General Specifications

MLC
Load Cell Transmitter

JUXTA

This plug-in type load cell transmitter supplies bridge voltage to load cell (distortion gage) etc. It receives mV signal from load cell and converts it into DC voltage or current signals.

- Variable bridge voltage
- Can select remote sensing function
- Can select 3 kinds of driving power supply
- 2000V AC high voltage proof

MLC-□□-□/□

Model

Input Signal
1 : 1mV/V
2 : 1.5mV/V
3 : 2mV/V
4 : 3mV/V
5 : 5mV/V
6 : 10mV/V
7 : 20mV/V
0 : (Custom Order)
Load Cell Signal

Output Signal

A : 4～20mA DC	1 : 0～10mV DC
B : 2～10mA DC	2 : 0～100mVDC
C : 1～5mA DC	3 : 0～1V DC
D : 0～20mA DC	4 : 0～10V DC
E : 0～16mA DC	5 : 0～5V DC
F : 0～10mA DC	6 : 1～5V DC
G : 0～1mA DC	7 : -10～+10V DC
Z : (Custom)	0 : (Custom)
Current Signal	Voltage Signal
Refer Table 1	Refer Table 1

Power Supply
3 : 24V DC ±10%
4 : 85～132V AC/85～150V DC
5 : 170～264V AC

Option
R : Remote Sensing Function

ORDERING INFORMATION
- **Model Code** : (Example) MLC-66-4/R

Input & Output
Input Point : 1
Input Signal : mV signal from Load Cell
Load Cell to combine :
Rating output 1mV/V, 1.5mV/V, 2mV/V, 3mV/V, 5mV/V, 10mV/V, 20mV/V,

Voltage Applied : 2～10V DC
Standard adjustment 5V
2～6V in case with remote sensing function

Span : 3mV or more

Bridge Resistance : 120～350Ω

Permissible Current : 65mA max.

Permissible Voltage Applied : ±15V DC

Zero Elevation : 0%

Output Signal : DC current or DC voltage signal

Permissible Load Resistance :

Output Range		Output Range	
4～20mA DC :	below 750Ω	0～10mV DC :	over 250KΩ
2～10mA DC :	" 1500Ω	0～100mV DC:	" 250KΩ
1～ 5mA DC :	" 3000Ω	0～ 1V DC :	" 2KΩ
0～20mA DC :	" 750Ω	0～ 10V DC :	" 10KΩ
0～16mA DC :	" 900Ω	0～ 5V DC :	" 2KΩ
0～10mA DC :	" 1500Ω	1～ 5V DC :	" 2KΩ
0～ 1mA DC :	" 15kΩ	-10～+10V DC:	" 10KΩ

Zero·Span Adjust Function :
±5% of span (zero adjust)
±5% of span (span adjust)

Standard Performance

Accuracy Rating : ±0.1% of span

Response Speed : 150ms 63% response (10～90%)

Insulation Resistance :
Over 100MΩ (500V DC) between(input·applied voltage·remote sensing)～output～power supply～ground

Withstand Voltage :
2000V AC/minute between (input·applied voltage·remote sensing)～output～power supply～ground

Temperature Range : 0～50℃

Humidity Range : 5～90% RH (no condensation)

Power Voltage : 24V DC±10%, 85～150V DC
85～132V AC, 170～264V AC (47～63Hz)

Effect of Power Voltage Fluctuation :
Less than ±0.1% of span for fluctuation of 24V DC±10%, 85～132V AC, 85～150V DC, 170～264V AC

Effect of Ambient Temperature Change :
Less than ±0.2% of span for change of 10℃

Power Dissipation : 24V DC 150mA

Current Dissipation : 100V AC 6.5VA, 200V AC 8.5VA

Mounting, Shape & Accessories

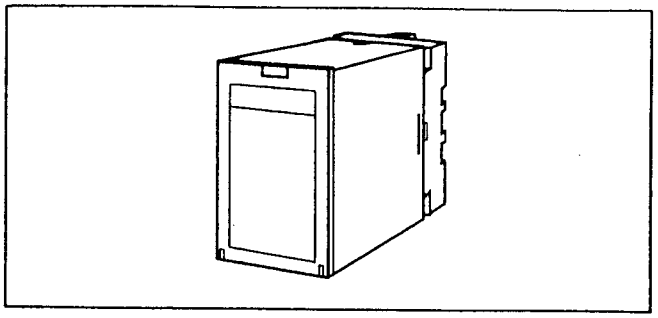
Materials	Case ABS plastic
Mounting Method	Wall and DIN rail mountings (More than 5mm interval is required for close mounting)
Connecting Method	M3.5 screw terminal
External Dimension	85x50x123mm(HxWxD) (including socket)
Weight	Body : Abt. 250g Socket : Abt. 60g

Accessories :
Tag number label 2
Spacer ..... 1 (use for DIN rail mounting)

CUSTOM ORDER SPECS.

