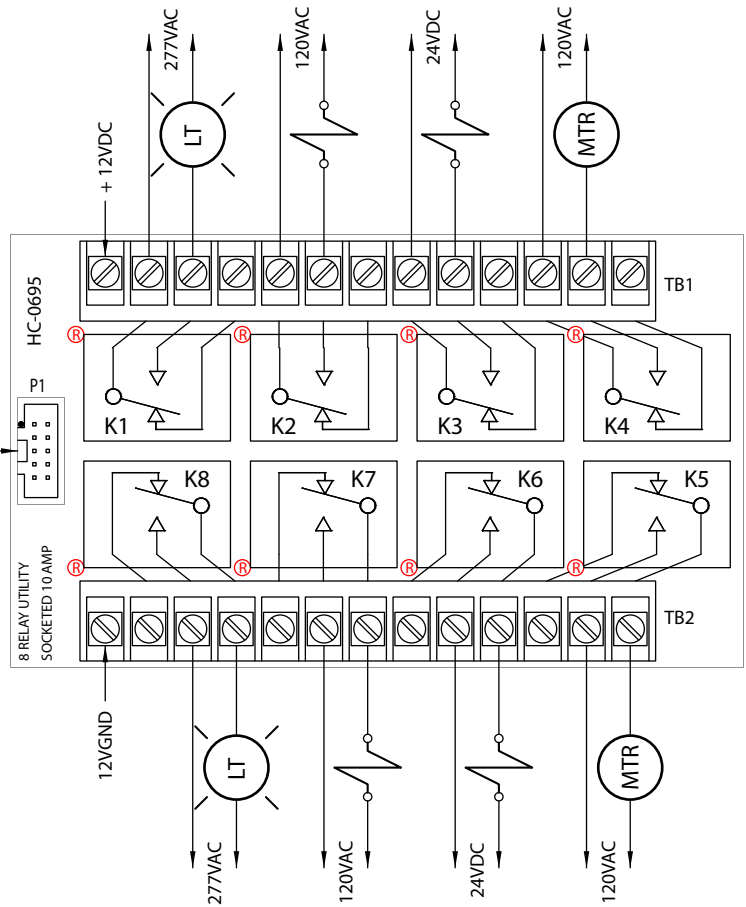
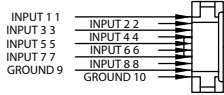


Eight control switch inputs are provided. Eight form C relay outputs are provided. A red status LED is provided for each relay.

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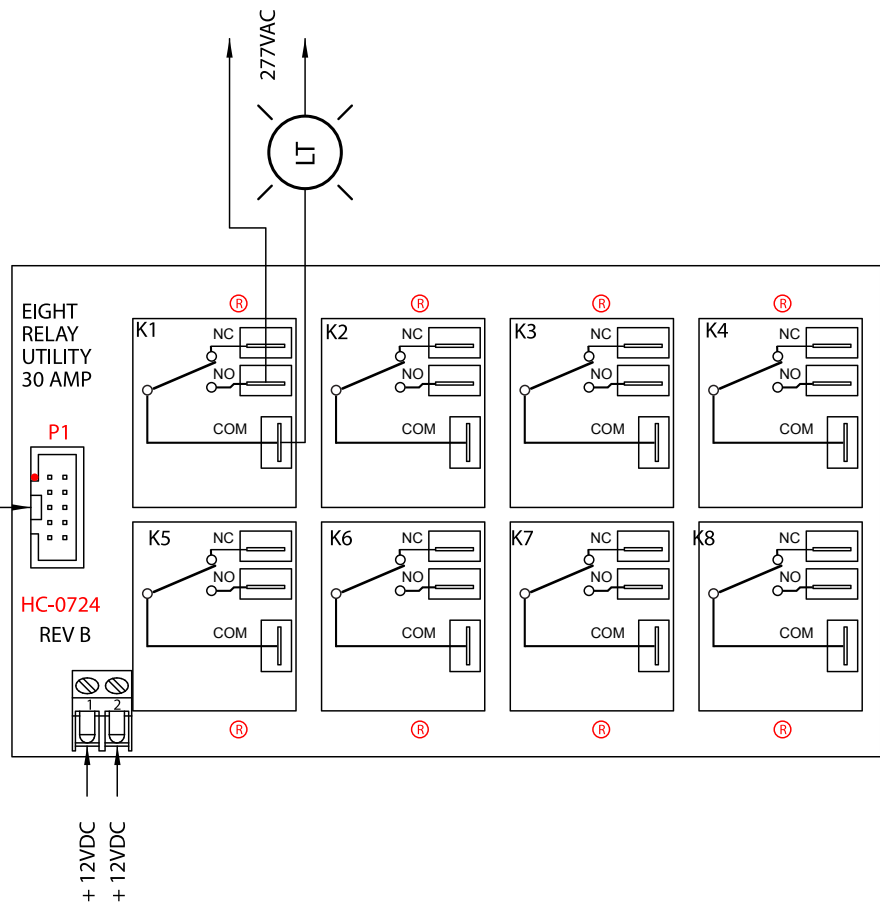
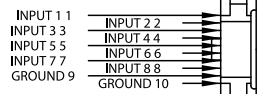
MODEL HOOKUP DIAGRAMS

CONTROL INPUTS -
 INPUT 1 = PIN 1 THRU
 INPUT 8 = PIN 8
 INPUT 9 = GROUND
 INPUT 10 = GROUND



**HC-0695 - 8 RELAY
 UTILITY - SOCKETED -
 10 AMP**

CONTROL INPUTS -
 INPUT 1 = PIN 1 THRU
 INPUT 8 = PIN 8
 INPUT 9 = GROUND
 INPUT 10 = GROUND



**HC-0724 - 8 RELAY
 UTILITY - 30 AMP**



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**MODEL
HC-0801
HC-0604**

2 DPDT 2 AMP RELAYS - 8 SPST REED RELAYS

FUNCTIONAL DESCRIPTION HC-0801

The HC-0801 interfaces between control panels and low amperage field devices. A green status LED is provided for each relay. Relay coils and contact points are available on both screw terminals and ribbon connectors.

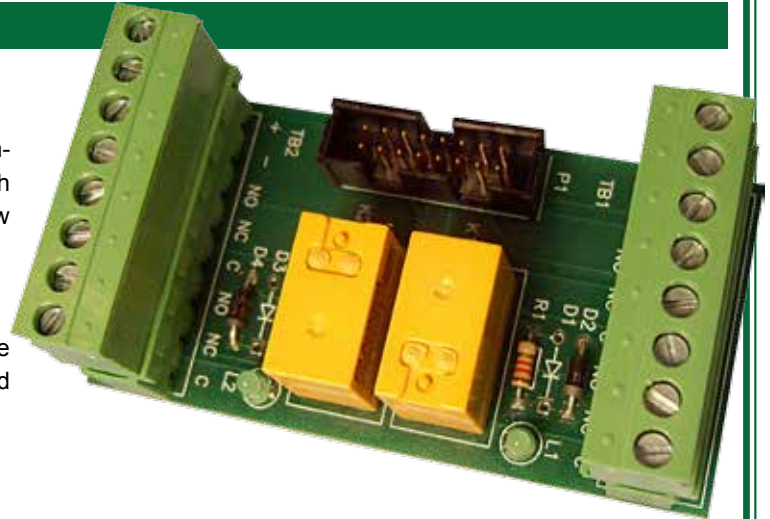
INPUTS / OUTPUTS:

Two control switch inputs are provided. Two double pole double throw relay outputs are provided. The relay contacts are gold or platinum plated.

The relay contacts are rated as follows:

FORM C	UL / CSA
125 VAC	1 AMP
30 VDC	2 AMP

The outputs are connected to Phoenix type compression screw terminal plugs sized for 22 to 12 AWG stranded conductors. The control inputs are connected via a 16-pin male header. The mating female ribbon plug is provided.



SIZE:

3.25" W x 1.69" L x 0.70" D
82.6mm W x 42.9mm L x 18mm D

POWER:

12 - 14 VDC, 100ma

FUNCTIONAL DESCRIPTION HC-0604

The HC-0604 interfaces between control panels and low amperage controlled field devices. A RED diagnostic/status LED is provided for each relay.

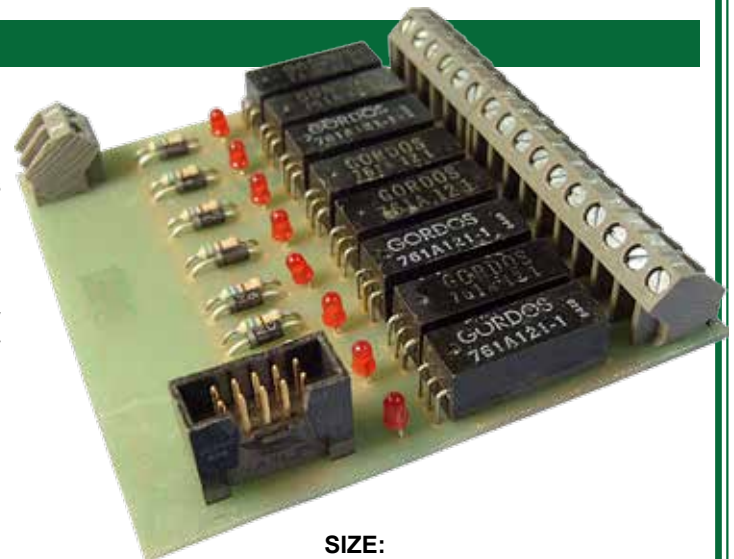
INPUTS / OUTPUTS:

Single pole single throw relay outputs are provided. The relay contacts are suitable for low voltage switching, typical is CCTV camera selection or card/key pad reader sharing.

The relay contacts are rated as follows:

FORM A	UL / CSA
125 VAC	1 AMP
30 VDC	2 AMP

The outputs are connected to compression screw terminals sized for 22 to 14 AWG stranded conductors. The control inputs are connected via a 10-pin male header. The mating female ribbon plug is provided.



SIZE:

3.25" W x 3.25" L x 0.70" D
82.6mm W x 82.6mm L x 18mm D

POWER:

