

HALL EFFECT CT 35mm Aperture (800A) HCT024

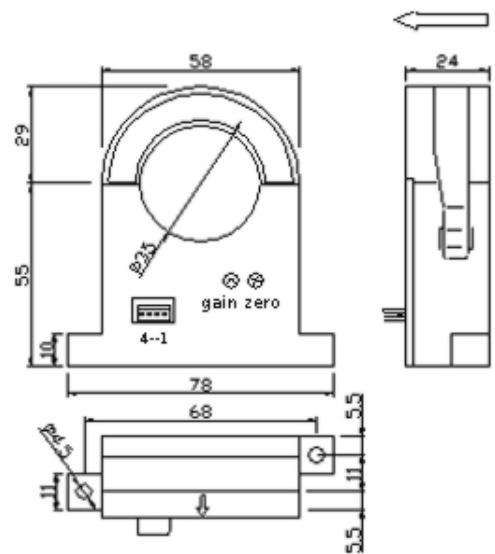
DESCRIPTION

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit.



General Specifications

Input Current:	+/- 800Adc depending on range ordered.
Measurement Output:	+/- 5Vdc
Response time T_{90} :	10 μ S
Accuracy	1%
Linearity error:	< 0.4%
Offset voltage	\pm 20mV
Hysteresis error	\pm 10mV
Output impedance:	100 Ω
Minimum output load:	8k2 Ω
recommended output load:	\geq 15k Ω
Zero adjustment:	\pm 2%
Span adjustment:	\pm 20%
Temperature drift	\leq 500ppm/ $^{\circ}$ C
Current consumption	\leq 25mA
Power Supply:	\pm 15Vdc \pm 5% regulated
Isolation	3 kVrms / 50Hz / min
Overload:	16000A
Operating temperature range	-10 $^{\circ}$ C~+80 $^{\circ}$ C
Storage temperature range	-25 $^{\circ}$ C~85 $^{\circ}$ C
Fire redundancy	UL94-V0

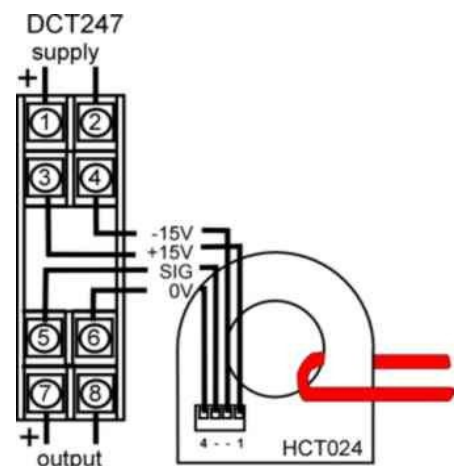


Ordering Information

HCT024-800 = 800A input
HCT024-400 = 400A input

Application

The HCT024 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.

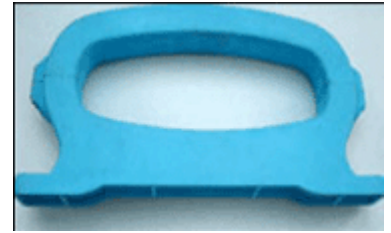


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HALL EFFECT CT 6000A HCT019

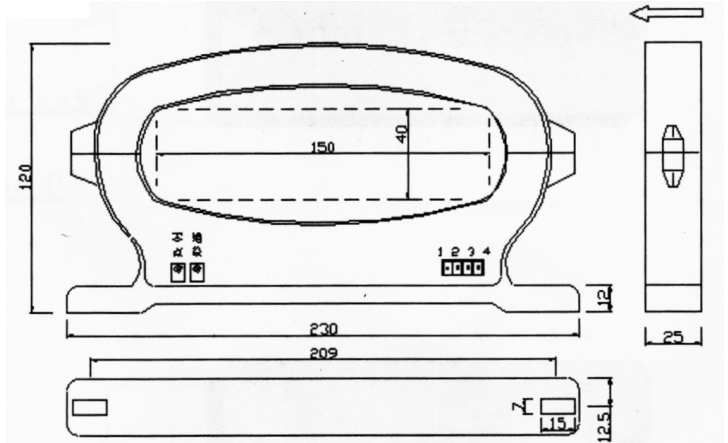
Description

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit. The 150 x 40mm window can be opened up by unscrewing the top for ease of installation



