# LC1111/LC1111(DC)

PLUG-IN TYPE LOAD CELL CONVERTER



- Compact type: 38Wx93.5Hx50Dmm
- lacksquare Built-in excitation voltage. Up to 4 350 $\Omega$  load cells can be connected in parallel.
- Current output of 4 to 20mA
- Simple design for a wide variety of applications and instrumentations.

## Structure of product code

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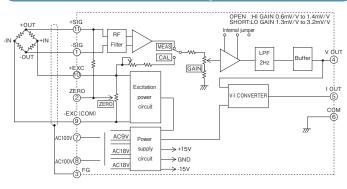
# ①Standard unit

Model	Power supply voltage
LC1111	AC100V
LC1111 (DC)	DC12 to 24V

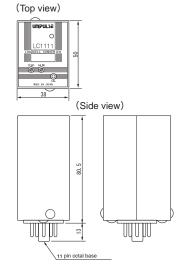
### Specifications

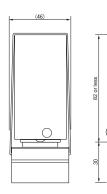
EXCITATION VOLTAGE  ZERO  ADJUSTMENT RANGE  GAIN ADJUSTMENT RANGE  Range selectable by external resistance connection if the above range is exceeded.  GAIN ADJUSTMENT RANGE  Range selectable with the internal jumper.  ACCURACY  Non-linearity within 0.029%/FS Zero drift within 1μV/°C RTI Gain drift within 1μV/P-p RTI (2Hz)  OUTPUT  Voltage output: 0 to ±10V Load resistance: 2kΩ or more SIGNAL  Current output: 4 to 20mA Load resistance: 500Ω or less  LOW-PASS FILTER  CALIBRATION VALUE  TIMV/V  POWER SUPPLY  VOLTAGE  DC12 to 24V (±15%) (LC1111 (DC)) at time of order.  POWER CONSUMIPTION  AC spec: 2VA typ. DC spec: 2W typ.  OPERATION  CONDITION  Working temperature range: -10 to +40°C Humidity85% RH or less (non-condensing)  DIMENSIONS  38 (W) ×93.5 (H) ×50 (D) mm  WEIGHT  Approx.300g  ATTACHMENTS  Special-purpose socket1  Fixing spring1  Adjusting screwdriver		
ZERO ±0.4mV/V (at bridge resistance 350Ω)  ADJUSTMENT RANGE Expandable by external resistance connection if the above range is exceeded.  GAIN 0.6mV/V to 1.4mV/V (HI range)  ADJUSTMENT 1.3mV/V to 3.2mV/V (LO range)  RANGE Range selectable with the internal jumper.  ACCURACY Non-linearity within 0.02%/FS  Zero drift within 1µV/°C RTI  Gain drift within 1µV/Pp RTI (2Hz)  OUTPUT Voltage output:0 to ±10V Load resistance:2kΩ or more SIGNAL Current output:4 to 20mA Load resistance:500Ω or less  LOW-PASS FILTER Low-pass filter (-6dB/oct.) 2Hz/-3dB  CALIBRATION VALUE 1mV/V  POWER SUPPLY AC100V (±10%) 50/60Hz It specifies  VOLTAGE DC12 to 24V (±15%) (LC1111 (DC)) at time of order.  POWER CONSUMPTION AC spec: 2VA typ. DC spec: 2W typ.  OPERATION Working temperature range:-10 to +40°C  Humidity85% RH or less (non-condensing)  DIMENSIONS 38 (W) ×93.5 (H) ×50 (D) mm  WEIGHT Approx.300g  ATTACHMENTS Special-purpose socket1  Fixing spring	EXCITATION	DC5V±5% Output current: within 60mA
ADJUSTMENT RANGE  20 turn trimmer potentiometer Expandable by external resistance connection if the above range is exceeded.  GAIN ADJUSTMENT RANGE  1.3mV/V to 1.4mV/V (HI range) 1.3mV/V to 3.2mV/V (LO range) Range selectable with the internal jumper.  ACCURACY  Non-linearity within 0.02%/FS Zero drift within 1µV/°C RTI Gain drift within 1µV/P-p RTI (2Hz)  OUTPUT Voltage output:0 to ±10V Load resistance:2kΩ or more signal Current output:4 to 20mA Load resistance:500Ω or less LOW-PASS FILTER  CALIBRATION VALUE  TmV/V  POWER SUPPLY VOLTAGE DC12 to 24V (±15%) (LC1111 (DC)) at time of order.  POWER CONSUMPTION AC spec: 2VA typ. DC spec: 2W typ.  OPERATION CONDITION  Working temperature range:-10 to +40°C Humidity85% RH or less (non-condensing)  DIMENSIONS 38 (W) ×93.5 (H) ×50 (D) mm  WEIGHT  Approx.300g  ATTACHMENTS  Special-purpose socket1  Fixing spring	VOLTAGE	(Up to 4 350 $\Omega$ load cells can be connected in parallel.)
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Adjusting screwdriver1	ATTACHMENTS	Special-purpose socket1
		Fixing spring1
Operation manual1		
		Operation manual 1

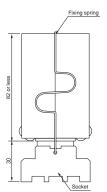
### Internal block diagram

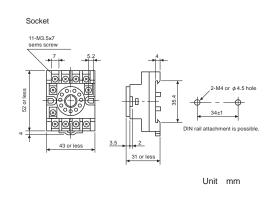


### **External dimension**









State in which the fixing spring is mounted