

■ Standard Performance

Accuracy rating: $\pm 0.1\%$ of span; see the following exceptions:

- $\pm 0.1\%$ of span or $\pm 1^\circ\text{C}$, whichever is greater when Type K, T and E $< -200^\circ\text{C}$, $400^\circ\text{C} \leq \text{Type B} < 600^\circ\text{C}$, Type E and J $> 750^\circ\text{C}$, or Type N $> 1200^\circ\text{C}$.
- $\pm 0.1\%$ of span or $\pm 2^\circ\text{C}$, whichever is greater when Type N $< -200^\circ\text{C}$.
- Accuracy is not guaranteed when Type B is below -400°C , or for output levels less than 0.1mA for the output codes D, E, and F, and for output levels less than 0.0125mA for the output code G.
- The accuracy derived from the following expression is applied when the measuring span is below 10 mV in thermoelectromotive force.
 $10/\text{measuring span (mV)} \times \text{accuracy}^*$
 * Any of $\pm 0.1\%$, $\pm 1^\circ\text{C}$ or $\pm 2^\circ\text{C}$.

- For the measured temperatures less than -200°C of Type K, E, T, and N, the accuracy is as follows; Add the following coefficient (T_e) to the accuracy mentioned above.

$$T_e [^\circ\text{C}] = (-200 [^\circ\text{C}] - \text{measured temp. } [^\circ\text{C}]) / X$$

($X=10$ for Type K, T, and E; $X=5$ for Type N)

Accuracy of reference junction compensation:

$\pm 1^\circ\text{C}$ (0 to 50°C) for Type K, T, E, J, B and N
 $\pm 2^\circ\text{C}$ (0 to 50°C) for Type R and S thermocouples
 For the measured temperatures less than 0°C , multiply the accuracy mentioned above by K, where $K = (\text{Thermocouple output change}/^\circ\text{C near } 0^\circ\text{C}) / (\text{Thermocouple output change}/^\circ\text{C at measured temperature})$

Response speed: 200 ms , 63% response (10 to 90%)

Burnout: Up, Down or Off; the maximum burnout time is specified as 60 seconds.

Insulation resistance: $100\text{ M}\Omega$ minimum at 500 V DC between input, output-1, output-2, power supply and grounding terminals mutually

Withstanding voltage: 2000 V AC for one minute between input, (output-1, output-2), power supply and grounding terminals mutually
 1000 V AC for one minute between output-1 and output-2

Operating temperature range: 0 to 50°C

Operating humidity range: 5 to 90% RH (no condensation)

Supply voltage range: $24\text{ V DC} \pm 10\%$
 100 to $130\text{ V AC/DC} (\pm 15\%)$
 200 - $240\text{ V AC} (-15\%, +10\%)$

Effects of power line regulation: Up to $\pm 0.1\%$ of span for the regulation within allowable range of each supply voltage range

Effects of ambient temperature variations: Up to $\pm 0.2\%$ of span per 10°C

Effects of leadwire resistance variations: Up to $\pm 15\text{ }\mu\text{V}$ per $100\text{ }\Omega/\text{wire}$

Power consumption:

2.6 W at 24 V DC ; 2.5 W at 110 V DC ;
 5.0 VA at 100 V AC ; 7.0 VA at 200 V AC

■ Mounting and Appearance

Material: Case body; ABS resin (black), UL94 V-0
 Socket; Modified polyphenylene oxide, including glass fiber (black), UL94 V-1

Mounting method: Wall or DIN rail mounting
 More than 5 mm interval is required for side-by-side close mounting.

Connection method: M3.5 screw terminals

External dimensions: $86.5\text{ (H)} \times 51\text{ (W)} \times 133\text{ (D)}\text{ mm}$ (including a socket)

Weight: Approx. 200 g (main unit), approx. 80 g (socket)

■ Accessories

Spacer: One (used for DIN rail mounting)

Range labels: Two

RJC sensor: One

(Note) Be sure to use the supplied RJC sensor.

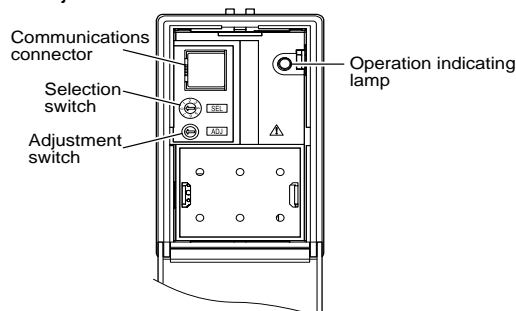
■ Customized Signal Specifications

	Current Signal	Voltage Signal
Output range (DC)	0 to 20 mA	-10 to +10 V
Span (DC)	1 to 20 mA	10mV to 20 V
Zero elevation	0 to 150 %	-125 to +400 % *

* -50 to +25% for the span of 20 mV DC or less.

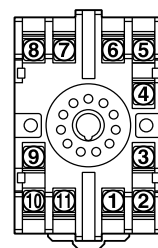
■ Front Panel

Output adjustment, wiring resistance correction, and On/Off of RJC are available using selection switch and adjustment switch.



