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CUSB-22R User's Manual

Thank you for your purchase from Comfile Technology

Before making use of this produce please be sure to read and observe all safety precautions.

◆ Safety Precautions

Please be sure to observe all safety precautions to avoid accident or injury.

※ The following precautions are separated into "Warning" and "Caution", and are defined as follows.

Warning: Failure to adhere to this precaution could result in personal injury or death.

Caution: Failure to adhere to this precaution could result in minor injury or property damage.

※ Symbols used in this document have the following meanings

Danger and potential for serious injury.

Warning

1. For instruments with risk to life or property (e.g. nuclear power control, medical equipment, vehicles, railways, aviation, combustion equipment, recreation equipment, safety devices, etc.), always employ adequate fail-safe mechanisms.
   - Risk of fire, personal injury, and/or property damage.
2. Always mount to a panel.
   - Risk of electric shock.
3. Do not attempt to repair, inspect, or wire while power is applied.
   - Risk of electric shock.
4. Do not attempt to alter or repair. Refer to a qualified technician.
   - Risk of electric shock.
5. Confirm all electrical connections
   - Risk of fire

Caution

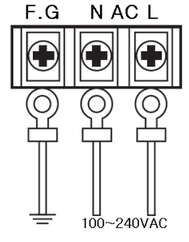
1. Do not use outdoors.
   - Risk of electric shock and shortening of product's life.
2. Always use the product within its specifications and ratings.
   - Risk of fire and shortening of product's life.
3. Do not exceed ratings of relay switching contacts.
   - Risk of device failure, melting of contacts, broken relays, fire, and other problems.
4. Do not use in environments flammable or explosive materials, moisture, direct sunlight, radiation, vibration and/or shock.
   - Risk of fire and/or electric shock.
5. Keep product free of dust and debris.
   - Risk of fire and/or damage to property
6. Make connections correctly and confirm polarity by measuring the appropriate terminals
   - Risk of fire and/or explosion

◆ Specifications

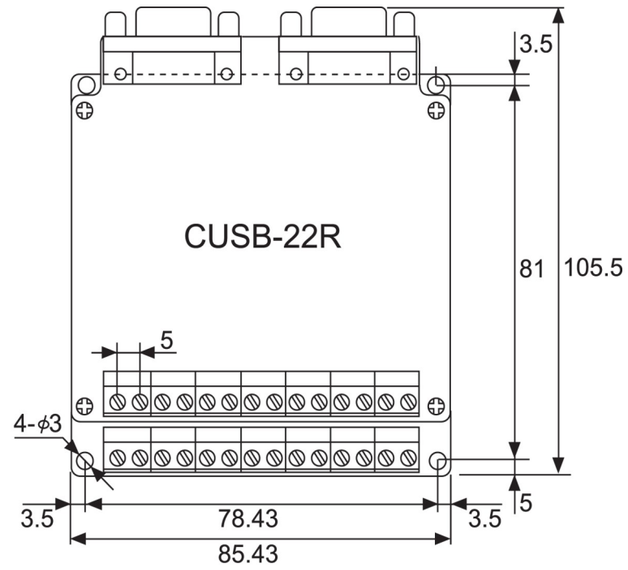
MODEL	CUSB-22R
Input Power Voltage	100~240VAC (Universal Input 85V~264VAC)
Input Power Current	100VAC/33mA, 200VAC/26mA
Internal Output Power	5V/500mA, 24V/200mA
Application CPU	CB280
Program Memory	80KB
Data Memory	BASIC : 2KB / LADDER : 1KB
EEPROM Memory	4KB
Digital Input Port	Opto-Isolated Input and Output (+/- Nonpolar)
D/I Voltage-Current	9V~26VDC / Min10mA
D/I Port Numbers	11Point
Analog Input Port	6Point CN15 (Input Voltage 5V)
High Count Port	2Point
Key Board Port	4Point (Application of Keypad)
D/O Port Numbers	10Point
D/O Voltage-Current	0~250VAC/5A , 0~30VDC / 5A
PWM Output	6Point
Insulation-Resistance	6CH
Withstanding-Voltage	Input-Output : DC500V, 1Min 100MΩ Cut Off Current 10mA
	Input-FG : DC500V, 100MΩ, 1Min Cut Off Current 10mA
	Input-Output : AC 2000V 1Min Cut Off Current 10mA DC500V 100MΩ
	Input-FG : AC 1500V 1Min Cut Off Current 10mA, DC500V 100MΩ
	Output-FG : AC 500V 1Min Cut Off Current 10mA, DC500V 100MΩ
Vibration	10~50Hz at 2G 3 minutes period, 30 minutes along X,Y and Z axis
Impact	10G for 20mS, Once on each X,Y and Z axis
Operating Temperature	-10℃~50℃
Humidity	10%~95% RH (Non-condensing)
Communication	RS232
Size & Weight	85.43 x 105.5 x 43.5 mm, 227g

