KR8_
Power Supply Unit

Overview

KR8□ Power supply unit series can be used as DC power source for various pressure, differential pressure and temperature transmitter.

KR80

Features

KR80……Suitable for the connection with a number of transmitters. For example, when 2 wire transmitter with 4 to 20mA output is used, up to thirty transmitters can be connected. In addition, the stability of the output voltage is improved.

KR81……Lower-capacity and economical power unit. Especially, an economical system can be built for small-scale instrumentation. When 2 wire transmitter with 4 to 20mA output is used, up to five transmitters can be connected.

KR85……Lower-capacity, small and lightweight power unit. When 2 wire transmitter is used, up to three transmitters can be connected.

KR86……Lower-capacity, small and lightweight power unit for transducer connection.

* To maximize performance and extend the product life, it is recommended to use in two-thirds or lower of the output current for the load.

Specifications

Installation environment:
Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition

Mounting:
Surface mounting, floor mounting

Input:
100V AC±10%, 110V AC±10%, 200V AC±10%
220V AC±10%

Output:

KR80	24V DC±1%	1A
KR81	24V DC±5%	0.2A
KR85	24V DC±5%	0.15A
KR86	5V DC±4%	0.3A

Ripple:

KR80・81	20mV P-P
KR85	8mV P-P
KR86	5mV P-P

Withstand voltage:

KR80・81	1500V AC	1minute
KR85	1200V AC	1minute
KR86	1000V AC	1minute

Insulation resistance: (Between input and output)

KR80	500V DC	30MΩ or higher
KR81	500V DC	100MΩ or higher
KR85	500V DC	100MΩ or higher
KR86	500V DC	100MΩ or higher

Operating temperature range:

KR80・81	0 to 60℃ (Non-condensing)
KR85	-10 to 50℃ (Non-freezing or condensing)
KR86	0 to 50℃ (Non-condensing)

Storage temperature range:
-20 to 70℃ (Non-freezing or condensing)

Case finishing:

KR80	Black
KR81	Gray
KR85	Black
KR86	Black

Weight:

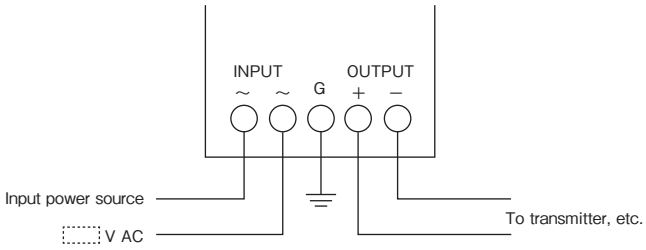
KR80	Approx. 2.3kg
KR81	Approx. 1kg
KR85	Approx. 0.4kg
KR86	Approx. 0.35kg

Wiring

Cables and cords:

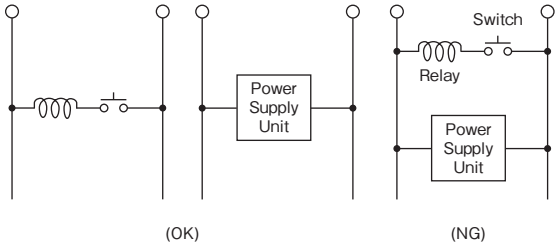
AC line side Equivalent or greater than JIS C 3322
Signal line side Equivalent to JIS C 3401. If there is a risk such as a noise, please use shielded wire for instrument.

Wiring:



Input line:

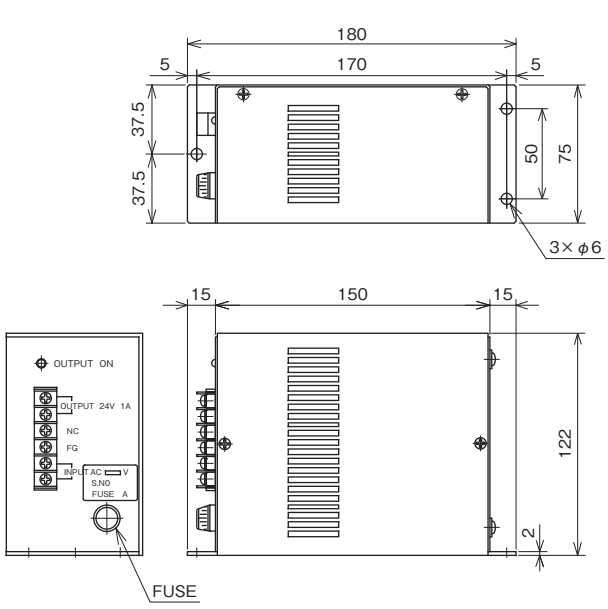
Please separate the AC input from the other line.