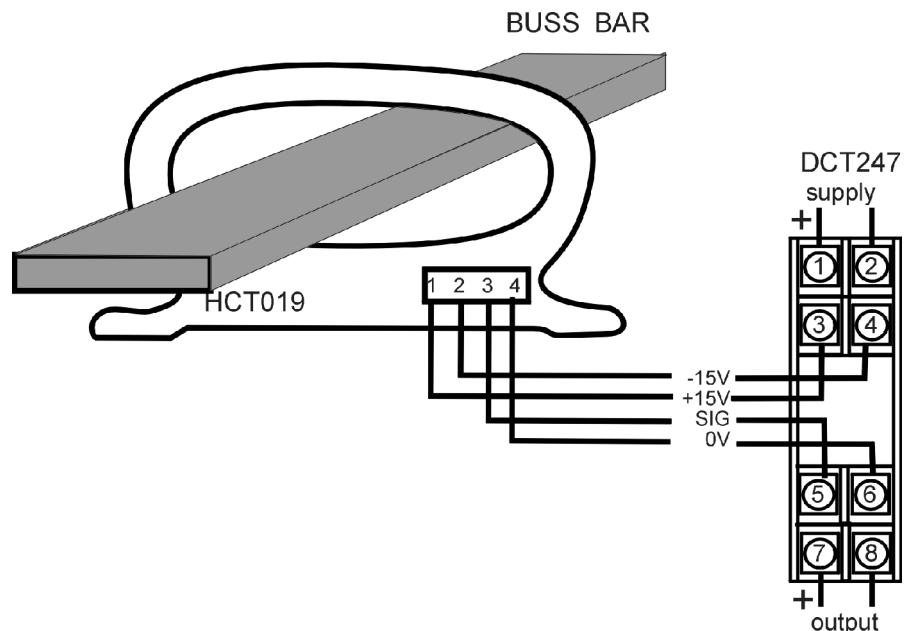
General Specifications

Input Current:	+/- 800 to +/-6000Adc
Measurement Output:	+/- 5Vdc
Response time T ₉₀ :	≤30μS
Accuracy	1%
Linearity error:	< 0.4%
Offset voltage	±20mV
Hysteresis error	±10mV
Output impedance:	100Ω
Minimum output load:	8k2Ω
recommended output load:	≥15kΩ
Zero adjustment:	± 2%
Span adjustment:	± 20%
Temperature drift	≤250ppm/°C
Current consumption	≤25mA
Power Supply:	± 15Vdc ± 5% regulated
Isolation	3 kVrms / 50Hz / min
Overload:	8000A
Operating temperature range	-10°C~+80°C
Storage temperature range	-25°C~85°C
Fire retardancy	UL94-V0



Application

The HCT019 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.

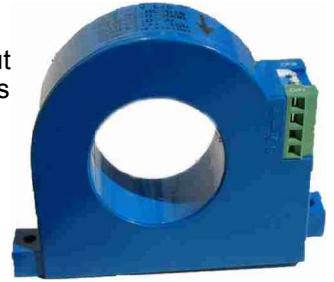


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HALL EFFECT CT 400A HCT018

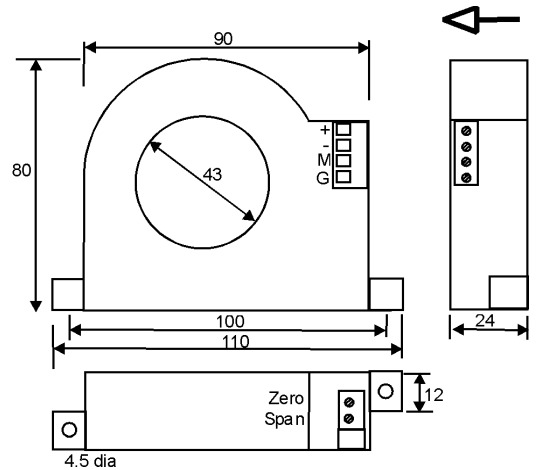
Description

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit.



