

IL-1000 KEYENCE 30VDC 2300mW Laser Sensor Amplifier Datasheet



Brand: Keyence

SKU: 785614728262

Category: Relays & Contactors

Price: \$193.81

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/il-1000-keyence-30vdc-2300mw-laser-sensor-amplifier>

Product Description

The KEYENCE IL-1000 10 to 30 VDC DIN-rail mount amplifier unit operates with a maximum power consumption of 2300 mW and delivers an analog current output of 4 to 20 mA. Constructed with a durable polycarbonate case and PVC cable, this unit features an open collector output with NPN and PNP changeover capabilities, alongside a display rate of approximately 10 times/sec. The hardware integrates a 100 Ω output impedance for voltage signals and supports a maximum load resistance of 350 Ω for current outputs, ensuring precise signal amplification across a -10 to 50 $^{\circ}\text{C}$ ambient temperature range.

IL-1000 Specifications

Model Number: IL-1000

Brand: KEYENCE

Product Category: Amplifier Unit (DIN-rail mount)

Main Unit / Expansion Unit: Main unit

Head Compatibility: Compatible with IL series sensor heads

Power Voltage: 10 to 30 VDC (ripple P-P 10 % included, Class 2)

Power Consumption: 2300 mW or less (at 30 V : 77 mA or less)

Analog Voltage Output: ± 5 V, 1 to 5 V, 0 to 5 V

Voltage Output Impedance: 100 Ω

Analog Current Output: 4 to 20 mA

Current Maximum Load Resistance: 350 Ω

Control Output: Open collector output (NPN, PNP changeover possible / N.O., N.C. changeover possible)

Display Rate: Approx. 10 times/sec

Ambient Temperature: -10 to 50 °C (No condensation or freezing)

Relative Humidity: 35 to 85 % RH (No condensation)

Vibration Resistance: 10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in X, Y, and Z directions

Pollution Degree: 2

Case Material: Polycarbonate

Key Tops Material: Polyacetal

Cable Material: PVC

Weight: Approx. 150 g (including attachments)

IL-1000 Applications

Primary applications include integration into automated packaging machinery, CNC dimensional inspection systems, and robotic assembly lines requiring high-speed displacement measurement. Deployed within industrial control panels and DIN-rail enclosures, this amplifier processes analog signals for semiconductor wafer positioning equipment and automotive part thickness verification systems.

Supplemental Images

