



VDCT Series DC Voltage Transducers



The VDCT series DC voltage transducers are high-performance transducers for sensing voltage in DC powered installations. Applicable on circuits up to 50VDC, the VDCT series models provide a fully isolated, 4-20 mA output proportional to rated nominal voltage in DC circuits. Housed in a slim, compact, easy-to-install DIN rail mounted enclosure, the VDCT series comes in two different nominal voltage ranges.

Applications

- Detect below normal or "brown out" voltage conditions; protect against possible motor overheating.
- Monitor over voltage conditions associated with regenerative voltage to help in diagnosing/avoiding motor drive issues.
- Detect voltage conditions which may cause stress in or damage to soft starter components (SCRs).

Features

- **Accurate Output:** Two ranges available for your application, up to 50VDC
- **Standard 4-20 mA Output:** Industry standard output makes use with existing controllers, data loggers and SCADA equipment easy and reliable.
- **Input/Output Isolation:** Input and output circuitry electrically isolated for improved safety of use.
- **Compact DIN rail Mount Enclosure:** Space saving 35mm wide enclosure makes installation quick and easy.
- **Five-year warranty**



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Part Number	Description	Pcs/Pkg	Wt (lb)	Price
<u>VDCT015-42-24</u>	AcuAMP DC voltage transducer, 0-15 VDC sensing range, 4-20mA output.	1	0.25	\$190.00
<u>VDCT050-42-24</u>	AcuAMP DC voltage transducer, 0-50 VDC sensing range, 4-20mA output.	1	0.25	\$190.00

VDCT Series Specifications

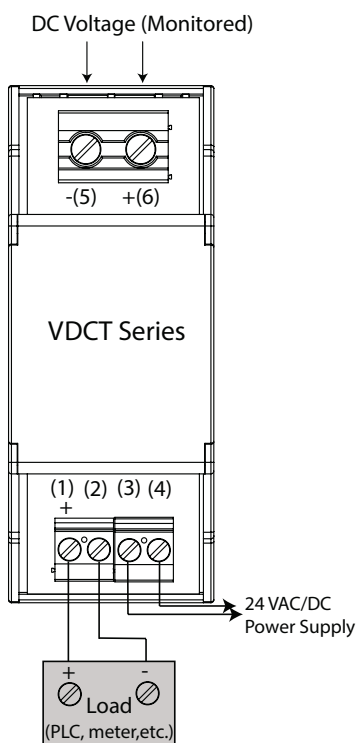
Power Supply	24 VAC/VDC External Power, A fuse rated maximum 5 A shall be placed in series with the main input, 24 VAC/VDC, power terminal. (22-26 VAC/VDC)
Power Consumption	< 2VA @ 24VDC; < 5VA @ 24VAC
Input	15V (for monitoring 12VDC) and 50V (for monitoring 24, 36, 48 VDC), not to exceed 600VDC
Input Impedance	15V: 25KΩ, 50V: 82KΩ
Output	4-20mA proportional; capped at 24mA max
Response Time	250ms (to 90% value)
Accuracy	<1%
Linearity	<0.5%
Output Impedance	500Ω maximum
Isolation Voltage	2500 Volts per UL
Frequency Range	DC
Case	UL94V-0 Flammability Rating
Environmental	Operating temperature: -4 to 122°F (-20 to 50°C)
	Relative humidity: 0-95% RH, Non-condensing
	Pollution Degree 2
	Altitude to 2000 meters
Certifications	cULus listed (E222847), CE

Note: Power and output are not isolated. Do not connect together.



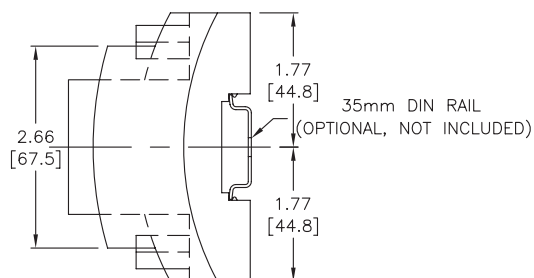
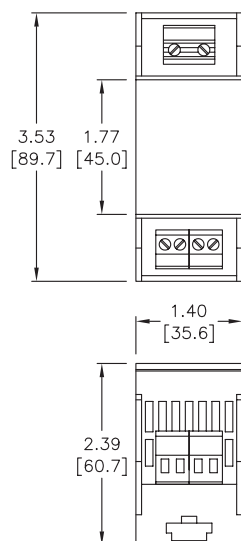
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Wiring



Dimensions

Inches [mm]



VDCT Series

See our website www.AutomationDirect.com for complete Engineering drawings.