

Isolating Signal Converter with Built-In Txr Supply BD370

Data Sheet Iss 2.0

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Function: A DIN rail mounting 115V AC or 230V AC powered isolating signal converter with a built-in transmitter power supply. The BD370 will accept a 4 to 20mA input signal from a 2 wire transmitter and output an isolated current or voltage signal. The current output provide both an active and a passive output, selected by wiring to the appropriate terminals.

Option: The BD371 is a 48 Volt AC powered version with a 21 Volt DC transmitter power supply.



Photograph representative only

INPUTS:

mA Input with Integral Transmitter Power Supply
4 to 20mA into 62 ohms

Transmitter Power Supply
Nominal 24 Volt DC at 25mA

Option: 21 Volt DC (BD371)

OUTPUTS:

DC Current
0 to 10mA into 10 to 2K ohms
0 to 1mA into 10 to 20K ohms
1 to 5mA into 10 to 4K ohms
4 to 20mA into 10 to 1K ohms

DC Voltage
0 to 1 Volt DC into 100 ohms min
0 to 10 Volt DC into 1K ohms min
Other ranges as required
Minimum span: 1 Volt DC
Maximum span: 10 Volt DC

SUPPLY:

Power Supplies
115 Volt AC $\pm 15\%$ 50/60 Hz or
230 Volt AC $\pm 15\%$ 50/60 Hz
(To be specified at time of order)

Option: 48 Volt AC (BD371)

Power Required
3.0 VA Maximum

GENERAL:

Linearity Error
Proportional to input $\pm 0.1\%$ of span

Response Time
<50 μ Secs - Step 0 to 65%
-3dB at 4.5KHz

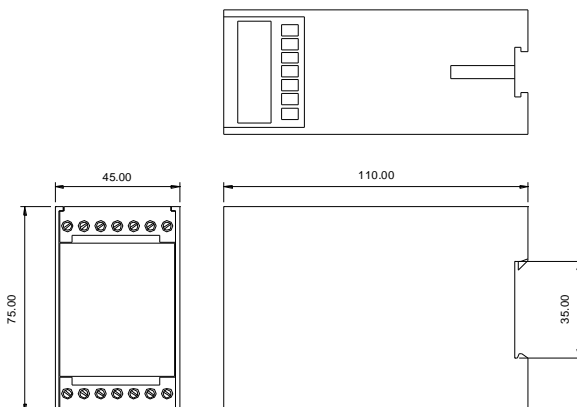
Temperature Coefficient
 $\pm 0.1\%$ of span/ $\Delta 10^\circ\text{C}$

Operating / Storage Temperature Range
0 to $+45^\circ\text{C}$ / -20 to $+60^\circ\text{C}$

Operating / Storage Humidity Range
0 to 95% RH non-condensing

Weight
BD370 / BD371 269 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal
1 Unused
2 -ve from transmitter
3 Unused
4 +ve from transmitter
5 Unused
6 Unused
7 Unused

Terminal
8 Output Active -ve / Passive I +ve
9 Output Active +ve
10 Output Passive I -ve
11 Unused
12 230 Volt $\pm 15\%$ 50/60 Hz
13 115 Volt $\pm 15\%$ 50/60 Hz
14 Neutral

BD371
48 Volt AC
Neutral

ORDERING DETAILS

- Give identification code, i.e. BD370
- Give power supply voltage, i.e. 230 Volt AC
- Give output type and range