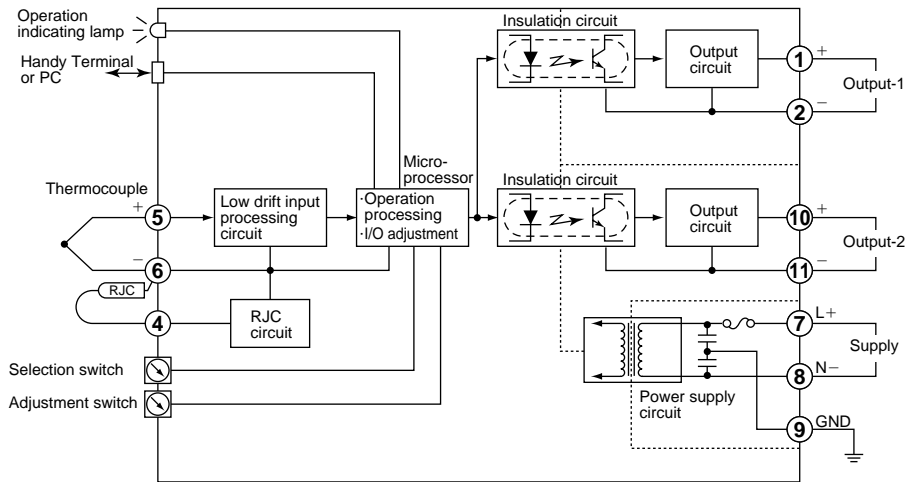
The position of a selection switch	Adjustment item
0	No function
1	Output-1 zero adjustment
2	Output-1 span adjustment
3	Output-2 zero adjustment
4	Output-2 span adjustment
5	Wiring resistance correction
7	ON/OFF of RJC

■ Terminal Assignments

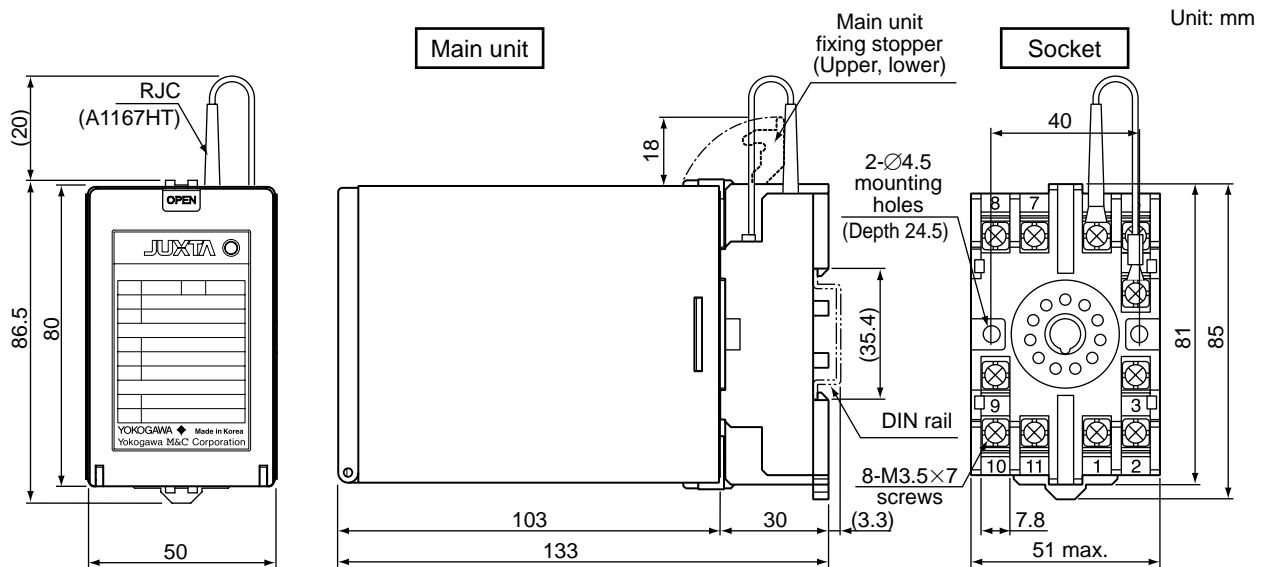


1	OUTPUT-1	(+)
2	OUTPUT-1	(-)
3	N.C.	
4	INPUT	RJC reverse side
5	INPUT	(+)
6	INPUT	(-)
7	SUPPLY	(L+)
8	SUPPLY	(N-)
9	GND	
10	OUTPUT-2	(+)
11	OUTPUT-2	(-)

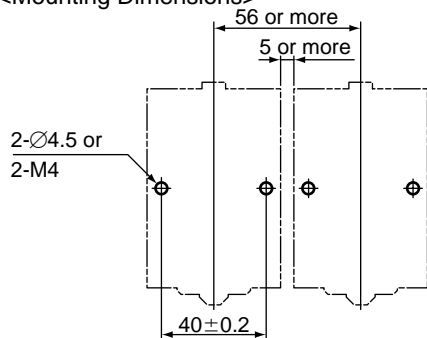
■ Block Diagrams



■ External Dimensions



<Mounting Dimensions>



Unit: mm

- (1) More than 5 mm interval is required for side-by-side close mounting.
- (2) Use the supplied spacer for DIN rail mounting to keep 5 mm interval.

• The information covered in this document is subject to change without notice for reasons of improvements in quality and/or performance.