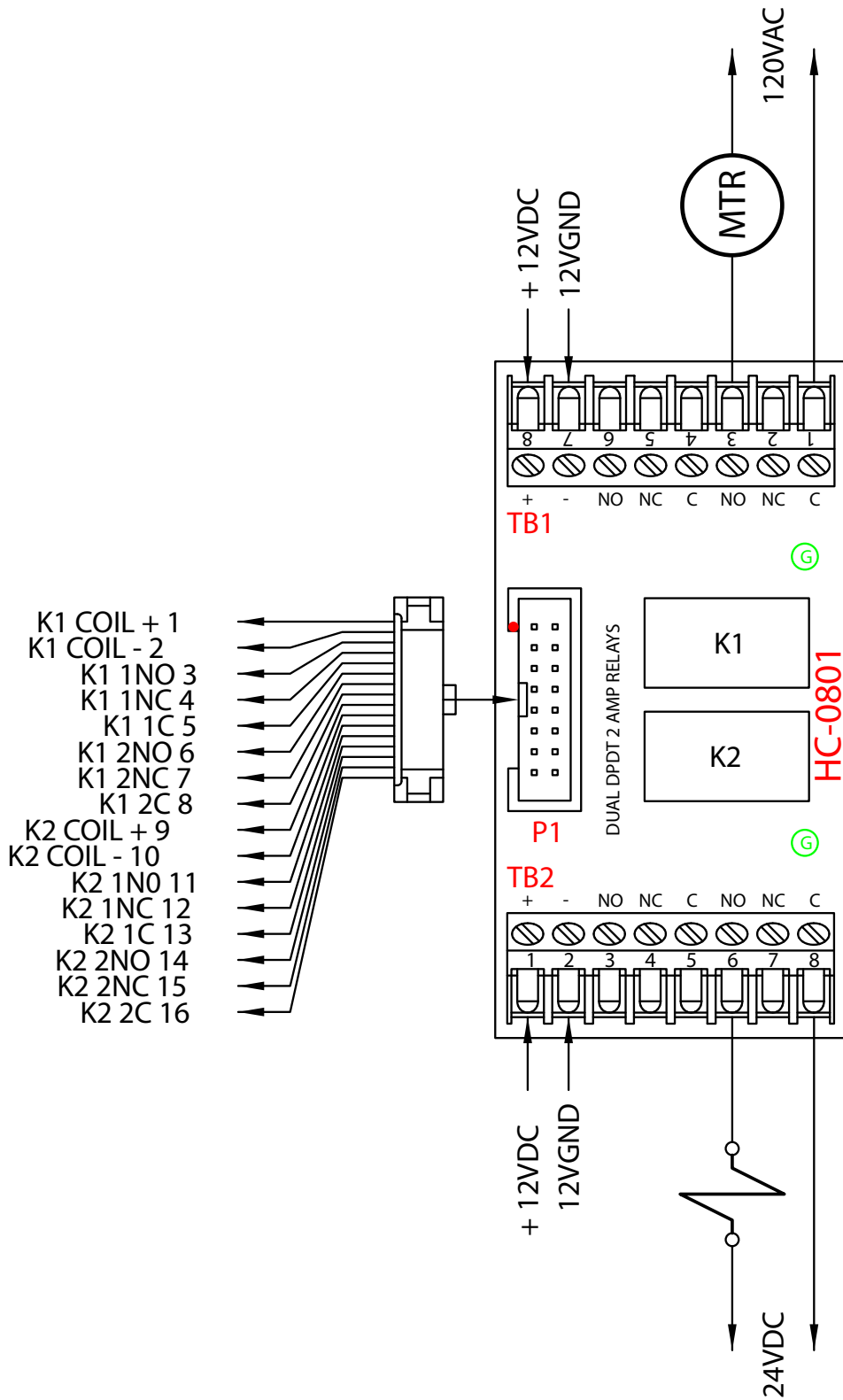
12 - 14 VDC, 100ma

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MODEL

HC-0801 DUAL DPDT 2 AMP RELAYS

HOOK-UP DIAGRAM



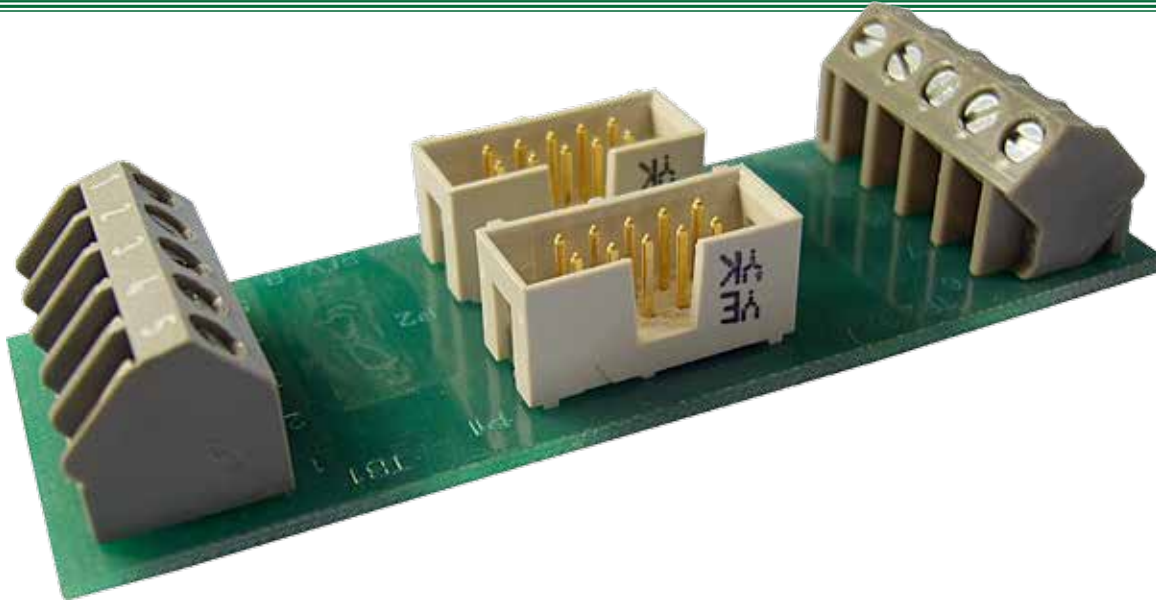


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MODEL
HC-0675

10 POINT ADAPTER



FEATURES:

- CHANGES FIELD WIRING TO RIBBON CABLE
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The HC-0675 converts ten 22 to 14 AWG field device conductors to 26 AWG ribbon cable.

INPUTS / OUTPUTS:

Field conductors terminate to compression type screw terminal strips sized for 22 to 14 AWG stranded conductors. Two 10-pin male headers are provided for ribbon cable connection. The mating female plugs are provided.

RATING:

1 amp per circuit

SIZE:

3.25" W x 1.50" L x 0.56" D

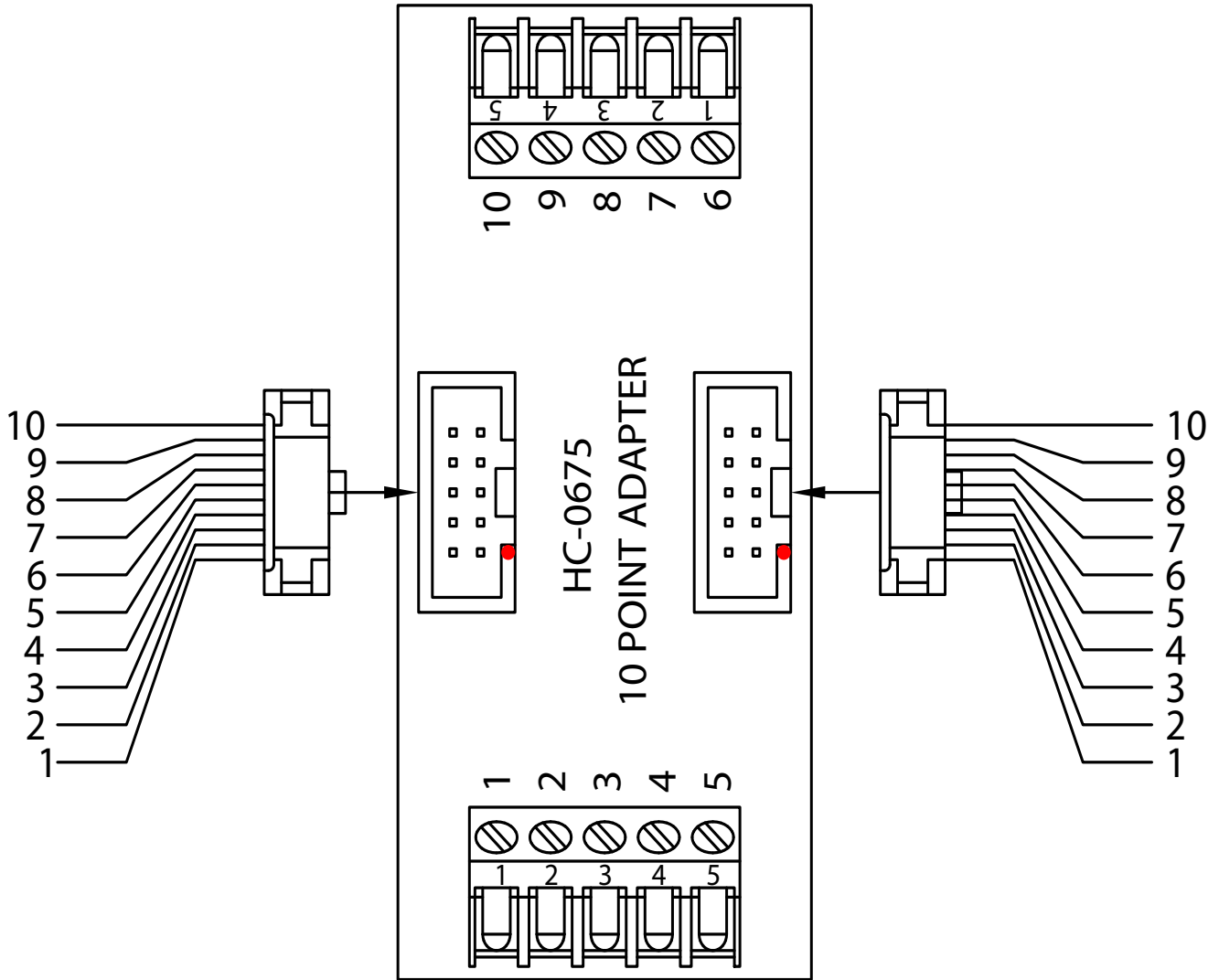
82.6mm W x 38.1mm L x 14.2mm D

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MODEL

HC-0675 10 POINT ADAPTER

HOOK-UP DIAGRAM





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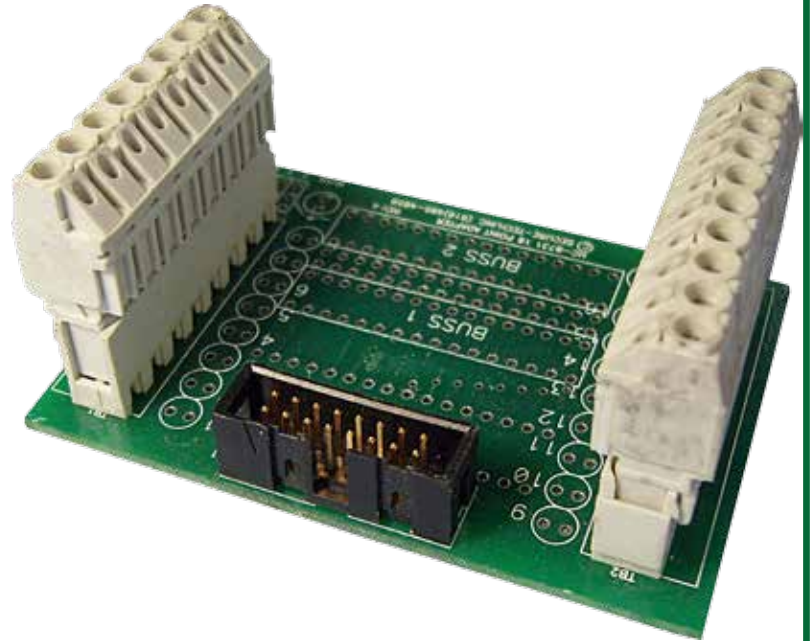
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**MODEL
HC-0731**

16 POINT ADAPTER

FEATURES:

- CHANGES FIELD WIRING TO RIBBON
- 16 CIRCUIT MODIFICATION PADS
- ALL PLUG CONNECTION
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0731 converts sixteen 22 to 12 AWG field device conductors to 26 AWG ribbon cable and provides circuit pads for LEDs, resistors, diodes and power capacitors to modify the sixteen circuits.

INPUTS / OUTPUTS:

Field conductors terminate on Phoenix type compression screw terminal plugs, sized for 22 to 12 AWG stranded conductors. A 16-pin male header is provided for ribbon cable connection. The mating female plug is provided.

RATING:

1 amp per circuit

SIZE:

3.25" W x 2.25" L x 1.24" D
82.6mm W x 57.2mm L x 31.5mm D

OPTIONS:

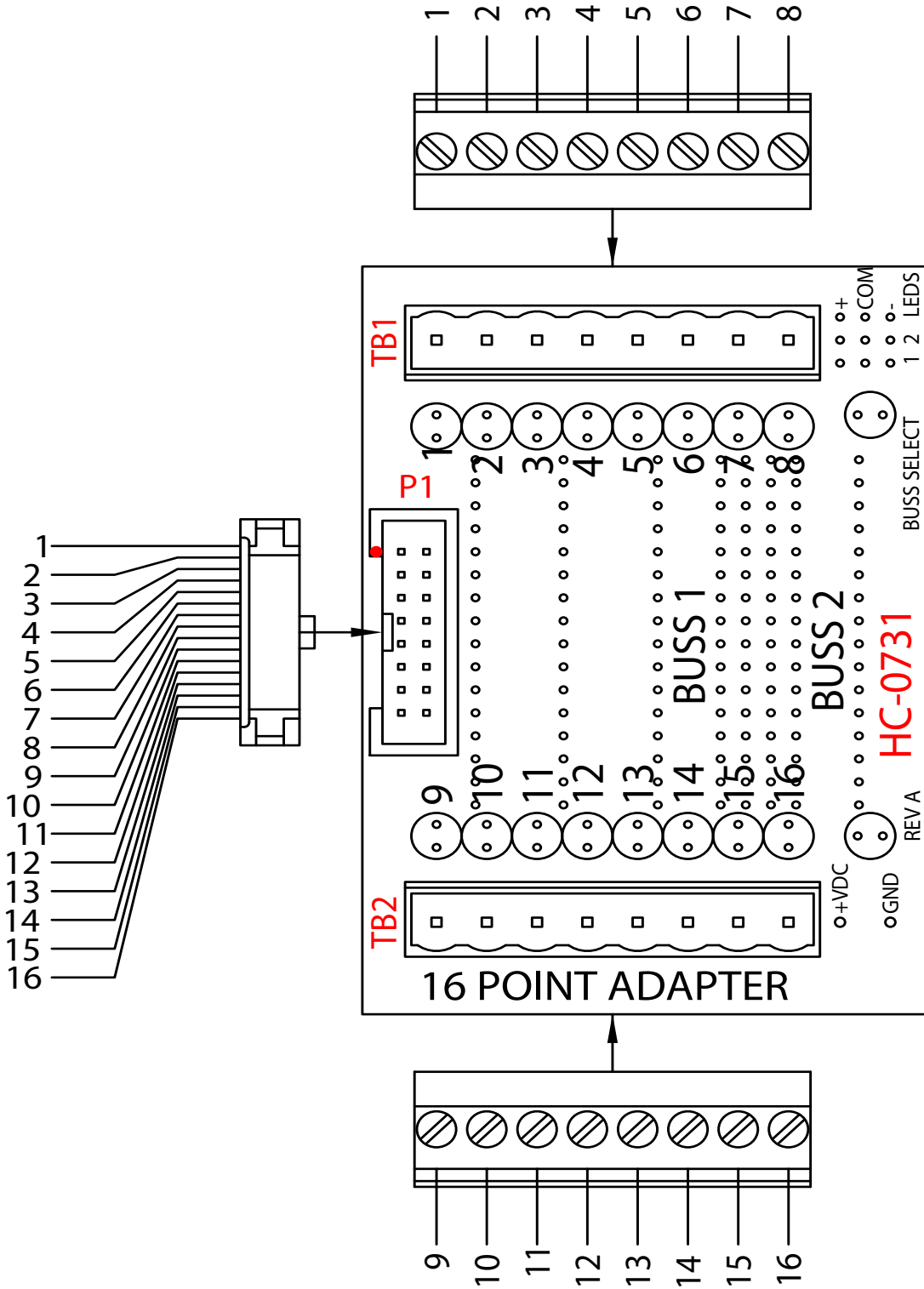
Diodes, resistors, LEDs, etc. can be installed to provide lamp testing, status LEDs, or other functions for your special applications. Please call for special assemblies.