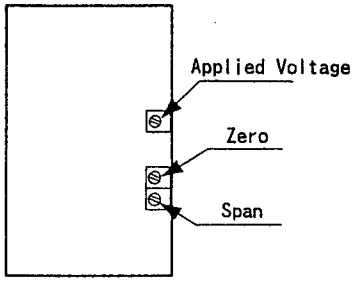
Table 1 Manufacturable Range

	Current Signal	Voltage Signal
Output Range	0~24mA DC	-10~+10V DC
Span	1~24mA DC	10mV~20V DC
Zero Elevation	0~200%	-100~+200%

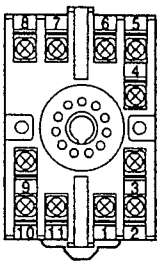


ADJUSTMENT THRU FRONT TRIMMER

Adjustments of applied voltage and zero/span can be done through Trimmer.



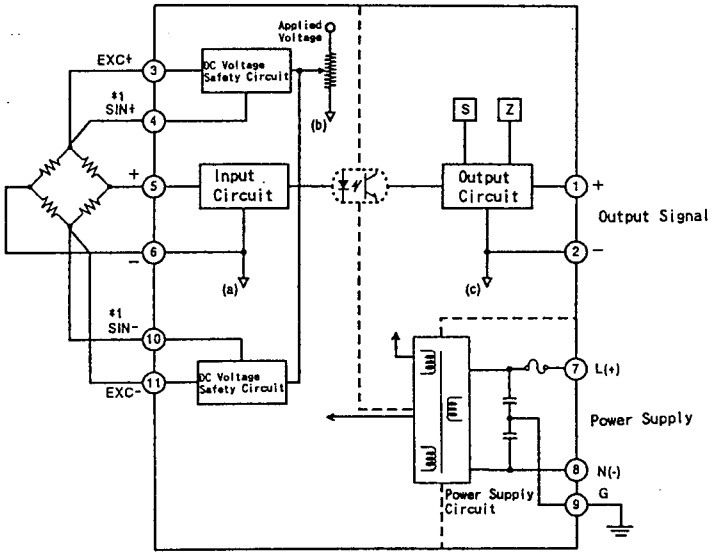
TERMINAL ARRANGEMENT



1	OUTPUT 1	(+)
2	OUTPUT 1	(−)
3	EXC	(+)
4	SIN *	(+)
5	INPUT	(+)
6	INPUT	(−)
7	SUPPLY	(L+)
8	SUPPLY	(N−)
9	GND	
10	SIN *	(−)
11	EXC	(−)

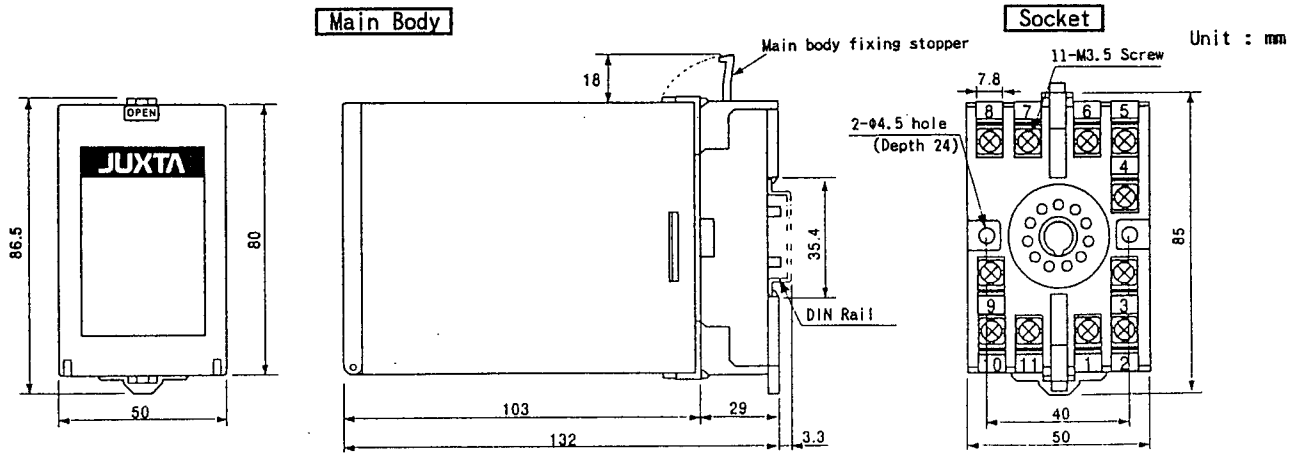
* Do not wire to terminals 4(SIN+), 10(SIN-) when remote sensing function is not used.

BLOCK DIAGRAM



*1 In case remote sensing function is used

EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance