

Loadcell Amplifier - $\pm 10V$

Features & Specification

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Key Features

- Suitable for all bridge sensor
- Precision excitation supply for the sensor
- Compact design suitable for both DIN Rail and
- Calibration with zero and span
- Lesser than 0.5% noise output for Full scale 0~20mA
- 1 Year Warranty against any manufacturing defects

Ordering Information

Product Code	Description
AC-LD-B10	Loadcell Amplifier - ±10V
AC-LD-10	Loadcell Amplifier - 0-10V
AC-LD-20mA	Load Cell Amplifier Module 0–20mA / 4–20mA DIN Rail Signal Transmitter
MIO-1LD	Loadcell to Modbus Transmitter
SPD-24V-DC	Surge Protection Device 24V DC SPD

Applications

- **Industrial Automation & Process Control:** Reliable signal interfacing and device connectivity across automated production lines.
- **SCADA & PLC Integration:** Seamless communication between field instrumentation and control systems.
- **Control Panel Building:** Compact 35 mm DIN rail mounting for clean and space-efficient cabinet wiring.
- **OEM Equipment & Diagnostics:** Robust electrical protection and standard industrial ratings.

Specifications

Parameter	Value
Mounting Type	35 mm DIN Rail Mounting
Dimensions	60mm x 40mm x 20mm
Enclosure Material	Industrial ABS plastic
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Relative Humidity	5% to 95% RH (non-condensing)

Electrical Specifications

Parameter	Specification
Power Supply	24V DC (15 ~ 28V DC)
Conversion Accuracy	< ±0.5% of Full Scale @ 25 °C
Temperature Drift	< 100 ppm / °C
Galvanic Isolation	Not Isolated

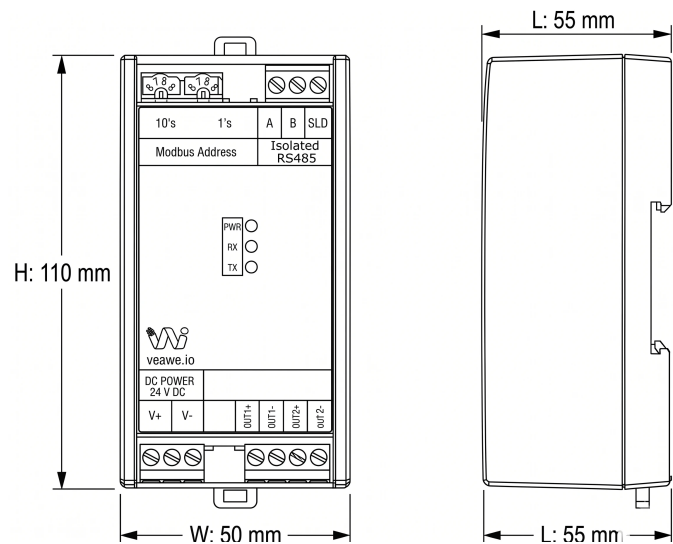
Input/Output Specifications

Parameter	Value
Input Signal Range	Standard industrial analog signal
Output Signal Range	4–20 mA (Load <= 500 Ω) or 0–10 V DC (Load >= 2 kΩ)
Response Time	< 10 ms

Isolation & Protection Specifications

Parameter	Value	Standard / Notes
Galvanic Isolation	1,000 V RMS	Optical and magnetic isolation barrier
Reverse Polarity Protection	Integrated	Protects internal circuitry against reverse DC wiring
Transient Clamping	600W TVS	Surge and spike suppression across all ports

Mechanical Dimensions



Terminal Details & Wiring

Pluggable industrial screw terminal block connections for input signal, isolated output signal, and 24V DC power.

Revision History

Revision	Date	Description of Change
Rev 1.0	2026-09-09	Initial datasheet release for AC-LD-B10

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