*PRODUCT INFORMATION* *B&B ELECTRONICS*

Protect and Isolate Your CAN Nodes
Model CANOP

Model **CANOP** extends the node capacity of your CAN (Control Area Network) system while it protects the CAN network from component killing surges and transients. The CANOP is an optically isolated CAN repeater that provides 2000 VDC of optical isolation. This separates and protects critical segments of the system from the rest of the CAN network. It is protocol independent, allowing it to work with all the different CAN protocols and frame lengths.
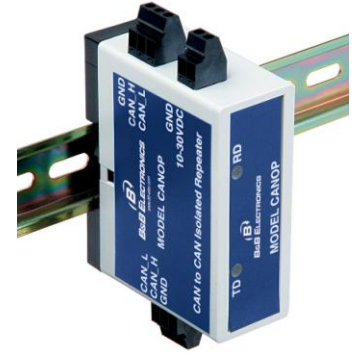
The CAN is connected to the system through terminal blocks. A power supply of 10-30 VDC is required. Model CANOP is housed in a rugged DIN-rail mountable box, making it easy to install in an industrial cabinet.
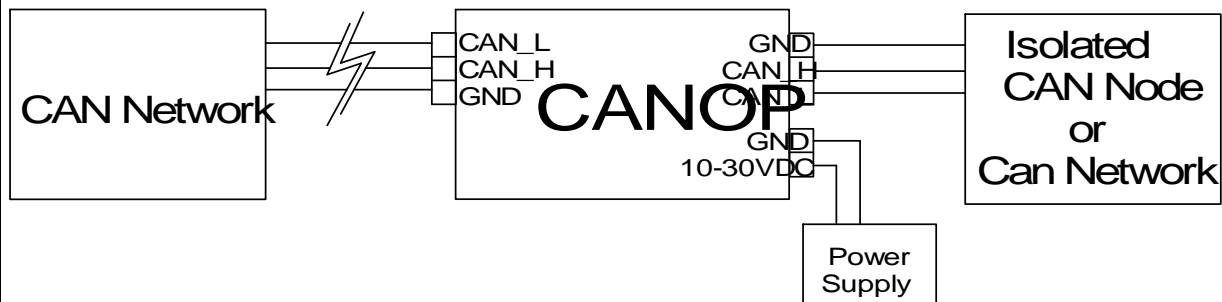
The CAN network must be terminated at both ends according to the CAN specification. Networks not properly terminated may have data errors, or miss the data completely. The CANOP creates two new ends to the CAN network. Space is provided on the board for a termination resistor on each side, R6 and R8. A 120-ohm resistor is recommended for the termination. If the CANOP is not at the end of the network, it should not be terminated.

The CANOP is bit-wise enable, allowing it to automatically adjust for different baud rates. The bit-wise enable only enables the driver on every low bit received. It also disables the driver on the receive side for the low bit plus a maximum of 2 μ seconds. This prevents data from echoing back from the CANOP, but allows the nodes to respond back.

Specifications

Max. Baud Rate:	250 kbps
Power Supply:	10 to 30 VDC
Power:	150 mA @ 12V, fully loaded
Isolation:	2000 VDC
Turnaround:	< 2 μ seconds
LEDs:	1 TD, 1 RD. May be difficult to see at higher baud rates.
Dimensions:	4.0 x 3.4 x 1.4 in (9.3 x 8.6 x 3.6 cm)
Temperature Range:	0°C to 70°C