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MODEL

HC-0731 16 POINT ADAPTER

HOOK-UP DIAGRAM





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**MODEL
HC-0639
HC-0476**

ADAPTERS

FUNCTIONAL DESCRIPTION HC-0639

The HC-0639 converts fifty 22 to 14 AWG field device conductors to 26 AWG ribbon cable.

INPUTS / OUTPUTS:

Field conductors terminate to compression type screw terminal strips, sized for 22 to 14 AWG stranded conductors. A 50-pin male header is provided for ribbon cable connection. The mating female plug is provided.

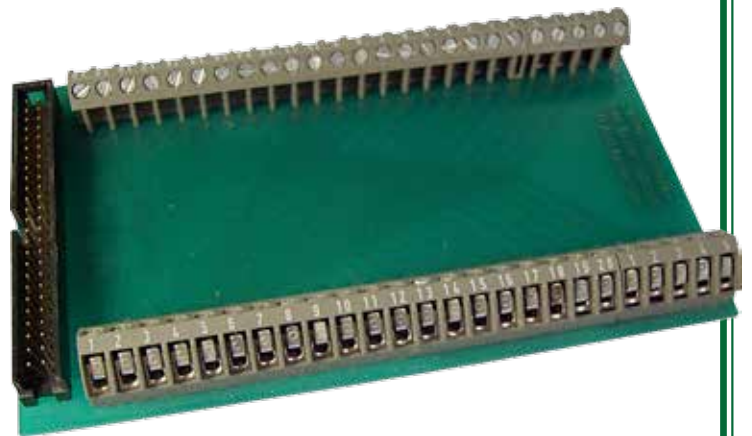
RATING:

1 amp per circuit

SIZE:

3.25" W x 5.50" L x 0.56" D
82.6mm W x 139.7mm L x 14.2mm D

- CHANGES NEC CLASS 2 FIELD WIRING TO RIBBON
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION HC-0476

FEATURES:

- CHANGES CLASS 2 FIELD WIRING TO 25 PAIR CABLE
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

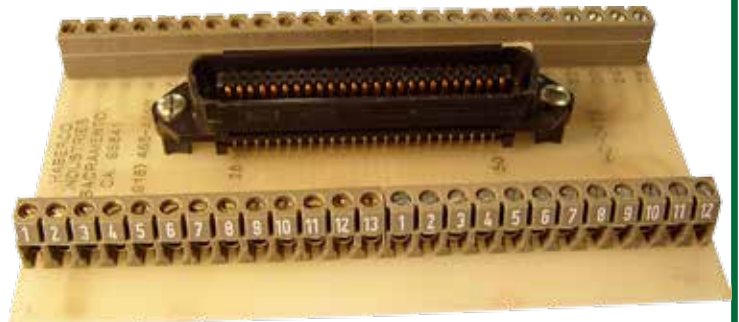
The HC-0476 converts fifty 22 to 14 AWG field device conductors to 25 pair telephone type cable.

INPUT / OUTPUTS:

Field conductors terminate to compression type screw terminal strips, sized for 22 to 14 AWG stranded conductors. A 25 pair telephone type female connector is provided.

RATING:

1 amp per circuit

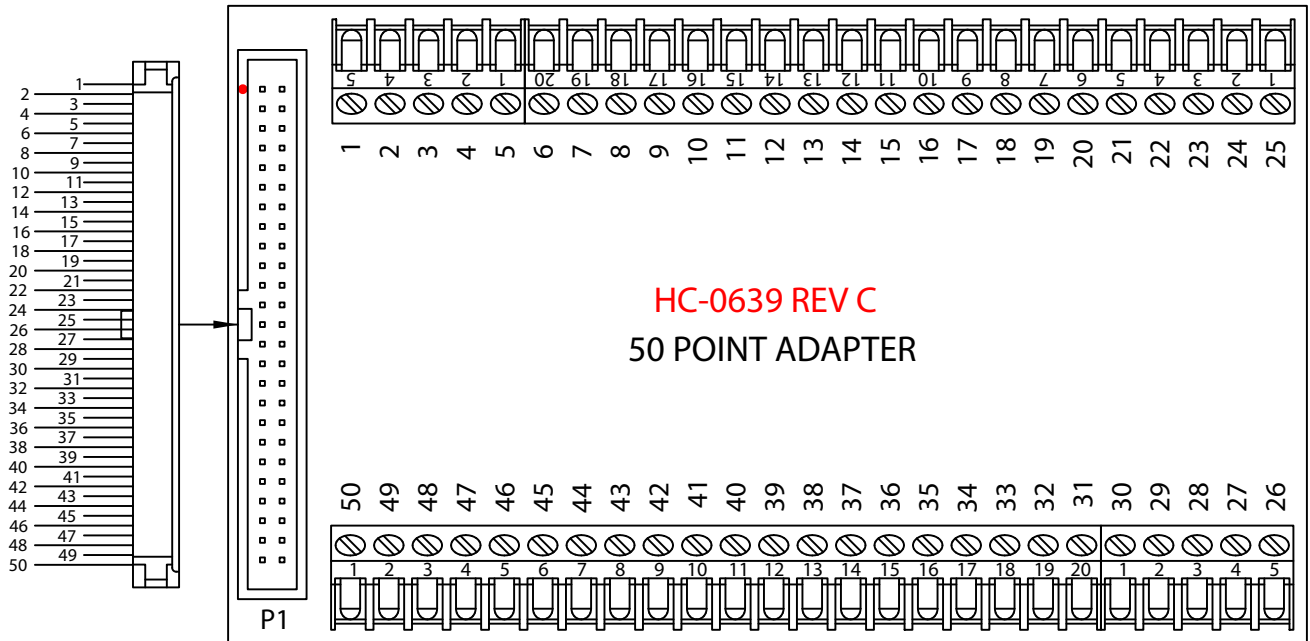


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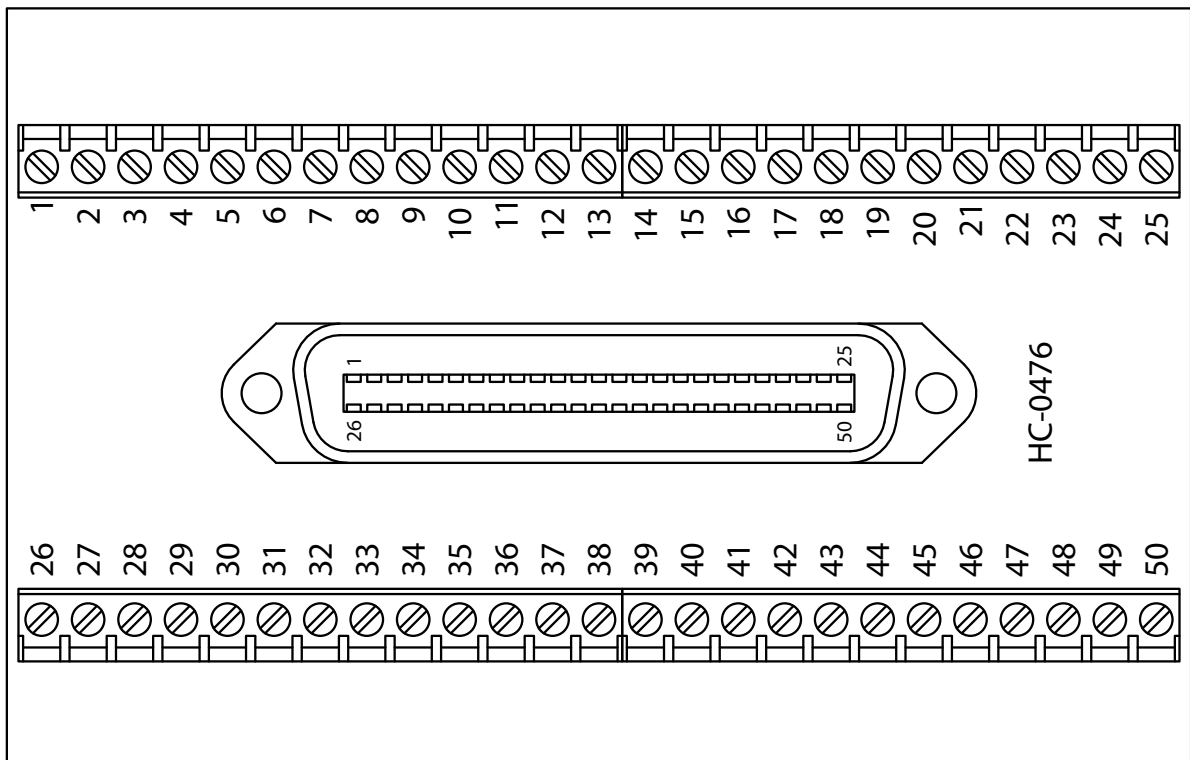
3.25" W x 5.10" L x 0.80" D
82.6mm W x 128.5mm L x 20.5mm D

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**MODEL HC-0639 • 50 POINT ADAPTER
HOOK-UP DIAGRAM**



MODEL HC-0476 • 25 PAIR ADAPTER





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**MODEL
HC-0673
HC-0674**

50 POINT RESISTOR / DIODE ADAPTER - 10 POINT DIODE ADAPTER

FUNCTIONAL DESCRIPTION HC-0673

FEATURES:

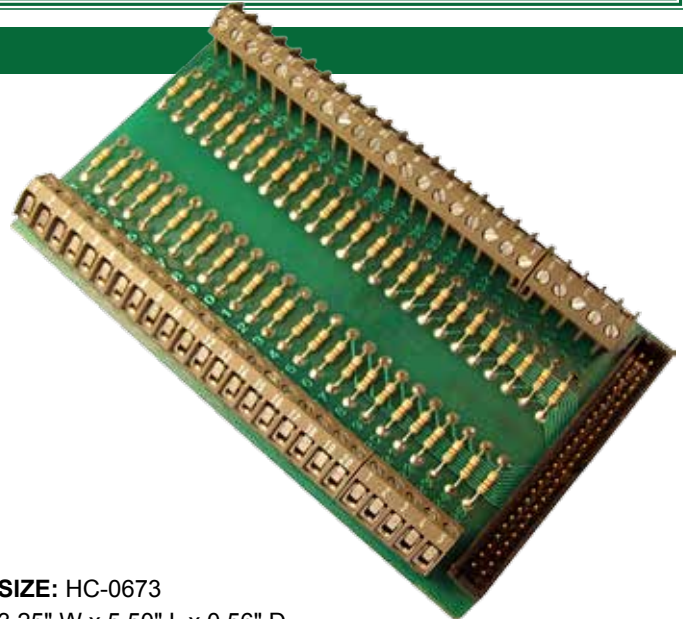
- CHANGES FIELD WIRING TO RIBBON
- IN-LINE RESISTORS OR DIODES
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

The HC-0673 converts fifty 22 to 14 AWG field device conductors to 26 AWG ribbon cable and provides either in-line resistors or diodes.

INPUTS / OUTPUTS:

Field conductors terminate to compression type screw terminal strips, sized for 22 to 14 AWG stranded conductors. A 50-pin male header is provided for ribbon cable connection. The mating female plug is provided.

RATING: 1 amp per circuit



SIZE: HC-0673
3.25" W x 5.50" L x 0.56" D

MODELS:
HC-0673-R 680 ohm 1/4 watt resistors (current limiting resistor for 2V LED at 12 VDC, typical)
HC-0673-D 1N4004 diodes (LED Test, typical)

FUNCTIONAL DESCRIPTION HC-0674

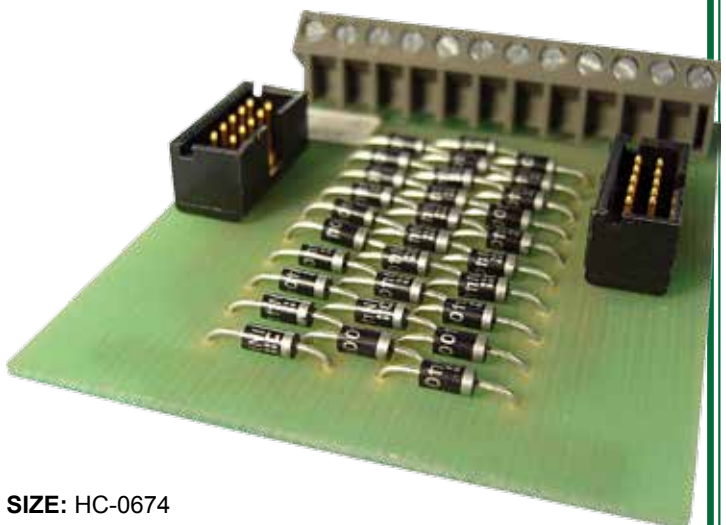
FUNCTIONAL DESCRIPTION:

The HC-0674 converts 10, 22 to 14 AWG field device conductors to 26 AWG ribbon cable, while inserting in-line diodes.

INPUTS / OUTPUTS:

Field conductors terminate to compression type screw terminal strips, sized for 22 to 14 AWG stranded conductors. Two 10-pin male headers are provided for ribbon cable connection. The mating female plugs are provided.