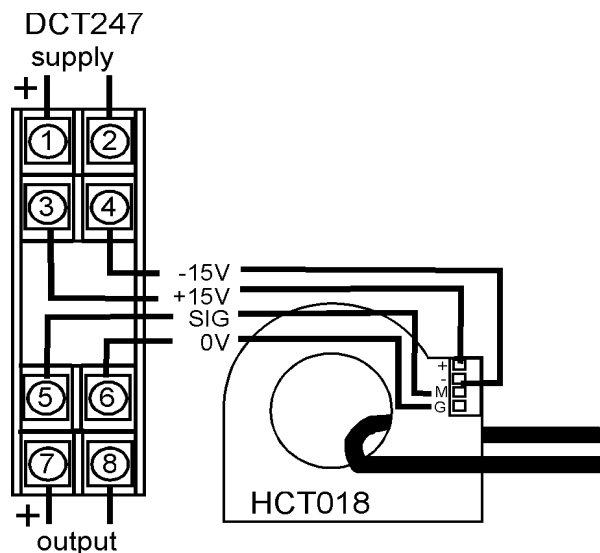
General Specifications

Input Current:	+/- 400Adc
Measurement Output:	+/- 5Vdc
Response time T_{90} :	$\leq 30\mu S$
Accuracy	1%
Linearity error:	< 0.4%
Offset voltage	$\pm 20mV$
Hysteresis error	$\pm 10mV$
Output impedance:	100 Ω
Minimum output load:	8k2 Ω
recommended output load:	$\geq 15k\Omega$
Zero adjustment:	$\pm 2\%$
Span adjustment:	$\pm 20\%$
Temperature drift	$\leq 250ppm/^{\circ}C$
Current consumption	$\leq 25mA$
Power Supply:	$\pm 15Vdc \pm 5\%$ regulated
Isolation	3 kVrms / 50Hz / min
Overload:	8000A
Operating temperature range	-10 $^{\circ}C$ ~+80 $^{\circ}C$
Storage temperature range	-25 $^{\circ}C$ ~85 $^{\circ}C$
Fire retardancy	UL94-V0



Application

The HCT018 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.



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HALL EFFECT CT 100A HCT017

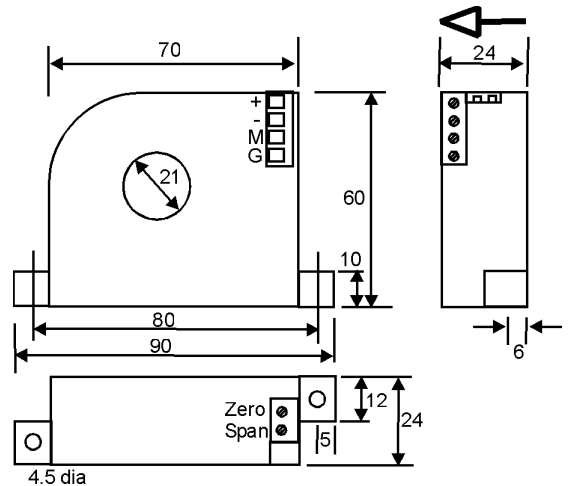
Description

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit.



