

## SI Variable Gain Photoreceiver, 850nm



#90-625 SI Variable Gain Photoreceiver, 850nm

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⊖ 1 ⊕ €3.545<sup>00</sup>

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### Product Downloads

#### General

0.7 - 300 **Rise Time (µs):**

Yes **Remote Control:**

**Note:**  
Includes:  
LEMO® 3-pin connector  
Datasheet

#### Physical & Mechanical Properties

320 **Weight (g):**

Case Size: 170 x60 x45 **Dimensions (mm):**

## Optical Properties

320 - 1060 nm **Spectral Range:**

## Sensor

Si-PIN **Detector Type:**

## Electrical

**Noise Equivalent Power NEP (W/ Hz<sup>1/2</sup>):**  
8 x 10<sup>-15</sup>- 3.3 x 10<sup>-11</sup>

500 KHz max **Bandwidth (-3 db):**

**Conversion Gain (V/W):**  
Low Noise: 1 x 10<sup>4</sup>-1 x 10<sup>10</sup>(adjustable in decade steps)  
High Speed: 1 x 10<sup>6</sup>-1 x 10<sup>12</sup> (adjustable in decade steps)

## Hardware & Interface Connectivity

**Power Requirement:**  
±15 V, +150 mA-100 mA, ±200 mA

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#59-180](#)  
Europe: [#59-180](#)  
Japan: Not Available  
Korea: Not Available  
China: [#59-180](#)

## Environmental & Durability Factors

0 to +60 **Operating Temperature (°C):**

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

## Product Details

- Ultra-Wide Adjustable Transimpedance Gain from 10<sup>2</sup> to 10<sup>11</sup> V/W
- Exceptional Low-Noise, High-Sensitivity Single-Beam Detection
- Optimized for Absolute Optical Power Measurements
- Designed for Direct, Alignment-Free Integration

Variable Gain Photoreceivers feature an ultra-wide adjustable transimpedance gain from 10<sup>2</sup> to 10<sup>11</sup>V/W, enabling precise measurement of optical signals across a broad power range. Engineered for ultra-low noise performance, these photoreceivers achieve noise equivalent power (NEP) as low as 6fW/√Hz, ensuring accurate detection of extremely weak optical signals. Designed for single-beam detection, they provide maximum sensitivity and dynamic range, allowing for simple, alignment-free integration into optical systems. Variable Gain Photoreceivers are ideal for applications such as photonics research, optical communication testing, and precision low-light measurements.

**Note:** Power supply sold separately. Please see specifications for more details.