RATING: 1 amp per circuit



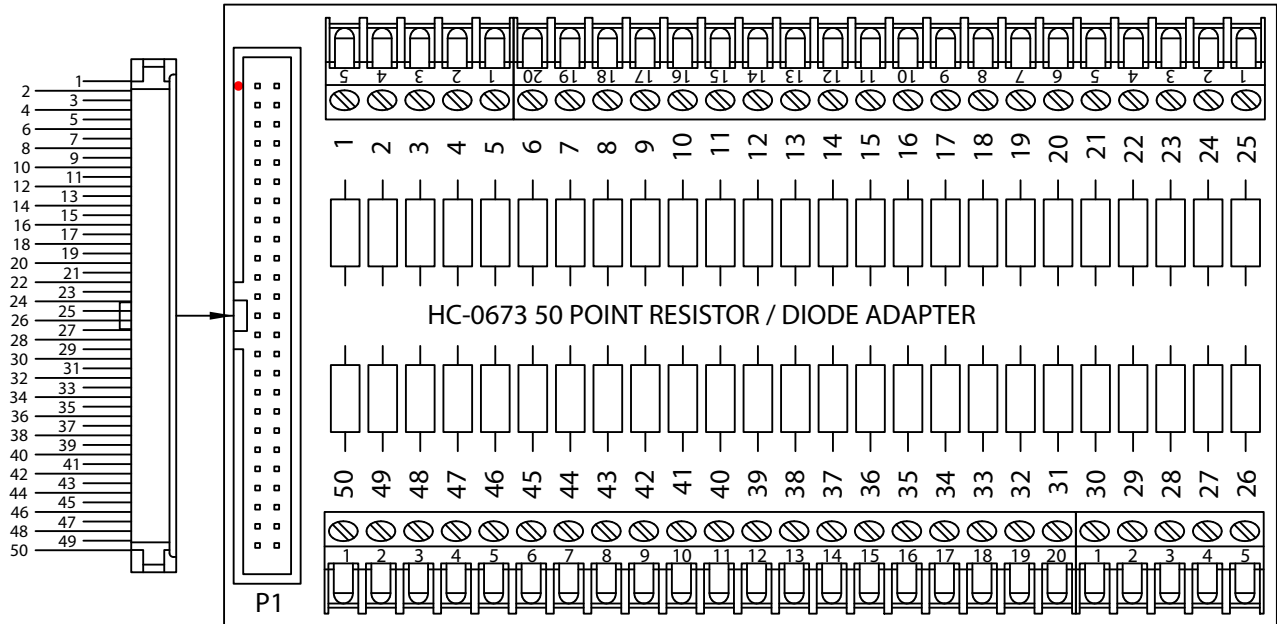
SIZE: HC-0674
3.25" W x 2.50" L x 0.56" D

MODELS:
HC-0674B 1N4004 diodes

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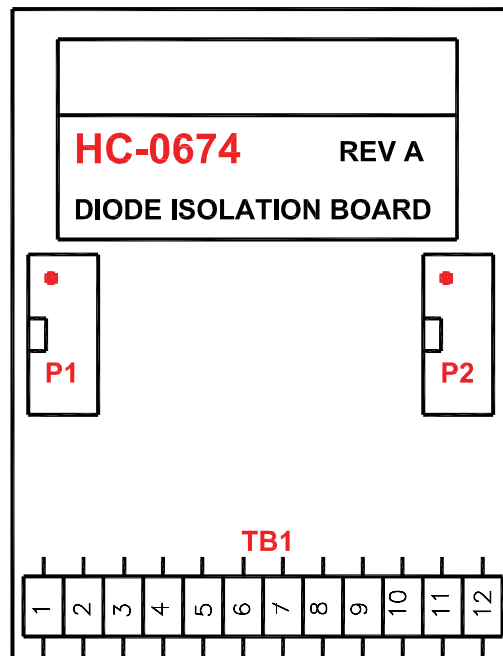
**MODEL
HC-0673
50 POINT RESISTOR / DIODE ADAPTER**

HOOK-UP DIAGRAM



**MODEL
HC-0674
10 POINT DIODE ADAPTER**

HOOK-UP DIAGRAM





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**MODEL
HC-0815A
HC-0815B**

50 PIN INLINE ADAPTER - DIODE

FUNCTIONAL DESCRIPTION HC-0815A

FEATURES:

- ADDS 48 INLINE DIODES
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

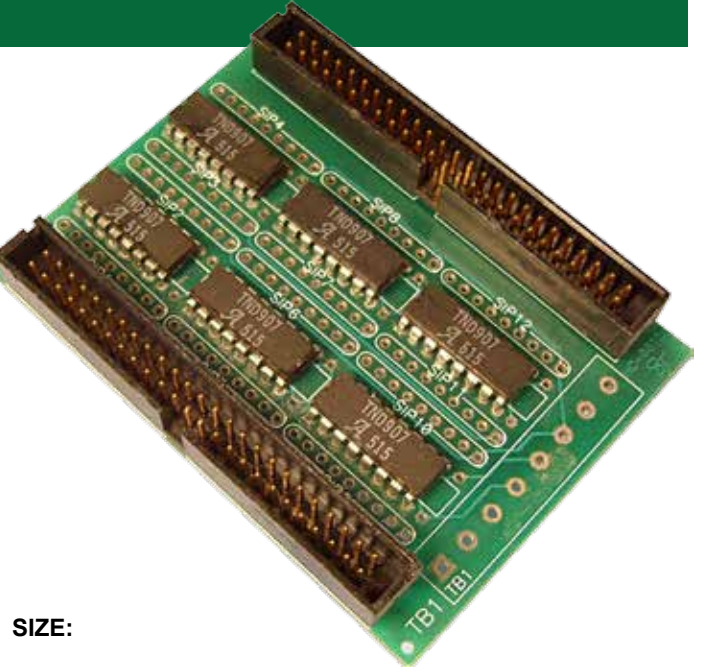
The HC-0815A adds an inline diode to forty-eight circuits.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The mating female plugs are provided.

RATING:

100ma per circuit



SIZE:

3.25" W x 2.38" L x 0.43" D
82.6mm W x 60.3mm L x 10.9mm D

FUNCTIONAL DESCRIPTION HC-0815B

FEATURES:

- ADDS 48 INLINE DIODES + COMMON ANODE
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

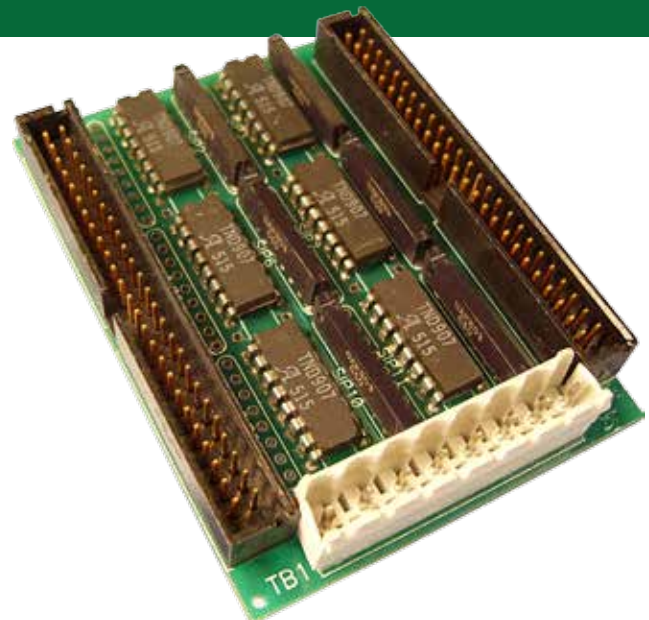
The HC-0815B adds an inline diode to forty-eight circuits with a common anode connection prior to each.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The common anode is connected to a Phoenix type compression screw terminal plug, sized for 22 to 14 AWG stranded conductors. The mating female plugs are provided.

RATING:

100ma per circuit

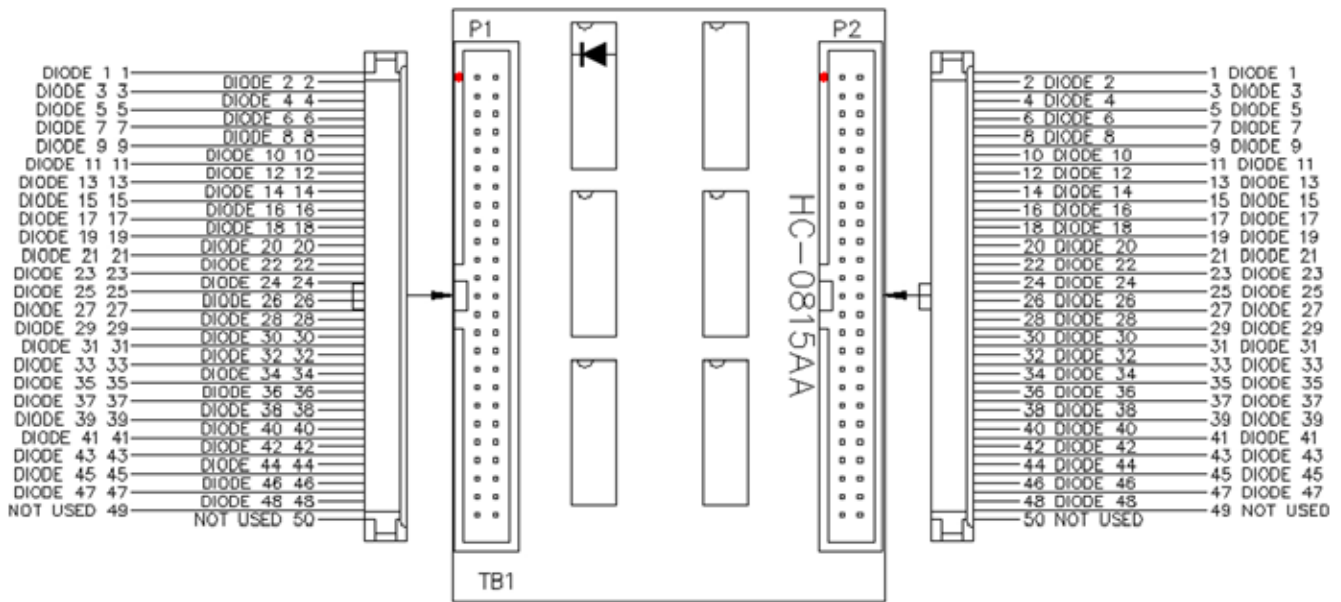


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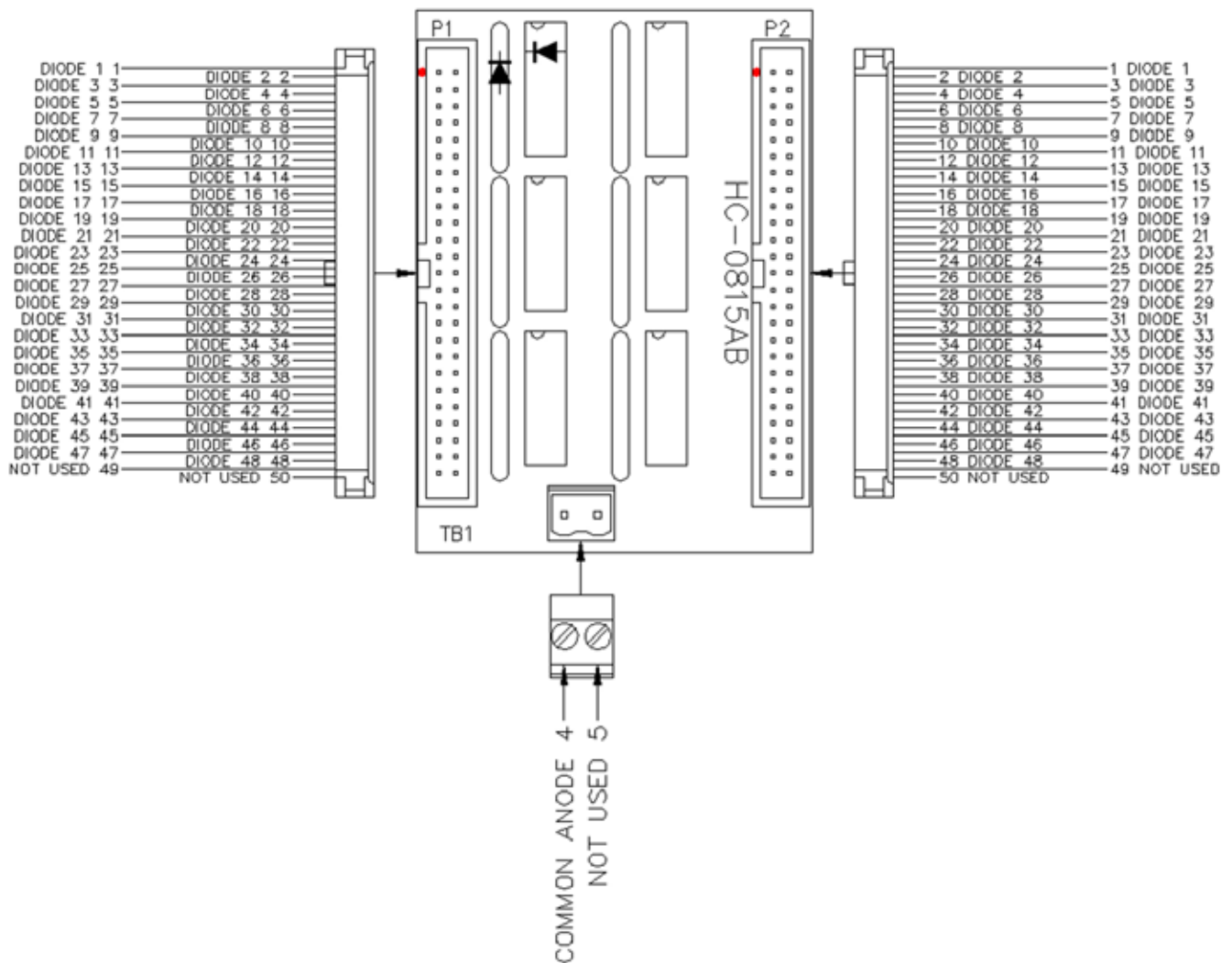
3.25" W x 2.38" L x 1.23" D
82.6mm W x 60.3mm L x 31.4mm D