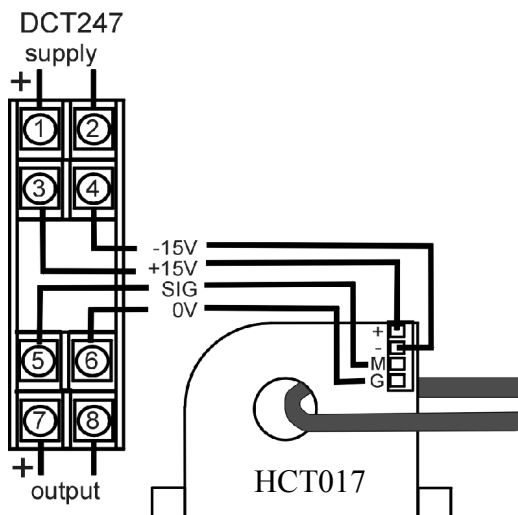
General Specifications

Input Current:	+/- 100A dc
Measurement Output:	+/- 5Vdc
Response time T_{90} :	$\leq 30\mu s$
Accuracy	1%
Linearity error:	$< 0.4\%$
Offset voltage	$\pm 20mV$
Hysteresis error	$\pm 10mV$
Output impedance:	100 Ω
Minimum output load:	8k Ω
recommended output load:	$\geq 15k\Omega$
Zero adjustment:	$\pm 2\%$
Span adjustment:	$\pm 20\%$
Temperature drift	$\leq 250ppm/^{\circ}C$
Current consumption	$\leq 25mA$
Power Supply:	$\pm 15Vdc \pm 5\%$ regulated
Isolation	3 kVrms / 50Hz / min
Overload:	2000A
Operating temperature range	-10 $^{\circ}C \sim +80^{\circ}C$
Storage temperature range	-25 $^{\circ}C \sim 85^{\circ}C$
Fire retardancy	UL94-V0



Application

The HCT017 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.



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HALL EFFECT CT 50A HCT016

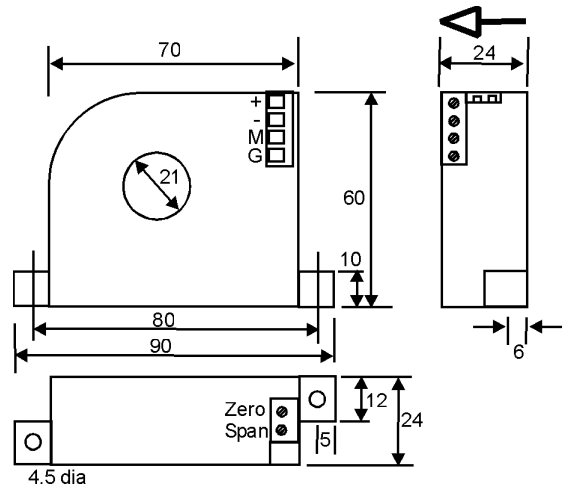
Description

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit.



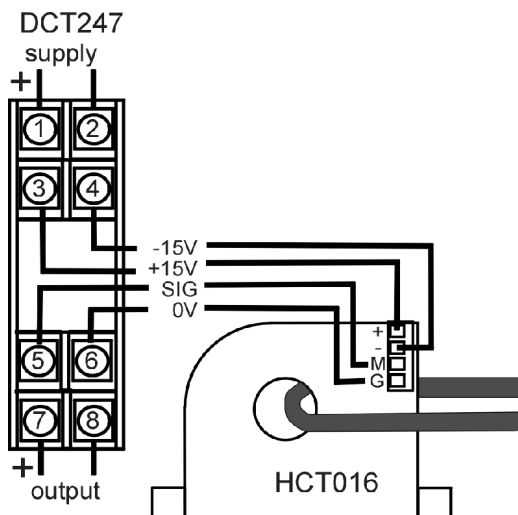
General Specifications

Input Current:	+/- 50Adc
Measurement Output:	+/- 5Vdc
Response time T_{90} :	$\leq 30\mu\text{s}$
Accuracy	1%
Linearity error:	$< 0.4\%$
Offset voltage	$\pm 20\text{mV}$
Hysteresis error	$\pm 10\text{mV}$
Output impedance:	100 Ω
Minimum output load:	8k2 Ω
recommended output load:	$\geq 15\text{k}\Omega$
Zero adjustment:	$\pm 2\%$
Span adjustment:	$\pm 20\%$
Temperature drift	$\leq 250\text{ppm}/^\circ\text{C}$
Current consumption	$\leq 25\text{mA}$
Power Supply:	$\pm 15\text{Vdc} \pm 5\%$ regulated
Isolation	3 kVrms / 50Hz / min
Overload:	1000A
Operating temperature range	$-10^\circ\text{C} \sim +80^\circ\text{C}$
Storage temperature range	$-25^\circ\text{C} \sim 85^\circ\text{C}$
Fire retardancy	UL94-V0



Application

The HCT016 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.



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