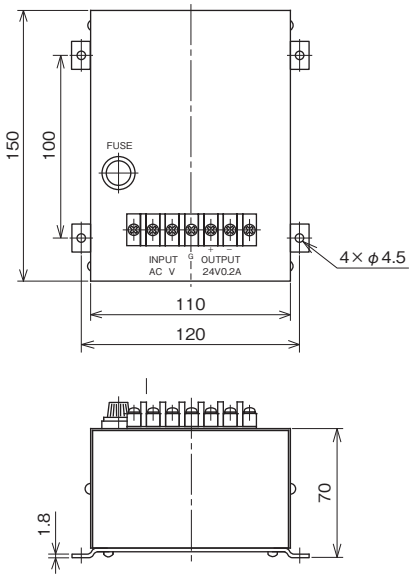
Dimensions

Unit: mm

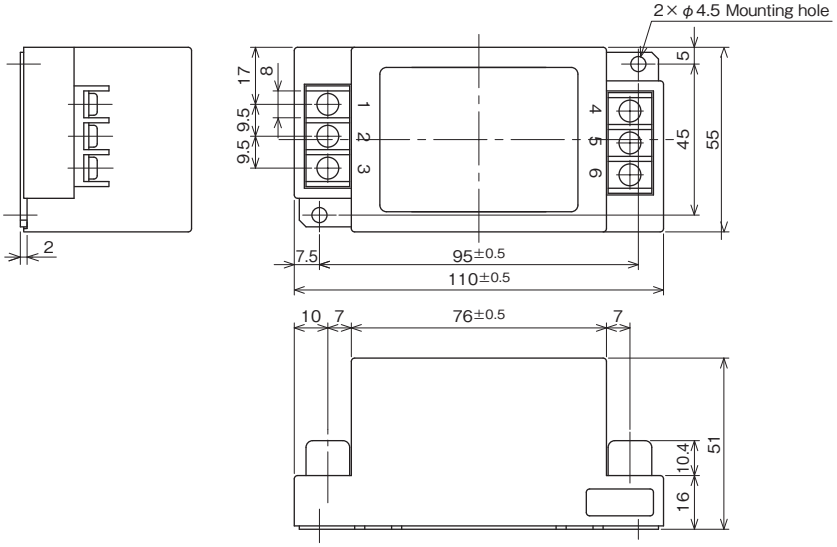
KR80



KR81



KR85・86



Power input: 1, 2 terminal
Output: 4 (+), 5 (-)

Model number configuration

Please specify the model number and each specification for ordering.

Model

K R 8		—			0	—	×	×	×	×	×	×	×	×	×	×	×	
Power Supply Unit			①	②	③		④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮

Model number		Product specifications	Additional specifications (Optional)

Model	0	24V DC±1% 1A (Output)	
	1	24V DC±5% 0.2A (Output)	
	5	24V DC±5% 0.15A (Output)	
	6	5V DC±4% 0.3A (Output)	

①②③ Input		KR80
	100	100V AC±10%
	110	110V AC±10%
	200	200V AC±10%
	220	220V AC±10%
		KR81
	100	100V AC±10%
	110	110V AC±10%
	200	200V AC±10%
	220	220V AC±10%
		KR85
	100	100V AC±10%
	110	110V AC±10%
	200	200V AC±10%
	220	220V AC±10%
		KR86
	100	100V AC±10%
	110	110V AC±10%
	200	200V AC±10%
	220	220V AC±10%

⑮ Documents	0	Not required
	1	Required (Documents available upon request) Datasheet (Drawing / Specifications) Instruction manual Inspection procedure Calibration test report (One-part one sheet) Attending inspection

＊Specify code "X" to refer N/A