



The D101 is an amplified Si photoreceiver with a 10 position switchable gain and an additional low pass filter for the detection of light in the spectral range 300–1000nm. The D101 can drive both high impedance and 50Ω loads. Three mounting holes allowing pure rotation of the diode, eliminating unwanted translation during mounting.

The D101 has 8-32 tapped mounting holes and a 110-120 VAC power supply. The European version has M4 mounting holes and a 220-240 VAC power supply.

At high gain the D101 provides lower bandwidth due to the finite gain bandwidth product of its operational amplifiers.

Features	Low noise switchable photoreceiver with Si-PIN -diode	
Applications	General Opto-Electronic Measurements, Spectroscopy, OEM applications	
Specifications	Parameter	Value
Detector	Material	Si-PIN
	Diameter	0.3 mm
	Spectral Response	300-1000 nm
	Conversion	0.5 A/W
Gain	10 position rotary switch	2x10 ⁷ , 6x10 ⁶ , 2x10 ⁶ , 6.2x10 ⁵ , 2.1x10 ⁵ , 6.2x10 ⁴ , 2.1x10 ⁴ , 6.6x10 ³ , 2.1x10 ³ , 6.6x10 ² V/A
Frequency response		90 kHz, 270 kHz, 500 kHz, 1.5 MHz, 4.5 MHz, 8 MHz, 8 MHz, 10 MHz, 10 MHz, 10 MHz
Low pass filter	10 position rotary switch	10 MHz, 3 MHz, 1 MHz, 300 kHz, 100 kHz, 30 kHz, 10 kHz, 3 kHz, 1 kHz, 300 Hz
On / Off switch	Toggle switch	
Input	NEP	Down to 1.0 pW/√Hz at the highest gains
	Max. Input Power	20 mW CW
Output	Impedance	50 Ω
	Noise (RMS)	Less than 2 mV, less than 4 mV at the highest gains
	Offset	Less than 20 mV, less than 120 mV at the two highest gain settings
	Voltage	0-10 V, 0-5 V at 50 Ω load
	Connector	SMB
Dimensions	W x H x D	50.8 x 25.4 x 69.0 mm
Weight		100 g
Power supply	AC-DC converter	100-120 VAC / USA, 220-240 VAC / EC or ± 15 V @ 200mA. AC adapter provided with photoreceiver
Storage Temp		-20 to 80 °C
Operating Temp		0 to 60 °C