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MODEL HC-0815A • 50 PIN INLINE ADAPTER - DIODE HOOK-UP DIAGRAM



MODEL HC-0815B • 50 PIN INLINE ADAPTER - DIODE PLUS COMMON ANODE





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**MODEL
HC-0815C
HC-0815D**

50 PIN INLINE ADAPTER - DRIVER

FUNCTIONAL DESCRIPTION HC-0815C

FEATURES:

- ADDS 48 INLINE DRIVERS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

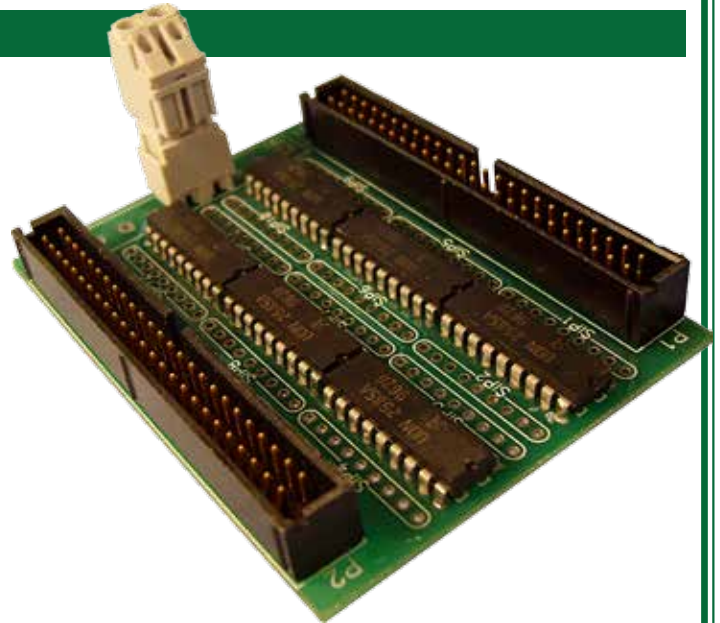
The HC-0815C adds an inline driver to forty-eight circuits.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The power supply is connected to a Phoenix type compression screw terminal plug, sized for 22 to 14 AWG stranded conductors. The mating female plugs are provided.

RATING:

100ma per circuit



SIZE:

3.25" W x 2.38" L x 1.23" D
82.6mm W x 60.3mm L x 31.4mm D

FUNCTIONAL DESCRIPTION HC-0815D

FEATURES:

- ADDS 48 INLINE RESISTORS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

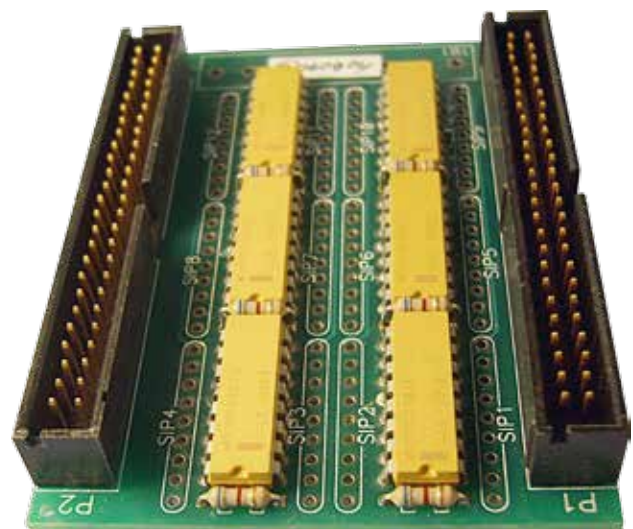
The HC-0815D adds an inline 680 ohm resistor to forty-eight circuits.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The mating female plugs are provided.

RATING:

200mw per circuit

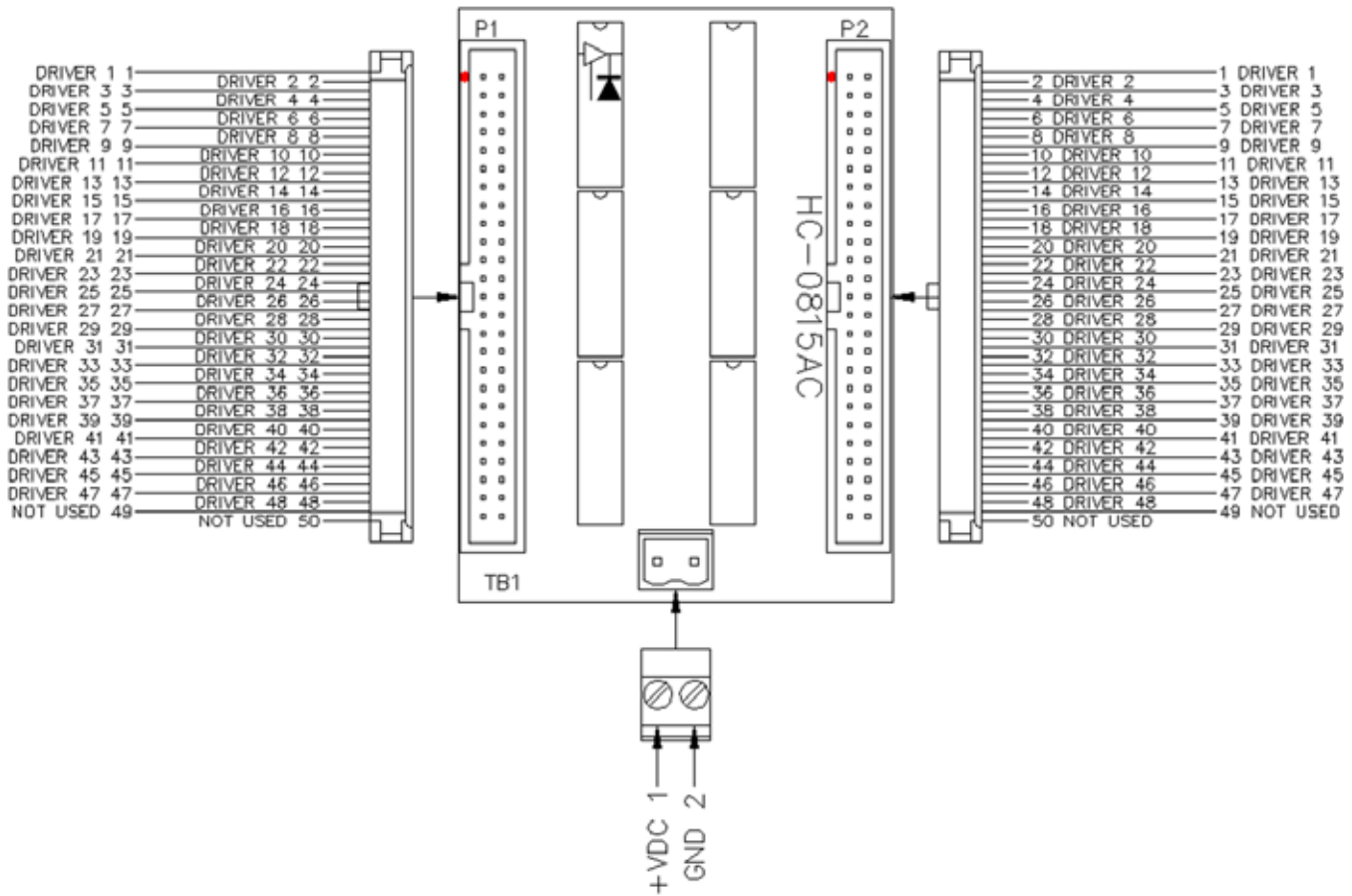


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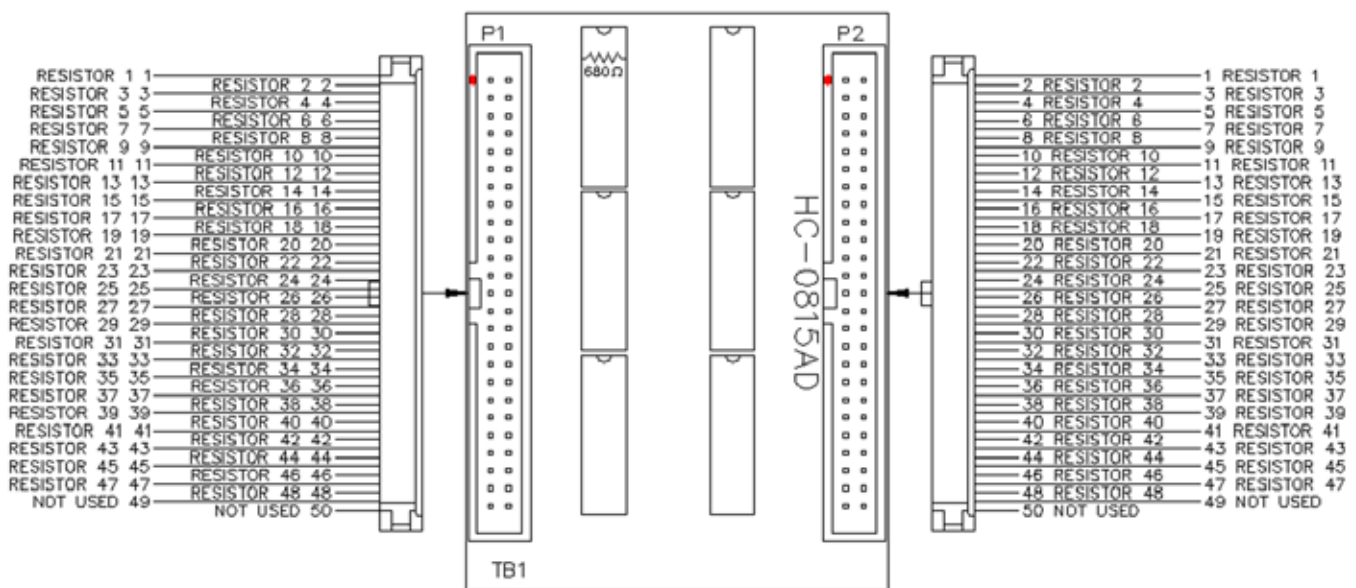
3.25" W x 2.38" L x 0.43" D
82.6mm W x 60.3mm L x 10.9mm D

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MODEL HC-0815C • 50 PIN INLINE ADAPTER - DRIVER HOOK-UP DIAGRAM



MODEL HC-0815D • 50 PIN INLINE ADAPTER - 680 OHM RESISTOR





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**MODEL
HC-0815E
HC-0815F**

50 PIN INLINE ADAPTER - 120 OHM RESISTOR

FUNCTIONAL DESCRIPTION HC-0815E

FEATURES:

- ADDS 48 INLINE RESISTORS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

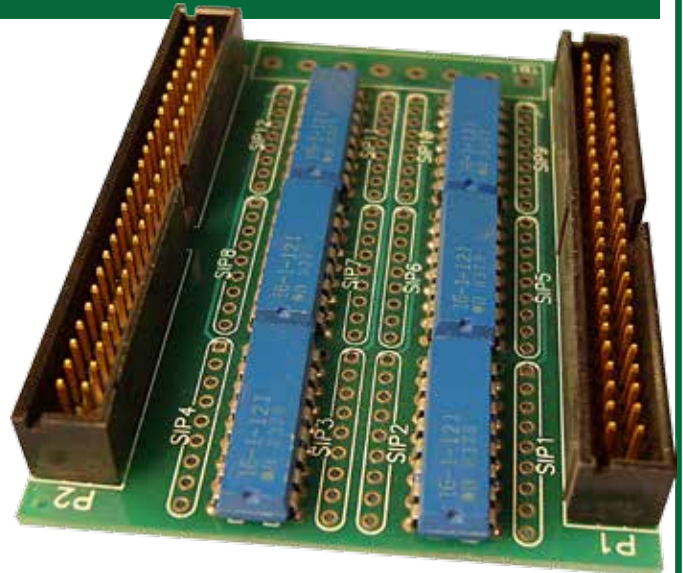
The HC-0815E adds an inline 120 ohm resistor to forty-eight circuits.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The mating female plugs are provided.

RATING:

200mw per circuit



SIZE:

3.25" W x 2.38" L x 0.43" D
82.6mm W x 60.3mm L x 10.9mm D

FUNCTIONAL DESCRIPTION HC-0815F

FEATURES:

- ADDS 48 COMMON CATHODE CONNECTIONS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

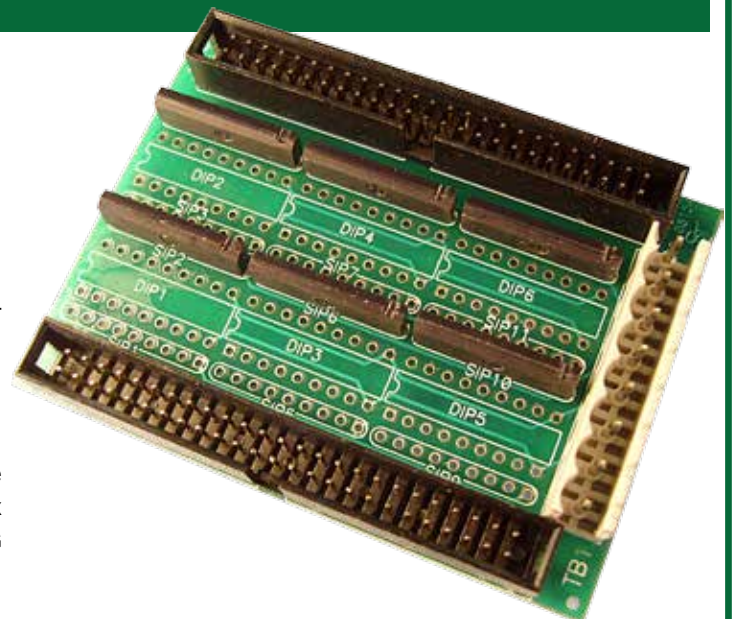
The HC-0815F adds a common cathode connection to forty-eight circuits.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The common cathode is connected to a Phoenix type compression screw terminal plug, sized for 22 to 14 AWG stranded conductors. The mating female plugs are provided.

