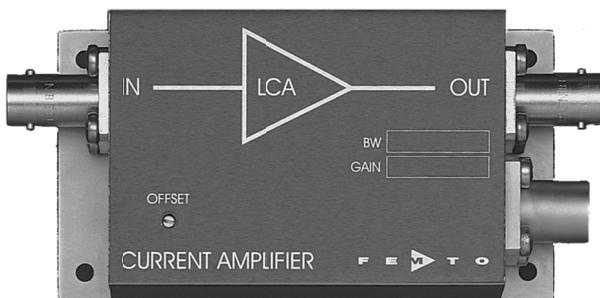
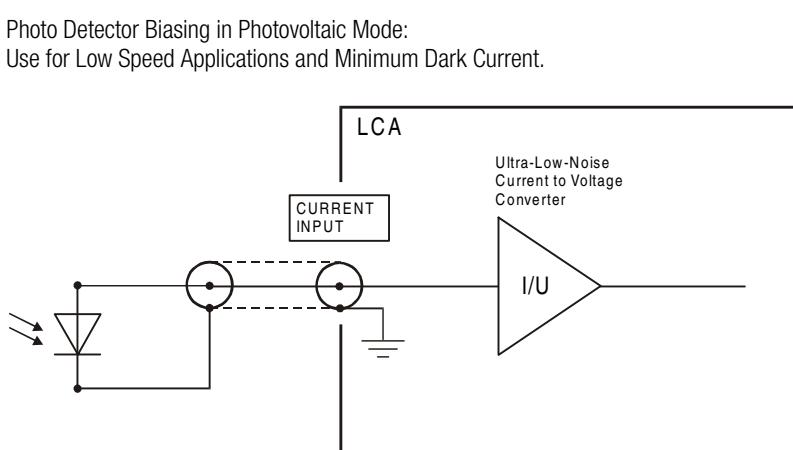
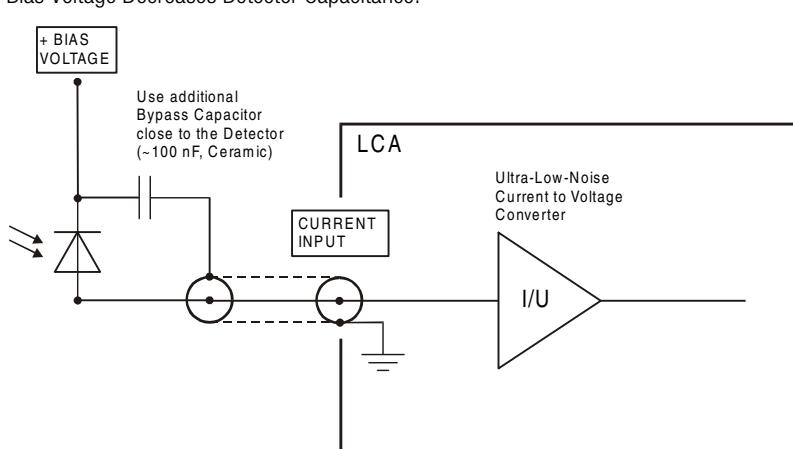


