



Datasheet

LCA-S-400K-IN

Low Noise 400 kHz Photoreceiver with InGaAs PIN Photodiode



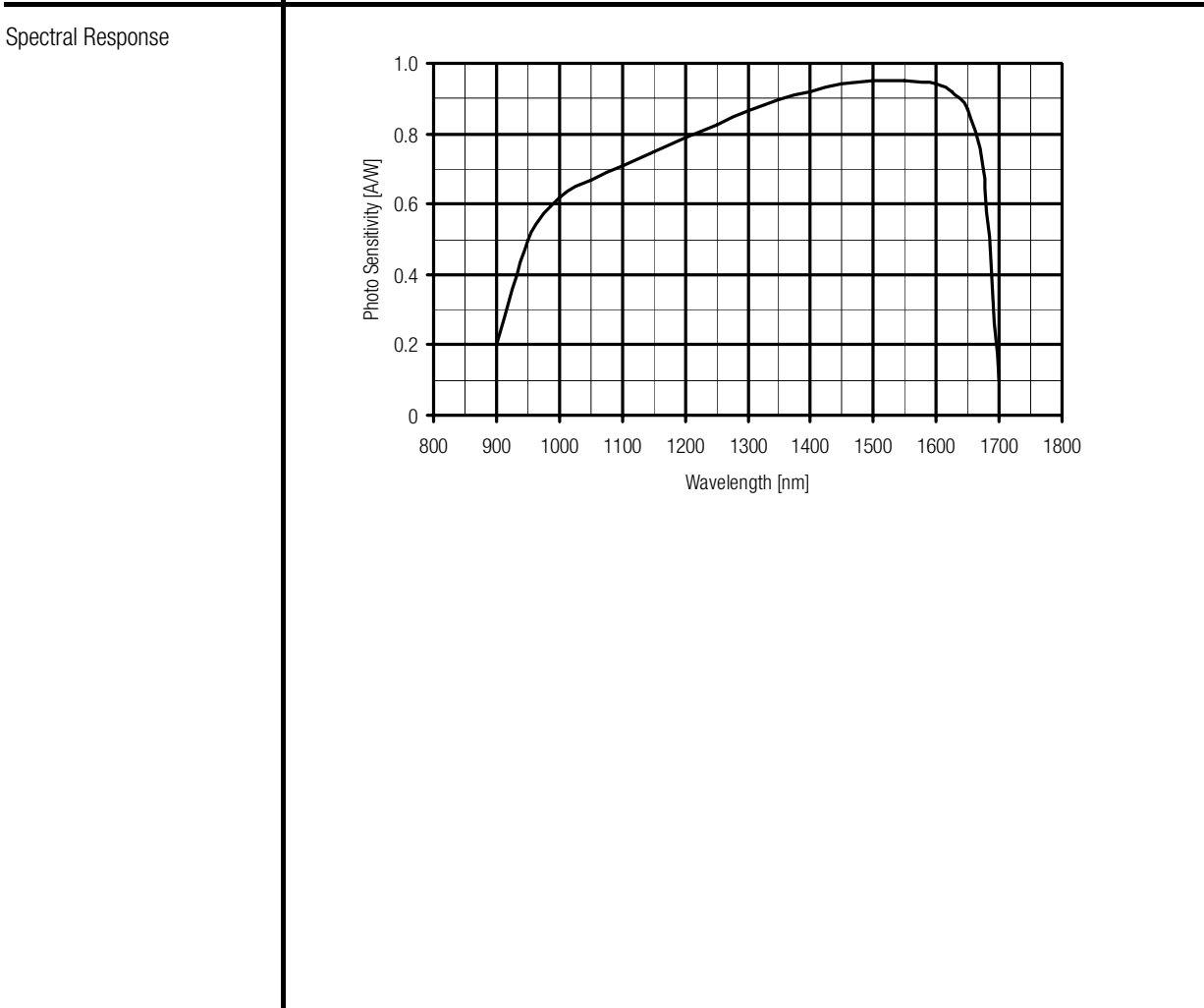
The photoreceiver will be delivered without post holder and post

Features	<ul style="list-style-type: none"> • InGaAs PIN Detector, 0.5 mm Active Diameter • Spectral Range 900 ... 1700 nm • Amplifier Transimpedance (Gain) 1.0×10^7 V/A • Max. Conversion Gain 9.5×10^6 V/W @ 1550 nm • Bandwidth DC ... 400 kHz 																																														
Applications	<ul style="list-style-type: none"> • Spectroscopy • General Purpose Opto-Electronic Measurements • Optical Front-End for Oscilloscopes, A/D Converters and Lock-In Amplifiers 																																														
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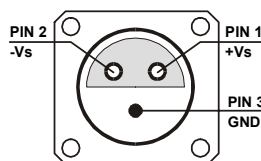
Specifications (continued)	
Output	Output Voltage Range $\pm 10\text{ V}$ (@ $\geq 1\text{ M}\Omega$ load) Max. Output Current $\pm 30\text{ mA}$ Output Impedance $50\ \Omega$ (designed for $\geq 1\text{ M}\Omega$ load) Output Noise ca. 12 mV peak-peak or 2 mV rms (@ $\geq 1\text{ M}\Omega$ load, no signal on detector)
Power Supply	Supply Voltage $\pm 15\text{ V}$ Supply Current $\pm 40\text{ mA typ.}$ (depends on operating conditions, recommended power supply capability minimum $\pm 150\text{ mA}$)
Case	Weight 210 g (0.5 lbs) Material AlMg4.5Mn, nickel-plated
Temperature Range	Storage Temperature - 40 ... + 100 °C Operating Temperature 0 ... + 60 °C

Absolute Maximum Ratings	Optical Input Power 10 mW Power Supply Voltage $\pm 22\text{ V}$
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Low Noise 400 kHz Photoreceiver with InGaAs PIN Photodiode

Connectors	Input	25 mm round flange for free space applications (fiber optic input available as customized unit)
	Output	BNC
	Power Supply	LEMO series 1S, 3-pin fixed socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND



Available Models	LCA-S-400K-IN-FS LCA-S	free space input customized version available on request
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Dimensions		
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