RATING:

100ma per circuit

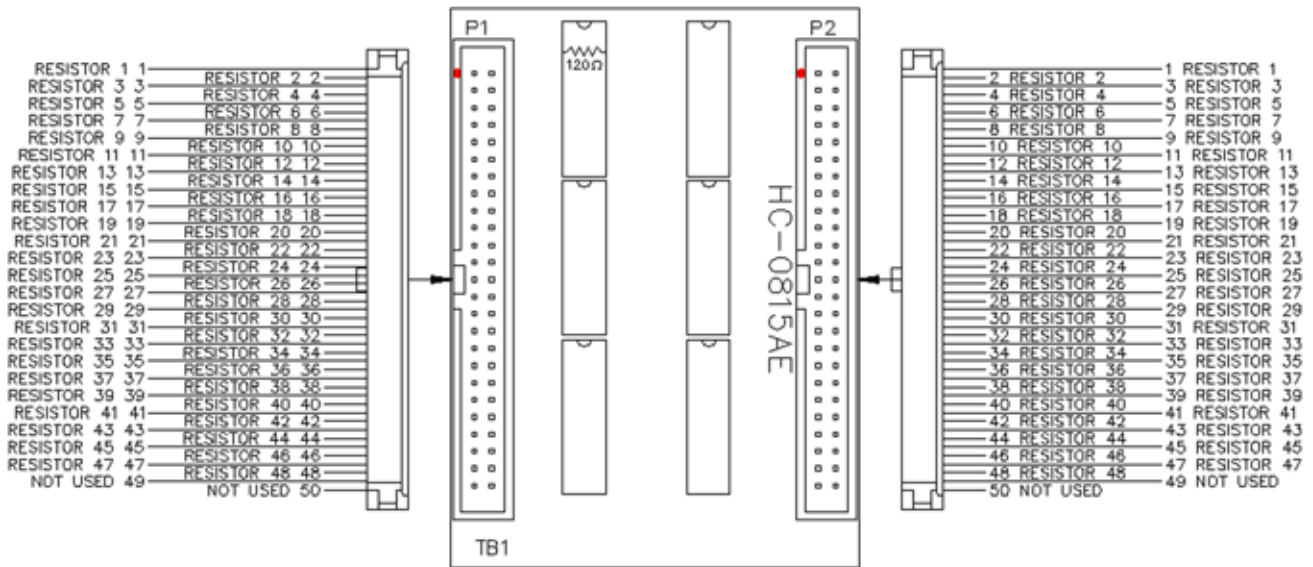


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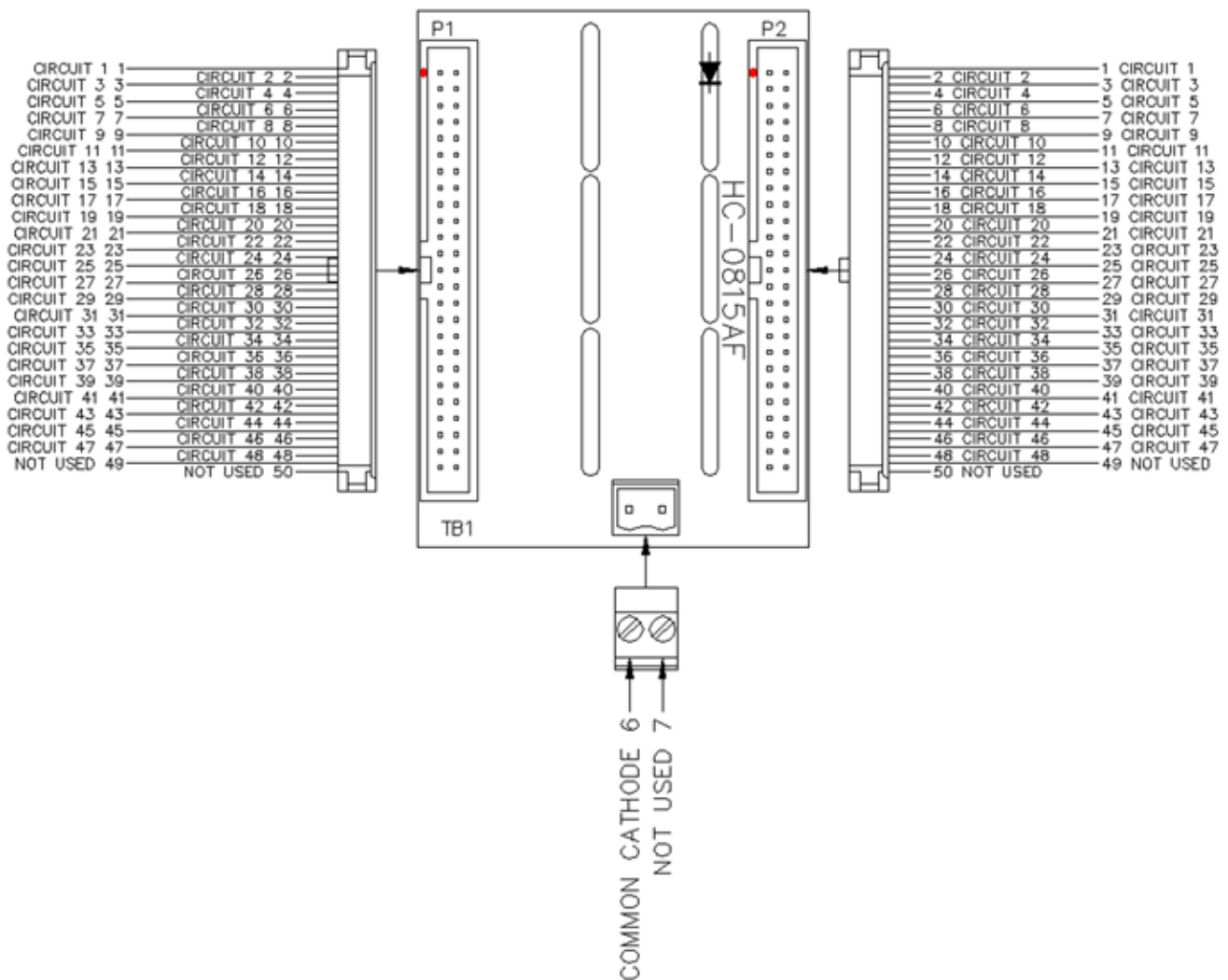
3.25" W x 2.38" L x 1.23" D
82.6mm W x 60.3mm L x 31.4mm D

The Sign of Excellence

MODEL HC-0815E 50 PIN INLINE ADAPTER - 120 OHM RESISTOR HOOK-UP DIAGRAM



MODEL HC-0815F 50 PIN INLINE ADAPTER - COMMON CATHODE





SECURE-TECH

DETENTION ELECTRONIC SYSTEMS

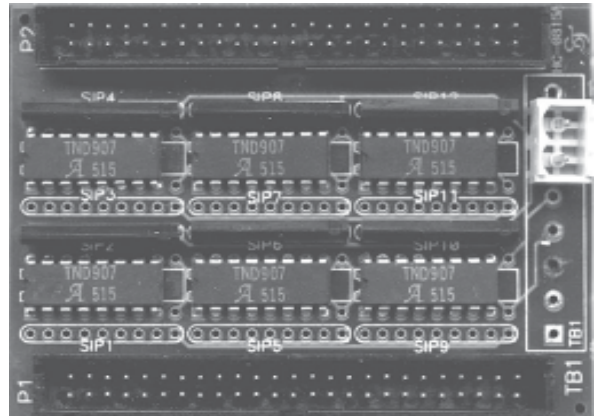
ETECH CONTROLS CORPORATION - MANUFACTURER
4051 ALVIS COURT #3, ROCKLIN, CALIFORNIA, USA 95677
TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

MODEL
HC-0815G

50 PIN INLINE ADAPTER - DIODE PLUS COMMON CATHODE

FEATURES:

- ADDS 48 INLINE DIODES + COMMON CATHODE
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0815G adds an inline diode to forty-eight circuits with a common cathode connection after each.

INPUTS / OUTPUTS:

Two 50-pin male headers are provided for ribbon cable connection. The common cathode is connected to a Phoenix type compression screw terminal plug, sized for 22 to 14 AWG stranded conductors. The mating female plugs are provided.

RATING:

100ma per circuit

SIZE:

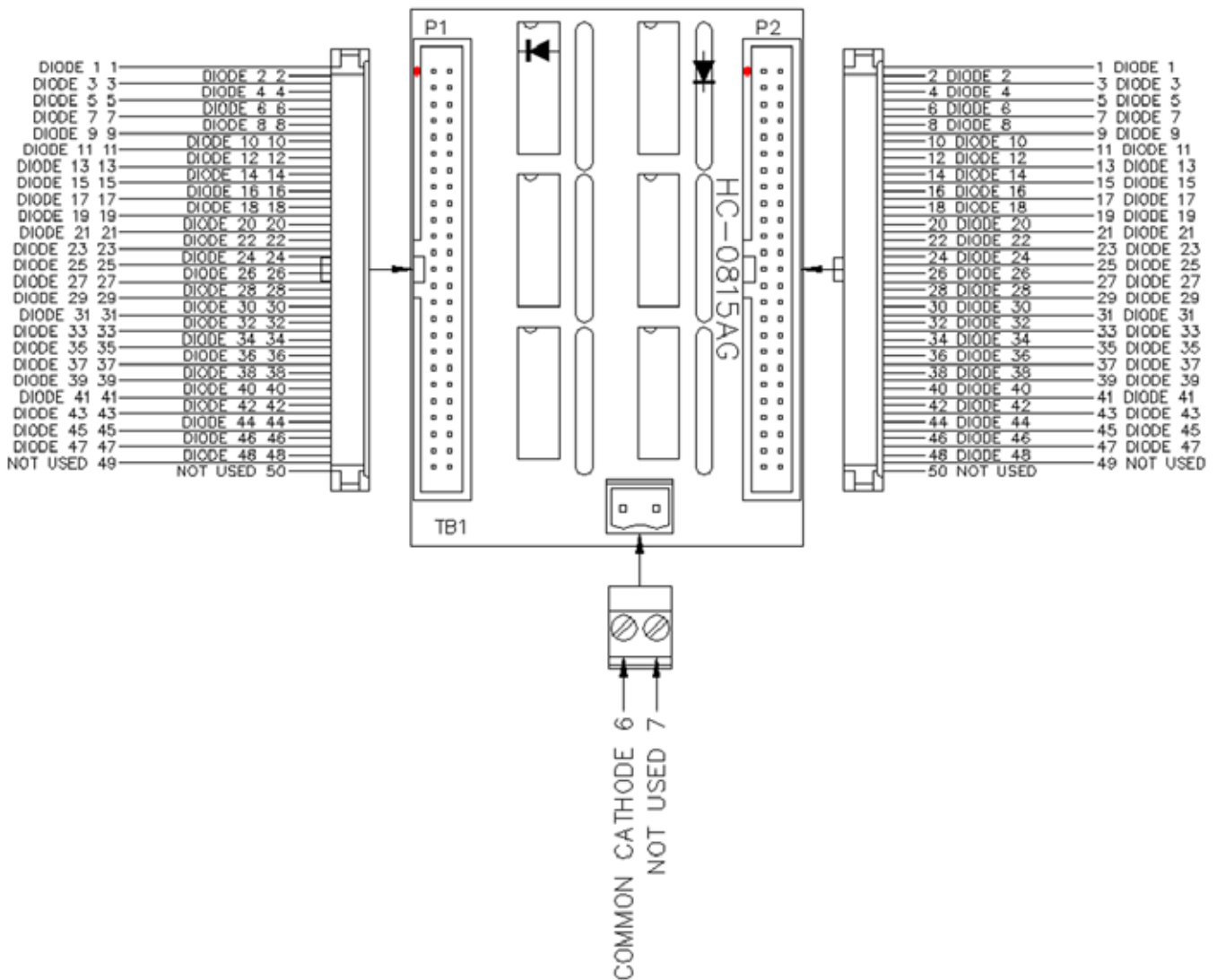
3.25" W x 2.38" L x 1.23" D

82.6mm W x 60.3mm L x 31.4mm D

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MODEL
HC-0815G
50 PIN INLINE ADAPTER - DIODE PLUS COMMON CATHODE

HOOK-UP DIAGRAM





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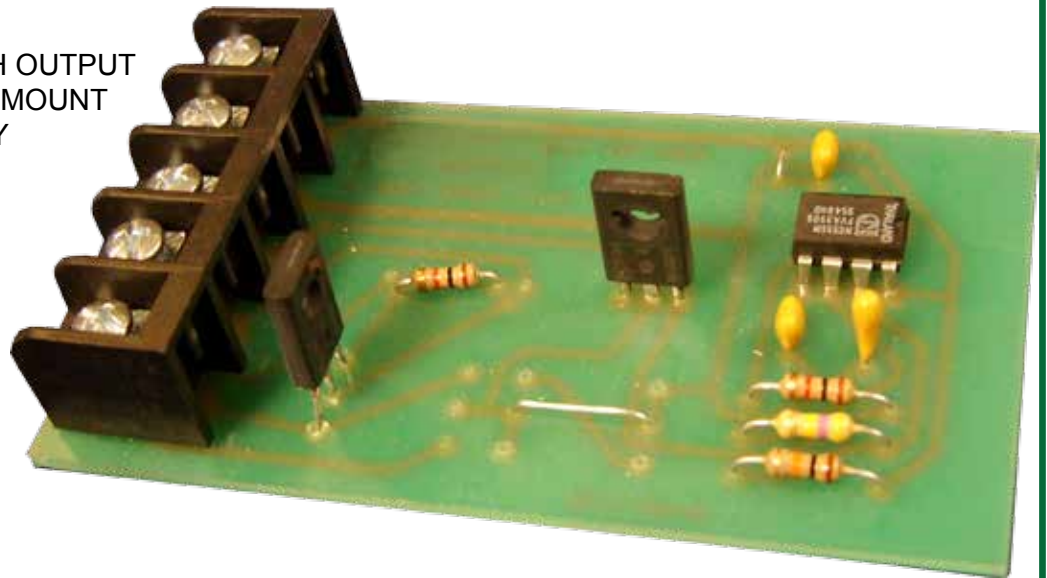
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MODEL
HC-0642

FLASHER

FEATURES:

- 1/2 SECOND FLASH OUTPUT
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0642 provides a half second flash rate output.

