

NEPEAN
Power

Single Element AC Current Transducer



AVAILABLE FROM
NEPEAN ELECTRONICS



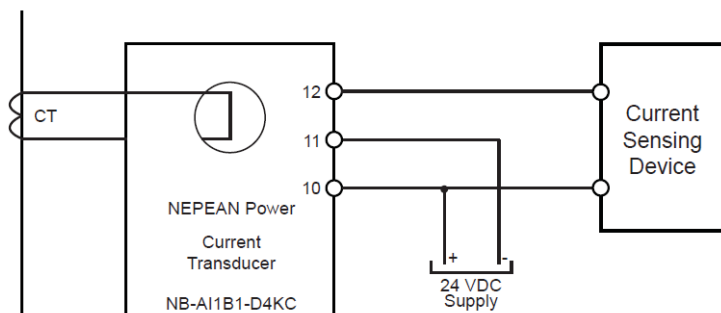
NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The NEPEAN Power Single Element AC Current Transducer isolates the measured AC current signals through isolated components and converts into proportional linear signals 4-20mA. These transducers are appropriate for use in a vast range of industry applications such as mining, oil and gas, power grid monitoring, motor signal monitoring, railways and more.

Features

- Utilises advanced SMT technology to ensure high precision and long-term stability
- Insulated between input signals and output signals
- Strong anti-interference ability allowing the transducer withstand high surge voltage impact
- Compact design suitable for DIN rail installation

Connection Diagram



Technical Specification

Part Number		NB-AI1B1-D4KC
Basic Accuracy		Class 0.5
Power Supply		24V
Input Current Range		AC 30A-300A
Input Frequency		50-3000Hz
Output Signals		4-20mA
Operating Temperature		-10°C to 60°C
Load of Output	Voltage	$\geq 2K\Omega$
	Current	$\leq 250\Omega$
Static Power		$\leq 0.3W$
Rated Power		$\leq 0.7W$
Load of Insulation Voltage		DC 2500V
Response Time		$\leq 300ms$
Thermal Drift		$\leq 300PPm/^{\circ}C$
Lightening Surge	Power End	2000V
	Input End	10000A
	Output End	500V
Case Style		K
Case Materials		ABS (flame retardant)
Installation		35mm DIN Rail
Dimensions		116mm x 25mm x 87mm
Hole Diameter		6.2mm

Single Element AC Current Transducer

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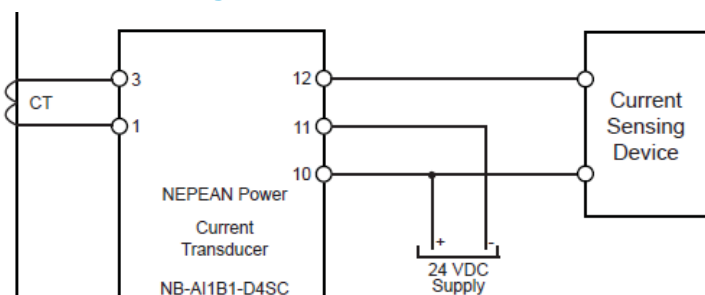
NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The NEPEAN Power Single Element AC Current Transducer isolates the measured AC current input signals, converts and exports linear signals 4-20mA. These transducers are appropriate for use in a vast range of industry applications such as mining, oil and gas, power grid monitoring, motor signal monitoring, railways and more.

Features

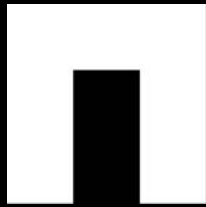
- Utilises advanced SMT technology to ensure high precision and long-term stability
- Insulated between input signals and output signals
- Strong anti-interference ability allowing the transducer withstand high surge voltage impact
- Compact design suitable for DIN rail installation

