

**Space-saving Two-wire Signal Conditioners *B-UNIT***

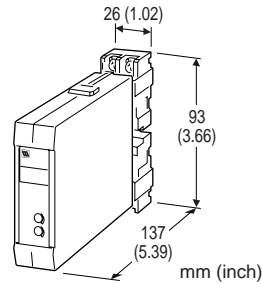
**CT TRANSMITTER**

**MODEL BCT**

**MODEL & SUFFIX CODE SELECTION**

MODEL \_\_\_\_\_ BCT-□  
 INPUT \_\_\_\_\_  
 1 : 0 – 1A AC  
 5 : 0 – 5A AC  
 OUTPUT \_\_\_\_\_  
 4 – 20mA DC  
 SUPPLY VOLTAGE \_\_\_\_\_  
 12 – 60V DC

**ISOLATION**



**Functions & Features**

- Converting an alternating current from a current transformer into an isolated 4 – 20mA DC signal
- Minimal ripple
- True RMS sensing
- CT Protector provided for open-circuit protection
- Monitor terminals
- High-density mounting

**Typical Applications**

- Centralized monitoring and control of motors, pumps or heaters by DCS
- Monitoring power line and power supply current

**ORDERING INFORMATION**

Specify code number. (e.g. BCT-1)

**GENERAL SPECIFICATIONS**

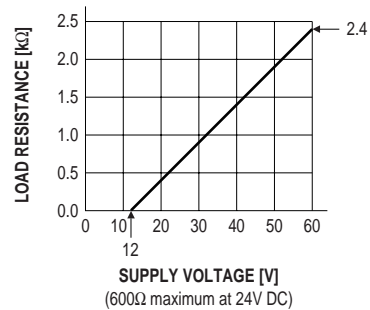
**Construction:** plug-in  
**Connection:** M3.5 screw terminals  
 (nickel-plated steel; torque ≤0.8 N·m)  
**Housing material:** flame-resistant resin (black)  
**Isolation:** input to output  
**Input waveform:** up to 15% of 3rd harmonic content  
**Front adjustments:** zero and span; ±5%

**INPUT & OUTPUT**

■ **INPUT:** 0 – 1A AC or 0 – 5A AC  
**Frequency:** 50 or 60 Hz  
**Input burden:** 0.5VA maximum  
**Overload capacity:** 1000% of rating for 3 sec., 200% for 10 sec., 120% continuous  
**Operational range:** 0 – 120% of rating  
 ■ **OUTPUT:** 4 – 20mA DC  
**Load resistance vs. supply voltage:**

$$\text{Load Resistance } (\Omega) = \frac{\text{Supply Voltage (V)} - 12 \text{ (V)}}{0.02 \text{ (A)}}$$

(including leadwire resistance)



**INSTALLATION**

**Supply voltage:** 12 – 60V DC  
**Operating temperature:** -5 to +55°C (23 to 131°F)  
**Operating humidity:** 30 to 90% RH (non-condensing)  
**Mounting:** surface or DIN rail; Standard Rack  
 Mounting Frame BX-16H available  
**Dimensions:** W26×H93×D137 mm (1.02"×3.66"×5.39")  
 See General Spec. Sheet Figure A.  
**Weight:** 160 g (0.35 lbs)  
**Terminal assignment:** See General Spec. Sheet Figure B-4.

**PERFORMANCE in percentage of span**

**Accuracy:** ±0.3%  
**Temp. coefficient:** ±0.03%/°C (±0.02%/°F)  
**Response time:** ≤0.5 seconds (0 – 90%)  
**Ripple:** 0.5% p-p max. (100/120 Hz)  
**Insulation resistance:** ≥100MΩ with 500V DC  
**Dielectric strength:** 2000V AC @1 minute  
 (input to output)  
 1500V AC @1 minute  
 (input or output to ground)

**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**