INPUTS / OUTPUTS:

The connections are to saddle clamp type screw terminal strip, sized for 22 to 12 AWG stranded conductors.

SIZE:

3.25" W x 1.80" L x 0.562" D
82.6mm W x 46mm L x 14mm D

POWER:

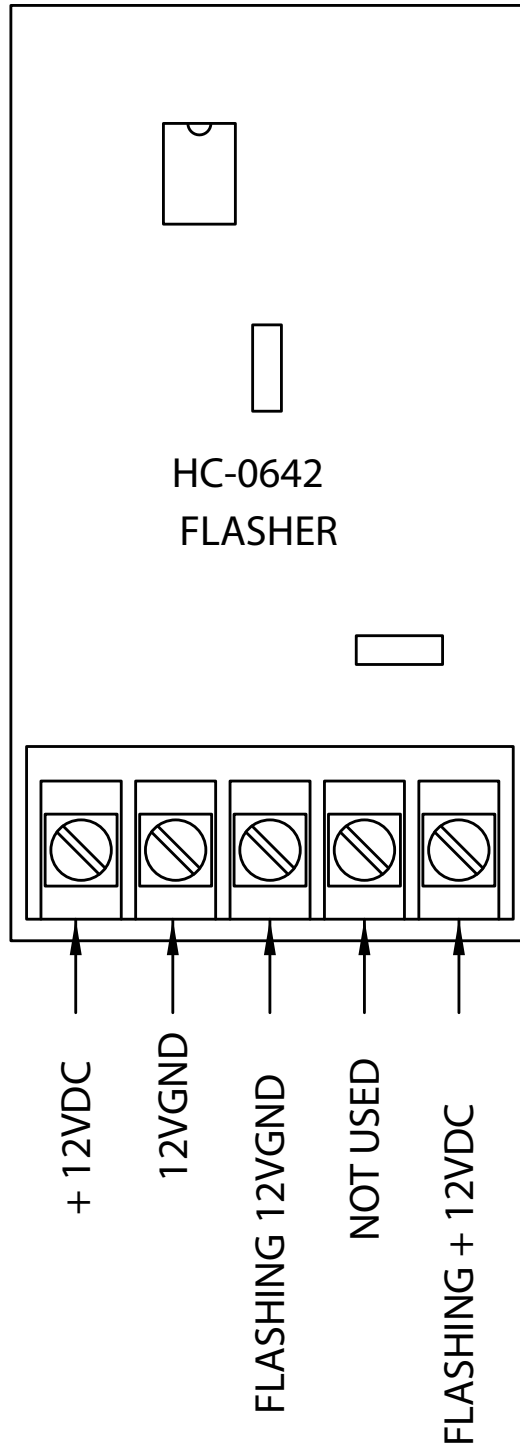
12 - 14 VDC, 1 amp

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MODEL

**HC-0642
FLASHER**

HOOK-UP DIAGRAM





SECURE-TECH

DETENTION ELECTRONIC SYSTEMS

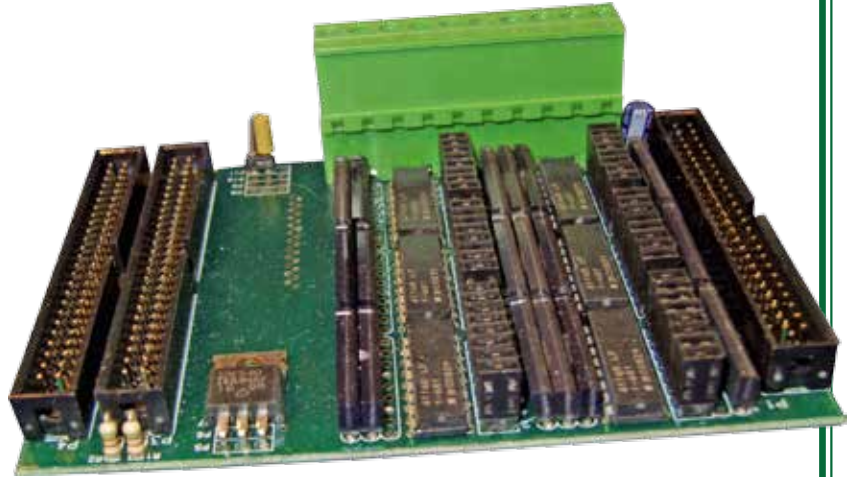
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MODEL
HC-0804

LED SUPERVISION MOTHERBOARD

FEATURES:

- 48 LED STATUS DISPLAY INPUTS
- LAMP TEST INPUT
- 48 SUPERVISED LED OUTPUTS
- TROUBLE LED OUTPUT
- TROUBLE AUDIO ALARM OUTPUT
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0804 is a motherboard that functions in conjunction with the HC-0806 LED Supervision Daughterboard. Forty-eight status display inputs are adapted for supervision of, and output to, the LEDs.

The LEDs being supervised **cannot** have an in-line resistor and **must be 2.4 volts only**. In-line resistors are provided on the motherboard. **Do not use with blue LEDs**. Blue LEDs will be sensed as an open circuit. LED loads should be held to within twenty-five feet (7.62 meters) maximum.

Additional expansion motherboards (-X) may be buss connected together, utilizing a single HC-0806 LED Supervision Daughterboard, providing supervision of forty-eight more status display LEDs each. A single trouble indication LED, and a single trouble audio alarm may be connected to the motherboard that has the single daughterboard.

INPUTS / OUTPUTS:

Power and Lamp Test inputs are connected to Phoenix type compression screw terminal plugs, sized for 22 to 12 AWG stranded conductors. The status display inputs and LED / Trouble outputs are connected via three 50-pin male headers. The mating female ribbon plugs are provided.

RATING:

1 amp per circuit

SIZE:

3.25" W x 4.25" L x 1.24" D
82.5mm W x 108mm L x 31.5mm D

POWER:

12 - 14 VDC, 1 amp (actual connected LEDs load)

MODELS:

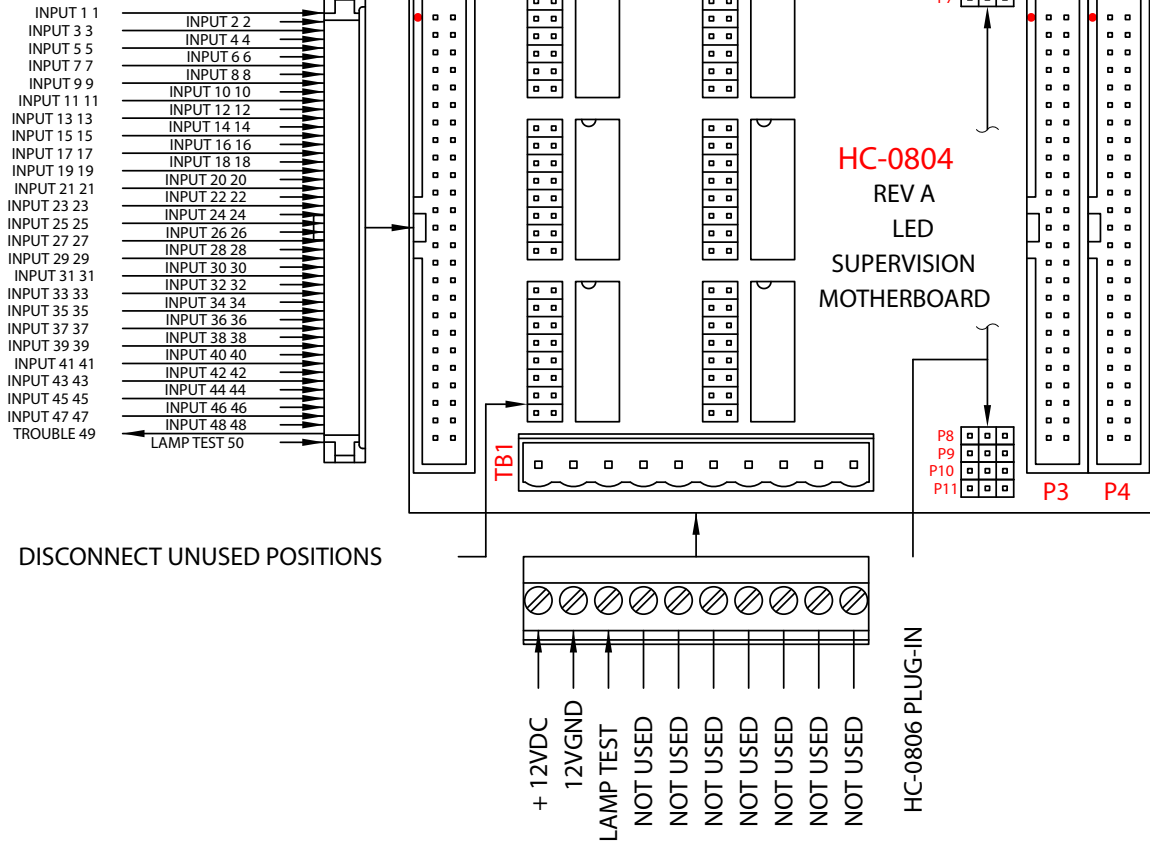
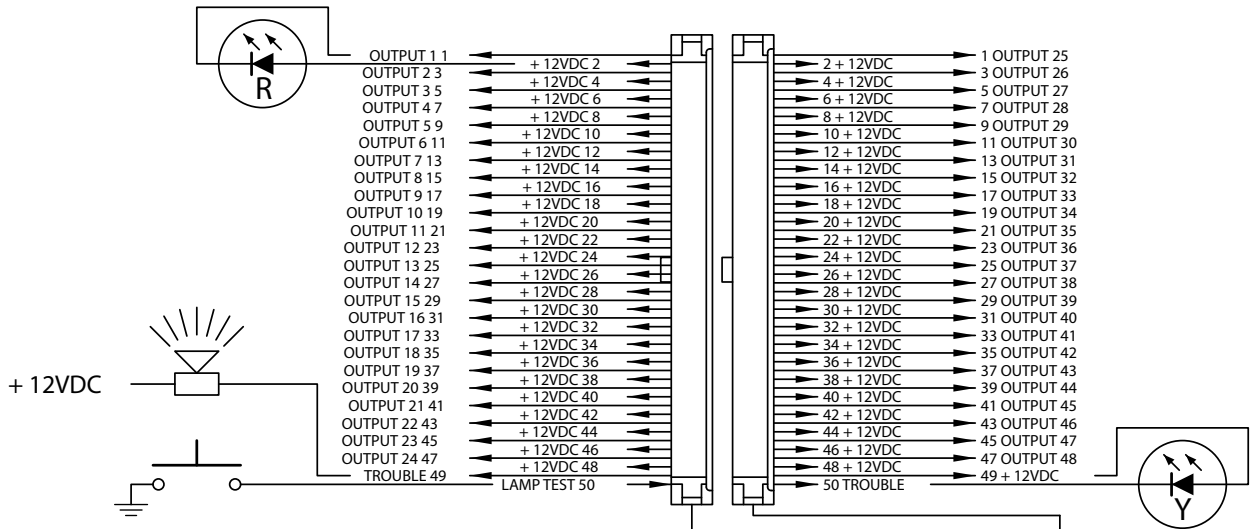
HC-0804AA	Motherboard
HC-0804AB	Sisterboard (no daughterboard connectors)

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MODEL

HC-0804 LED SUPERVISION MOTHERBOARD

HOOK-UP DIAGRAM





SECURE-TECH

DETENTION ELECTRONIC SYSTEMS

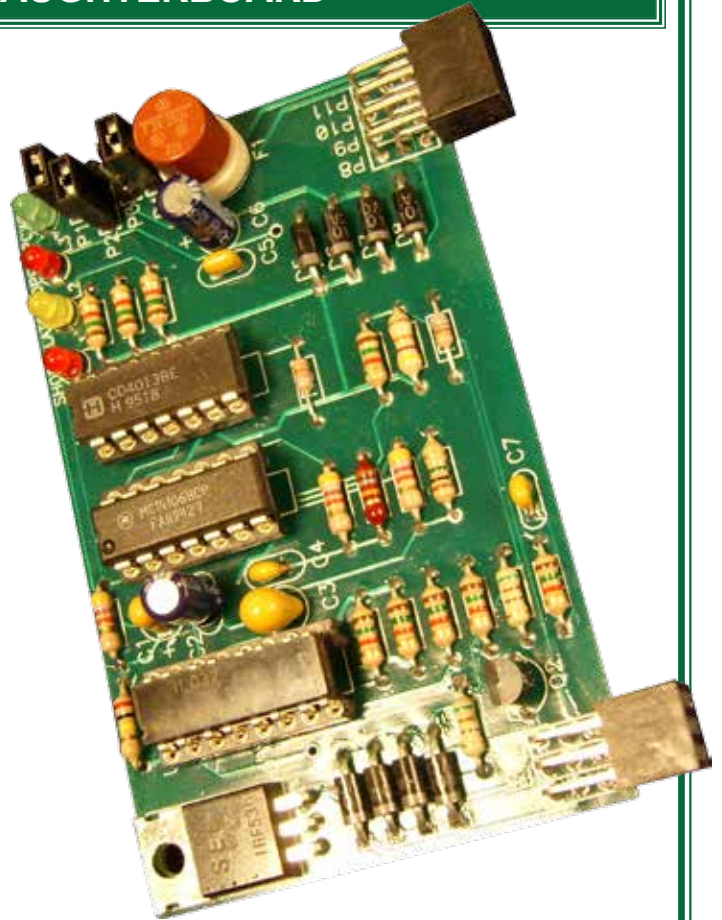
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MODEL
HC-0806

LED SUPERVISION DAUGHTERBOARD

FEATURES:

- 2 WAY FAILURE SUPERVISION
- 4 STATUS LEDs
- AUTOMATIC RESET
- USED WITH HC-0804
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0806 supervises LEDs for short or open condition. Failures are detected with the LED in either the on (illuminating) or off state. Short (red), Latch (yellow), Open (red) and Power (green) status LEDs are provided. When a failure is corrected the supervision circuit automatically resets the control panel indication. The Latch LED continues to indicate the capture of a failure, including an intermittent failure, and must be reset manually at the module.

