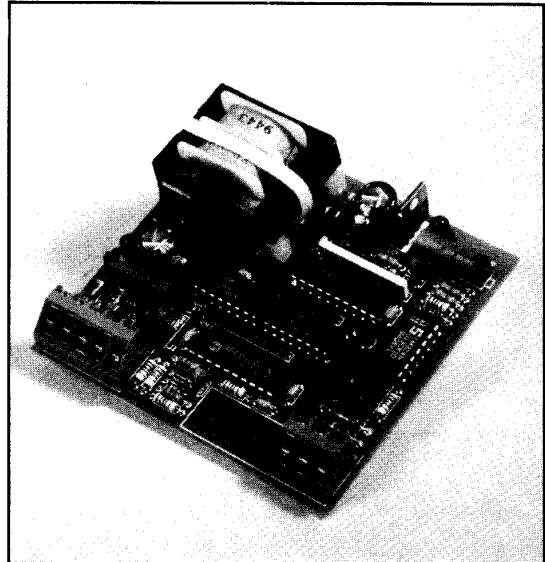


**ANALOG SIGNAL OPTICAL ISOLATION DEVICE****MODEL IM-19****FEATURES:**

- \* 600 VAC / 1500 VDC analog optical isolation
- \* Factory calibrated
- \* Selectable for voltage or current input and output
- \* On-board 24 VAC Isolation Transformer
- \* 2 types of signal attenuation
- \* LED indicators for incoming and outgoing power supply
- \* Snap-track or enclosure available

**APPLICATIONS:**

- \* Ground loop isolation
- \* Florescent light dimmer isolation
- \* Grounded electric actuator isolation
- \* Variable frequency fan drive isolation
- \* General analog input and output isolation

**DESCRIPTION:**

The BEC MODEL IM-19 isolates an analog voltage or current signal optically. The output signal can be field calibrated for non-standard ranges by using the gain and offset adjustments. The IM-19 is factory calibrated and the output is linear and proportional (1:1 ratio) to the input signal. The IM-19 will accept a 0-5 volt, 0-10 volt or 0-20 mA span input, and output any one of those same ranges. Selection of voltage or current input (sink or source) and voltage or current output is done on the board with jumper shunts. The IM-19 requires one external 24 VAC transformer for power. It has an on-board 24 VAC isolation transformer to supply the isolated output. The unit has LED status indicators for both power supplies.

**SPECIFICATIONS:****ELECTRICAL REQUIREMENTS****Power Supply**

Supply Voltage: 24 VAC + or - 10%

Supply Current: 100mA max.

**Input**

Control Signal Input Range: 0-5 vdc  
0-10 vdc  
0-20 mA

Input Impedence: 0-5 volts and 0-10  
volts, 20,000  
ohm 0-20 mA,  
250 ohm





Deadband: 0.3 Vdc (fixed)  
0.6 mA (fixed)  
Optional Deadband: 1.0 Vdc (fixed)  
2.0 mA (fixed)

**Mechanical Requirements**

**Relay Contacts**

Type: Form C, Gold-clad silver  
Rating: 2 amp max. resistance @ 24 volts  
Electrical Life: 100,000 operations @ 1 amp  
Mechanical Life: 10 million operations

**Connections**

Wire Size: Up to one 14 gauge max dia.  
Terminal Type: 45, Captive screw, moving clamp design in nickel plated copper alloy  
Dimensions: 3.25" L x 2.75" W x 1.5" H

Weight: 3.2 oz  
Mounting: Furnished with a 2.75" length of 3.25" wide snap-track

**Environmental Requirements**

Operating Temperature: -20 to 150 deg F  
Operating Humidity: 10 to 95% non-condensing

**ORDERING INFORMATION:**

CVA-18



X - None, Snap-Track  
W - Nema-4, Weatherproof Enclosure