Ultra-Low-Noise Current Amplifier



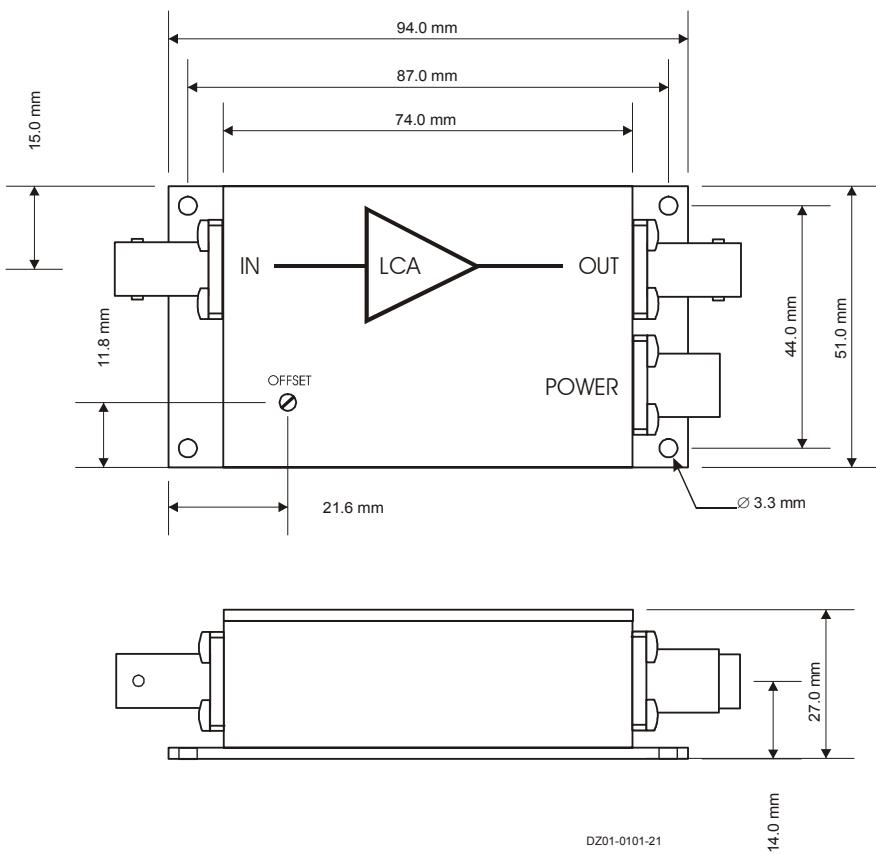
Features	<ul style="list-style-type: none"> • Bandwidth and Frequency Response Independent of Detector-Capacitance (up to 10 nF) • Extremely Low Noise, 1.5 fA/$\sqrt{\text{Hz}}$ Equivalent Input Noise Current • Bandwidth DC ... 200 Hz • Transimpedance (Gain) $1 \times 10^{11} \text{ V/A}$ 	
Applications	<ul style="list-style-type: none"> • Photodiode- and Photomultiplier-Amplifier • Spectroscopy • Charge-Amplifier • Ionisation Detectors • Preamplifier for Lock-Ins, A/D-Converters, etc. 	
Specifications	<i>Test Conditions</i>	$V_S = \pm 15 \text{ V}, T_a = 25^\circ\text{C}$ <i>Warm-up 20 minutes (min. 10 minutes recommended)</i>
	Gain	Transimpedance Accuracy
	Frequency Response	Lower Cut-Off Frequency Upper Cut-Off Frequency Rise- / Fall-Time Gain Flatness
	Input	Equ. Input Noise Current Equ. Input Noise Voltage Input Bias Current Input Bias Current Drift Offset Current Compensation Max. Input Current Input Offset Voltage DC Input Impedance
	Output	Output Voltage Output Impedance Max. Output Current
	Power Supply	Supply Voltage Supply Current
	Case	Weight Material
	Temperature Range	Storage Temperature Operating Temperature

Ultra-Low-Noise Current Amplifier

Absolute Maximum Ratings	Input Voltage Power Supply Voltage $\pm 10\text{ V}$ $\pm 22\text{ V}$
Connectors	Input BNC Output BNC Power Supply LEMO Series 1S, 3-pin Fixed Socket Pin 1: +15V Pin 2: -15V Pin 3: GND
Application Diagrams	<p>Photo Detector Biasing in Photovoltaic Mode: Use for Low Speed Applications and Minimum Dark Current.</p>  <div style="text-align: right;">AZ02-0101-20</div> <p>Photo Detector Biasing in Photoconductive Mode: Use for Fast Applications and if More Dark Current is Tolerable. Bias Voltage Decreases Detector Capacitance.</p>  <div style="text-align: right;">AZ01-0101-20</div>

Ultra-Low-Noise Current Amplifier

Dimensions



DZ01-0101-21

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