Supervises 240 LEDs via one HC-0804AA and four HC-0804AB modules.

This daughterboard plugs into the HC-0804AA LED Supervision Motherboard. The mother and daughterboard combination is intended for mounting in the turret of the control panel, or in the very near vicinity (max 9 feet).

SIZE:

3.25" W x 2.30" L x 0.52" D
82.5mm W x 58.4mm L x 13.2mm D

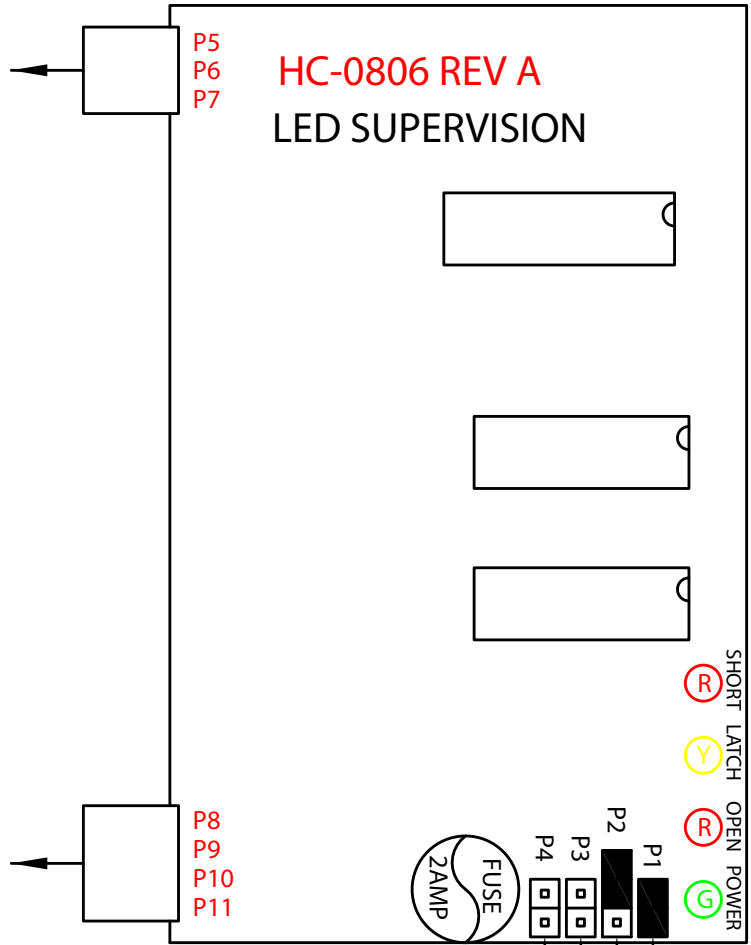
POWER:

Provided by HC-0804AA, 1/2 amp plug-in fuse, green LED indicated

ST The Sign of Excellence

MODEL
HC-0806
LED SUPERVISION DAUGHTERBOARD
HOOK-UP DIAGRAM

PLUGS INTO HC-0804



PLUGS INTO HC-0804

DISCONNECT TROUBLE LED
CONNECT TO RESET LATCH
FACTORY JUMPER
FACTORY JUMPER



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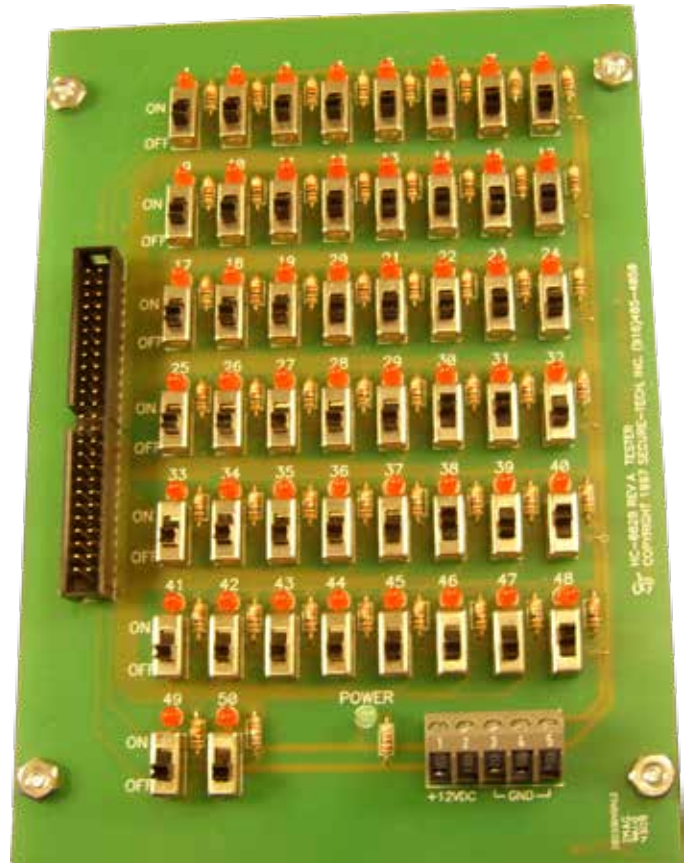
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**MODEL
HC-0828**

50 POINT TESTER

FEATURES:

- 50 SWITCHES
- 50 STATUS LEDs
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0828 provides a convenient means to test fifty separate circuits. Each circuit has a status LED and an on-off switch. A red LED indicates when the circuit is low. A switch is provided to ground the circuit.

INPUTS / OUTPUTS:

Power supply conductors terminate to a compression type screw terminal strip, sized for 22 to 14 AWG stranded conductors. Two 50-conductor ribbons are provided to interface with the various Secure-Tech modules.

Ribbon 1 connectors:

1. 50-pin female
2. 25 pair male
3. 25 pair female

Ribbon 2 connectors:

1. 50-pin female
2. 50-pin female
3. 26-pin female
4. 16-pin female
5. 10-pin female

SIZE:

5.00" W x 7.00" L x 0.54" D
127mm W x 177.8mm L x 13.7mm D

POWER:

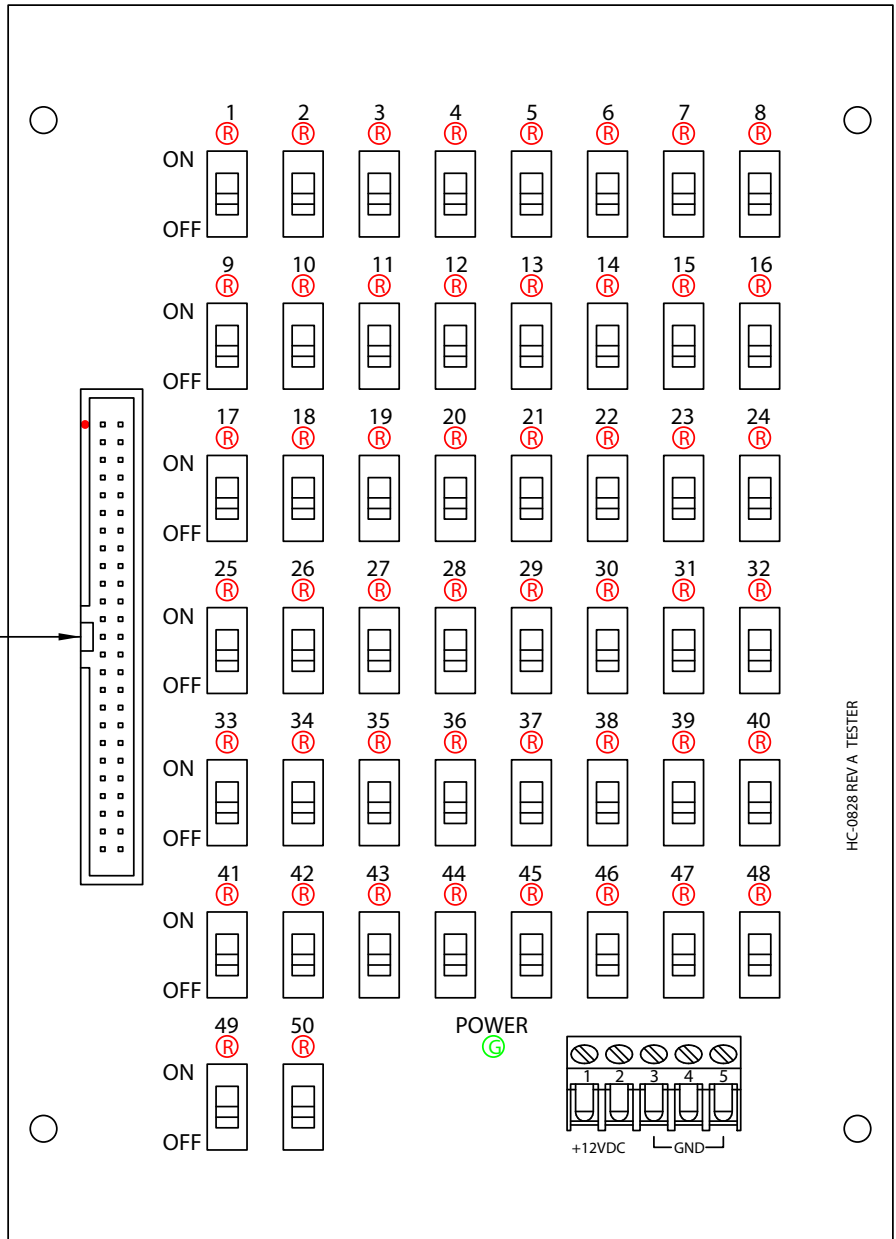
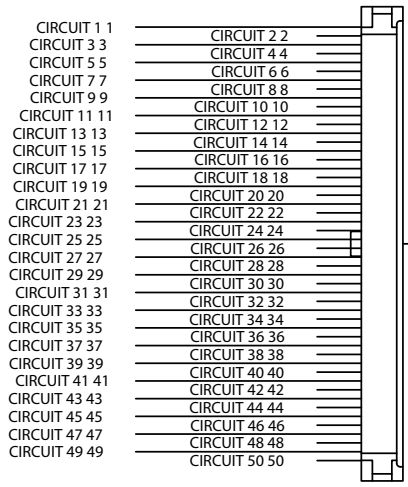
12 - 14 VDC, 1.02 amps max, green LED indicated

The Sign of Excellence

MODEL

HC-0828 50 POINT TESTER

HOOK-UP DIAGRAM



HC-0828 REV A TESTER



SECURE-TECH

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MODEL
4000S-60-12

12 VDC 5.0 AMP POWER SUPPLY



12 VDC, 5 AMPS - Meets NEC Requirement
 Universal AC input/Full range
 Protections: Short circuit/Over load/Over voltage
 Cooling by free air convection
 100% full load burn-in test
 Fixed switching frequency at 50KHz
 Install horizontally or vertically

Universal AC input / Full range
 Over voltage
 Approvals: UL / CUL / TUV / CB / CE
 Cooling by free air convection
 100% full load burn-in test

Protections: Short circuit / Overload /
 Fixed switching frequency at 50KHz

2 years warranty

AC input voltage range
 AC inrush current
 DC adjustment range
 Overload protection

85~264VAC; 120~370VDC
 Cold start, 20A at 115VAC, 40A at 230VAC
 +/-10% rated output voltage
 105%~150% hiccup mode, auto-recovery

Over voltage protection
 Setup, rise, hold up time
 Withstand voltage
 Working temperature
 Safety standards
 EMC standards

115%~135% rated output voltage
 300ms, 50ms, 90ms at full load and 230VAC
 I/P-O/P:3.0KVAC, I/P-FG:1.5KVAC, 1minute
 0~45OC@100%, -10OC@80%, 60OC@60% load
 UL1012, UL60950-1, TUV EN60950-1 approved

Connection
 Size

EN55022 class B, EN61000-3-2,3
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 5P/ 9.5mm pitch terminal block
 6.25" l x 1.5"w x 3.8"h / 0.70CUFT
 (6.25"l x 3.8"w x 1.5"h).

60W Single Output Switching Power Supply

Stock No.	Model No.	Output	Tol.	R&N	Effi.
4000S-60-12	S-60-12 12V, 0~5.0 A		+/-1%	120mV	76%
4000S-60-15	S-60-15 15V, 0~4.0 A		+/-1%	120mV	77%

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