Connection Diagram



Technical Specification

Part Number		NB-A11B1-D4SC
Basic Accuracy		Class 0.5
Power Supply		24V
Input Current Range		AC 0-5A
Input Frequency		50-3000Hz
Output Signals		4-20mA
Operating Temperature		-10°C to 60°C
Load of Output	Voltage	≥2KΩ
	Current	≤250Ω
Static Power		≤0.3W
Rated Power		≤0.7W
Load of Insulation Voltage		DC 2500V
Response Time		≤300ms
Thermal Drift		≤300PPm/°C
Lightening Surge	Power End	2000V
	Input End	10000A
	Output End	500V
Case Style		S
Case Materials		ABS (flame retardant)
Installation		35mm DIN Rail
Dimensions		116mm x 25mm x 42mm



NEPEAN
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Single Element DC Current Transducer



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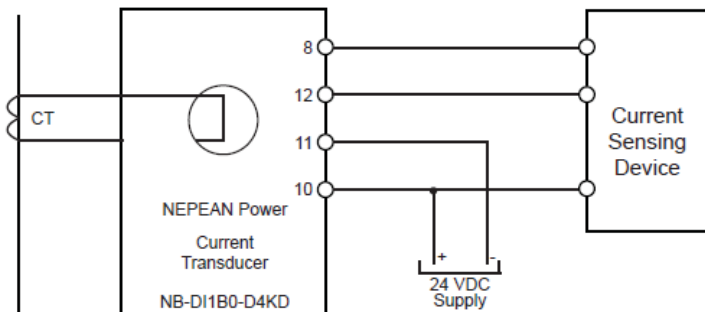
NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The NEPEAN Power Single Element DC Current Transducer isolates the measured DC current signals through isolated components, converts and exports linear signals 4-20mA. These transducers are appropriate for use in a vast range of industry applications such as mining, oil and gas, power grid monitoring, motor signal monitoring, railways and more.

Features

- Utilises advanced SMT technology to ensure high precision and long-term stability
- Insulated between input signals and output signals
- Strong anti-interference ability allowing the transducer withstand high surge voltage impact
- Compact design suitable for DIN rail installation
- Complies to ISO9001, CE, ROHS

Connection Diagram



Technical Specification

Part Number		NB-DI1B0-D4KD
Basic Accuracy		Class 1.0
Power Supply		24V
Input Current Range		DC 20-400A
Input Frequency		50-3000Hz
Output Signals		4-20mA
Operating Temperature		-10°C to 60°C
Load of Output	Voltage	≥2KΩ
	Current	≤250Ω
Static Power		≤0.3W
Rated Power		≤0.7W
Load of Insulation Voltage		DC 2500V
Response Time		≤200ms
Thermal Drift		≤500PPm/°C
Lightening Surge	Power End	2000V
	Input End	10000A
	Output End	500V
Case Style		K
Case Materials		ABS (flame retardant)
Installation		35mm DIN Rail
Dimensions		116mm x 25mm x 87mm
Hole Diameter		22mm

Triple Element AC Current Transducer



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NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The NEPEAN Power Triple Element AC Current Transducer detects AC currents through a wire and generates a signal which is proportional to that current. The generated signal could be analog voltage, current or even a digital output. The generated signal can then be used to display the measured current in an ammeter, or can be stored for further analysis in a data acquisition system so it can also be used for the purpose of control.

Features

- Advanced SMT technology to ensure high precision and long term stability
- Insulated between input and output signals; Insulation voltage can reach 2500VDC or greater.
- Strong anti-interference ability. Withstands high surge voltage impact
- Capable of supporting various signal output modes
- Capable of supporting various power supplying modes
- Compact design suitable for DIN rail installation
- Quality certifications

Technical Specification

Part Number		NB-AI3B1-D4EC
Basic Accuracy		Class 0.5
Power Supply		24V DC
Input Current Range		AC 1~50A AC
Input Frequency		50~3000Hz
Output Signals		4-20mA
Operating Temperature		-10°C to 60°C
Load of Output	Voltage	≥2KΩ
	Current	≤250Ω
Static Power		≤0.5W
Rated Power		≤1.5W
Load of Insulation Voltage		DC 2500V
Response Time		≤300ms
Thermal Drift		≤300PPm/°C
Lightening Surge	Power End	2000V
	Input End	10000A
	Output End	500V
Case Style		E
Case Materials		ABS (flame retardant)
Installation		35mm DIN Rail
Dimensions		116mm x 25mm x 87mm
Hole Diameter		6.2mm