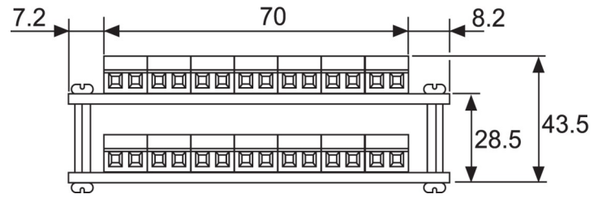
◆ Power Connections

1. Use at least 0.75mm diameter wires for power and at least 1.25mm diameter for ground.
2. If possible, use crimped flat-type terminal connectors.
3. Do not connect power while power is on.
4. Path to ground should be less than 100Ω and all equipment should be individually grounded.



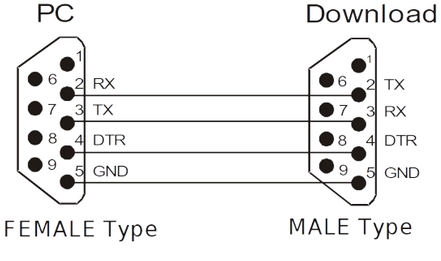
◆ Dimensions (mm)





◆ Download Cable Connection

Interface	RS-232
Baud Rate	2400 ~ 230400 (115200 when downloading)
Duplex	Full Duplex
Transmission Distance	15m
Transmission Code	Binary
Transmission Format	Top Bits: 1, Parity: None, Data Bits: 8
Transmission Sequence	According to RS232C
Connection	D-Sub 9-pin



[Download Wiring Diagram]

◆ I/O

▶[CN2]

Download Port	Pins	
5 4 3 2 1 9 8 7 6 D-Sub 9Pin	1	Not used
	2	TX
	3	RX
	4	DTR
	5	GND
	6	Not used
	7	Not used
	8	Not used
	9	VCC (5V)

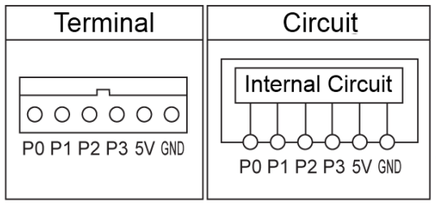
▶[CN1]

RS-232 Comm. Port	Pins	
5 4 3 2 1 9 8 7 6 D-Sub 9Pin	1	Not used
	2	TX1
	3	RX1
	4	Not used
	5	GND
	6	Not used
	7	Not used
	8	Not used
	9	VCC (5V)

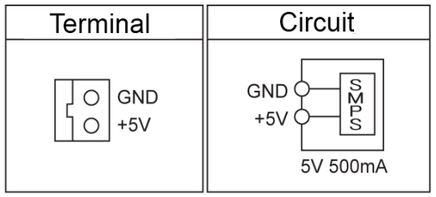
▶[SW2] AD Input Voltage

SW2	Input Voltage
ON OFF	5V
ON	10V

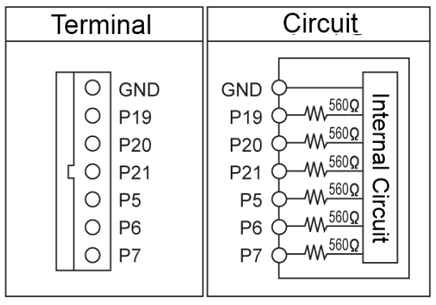
▶[CN16] KEYPAD

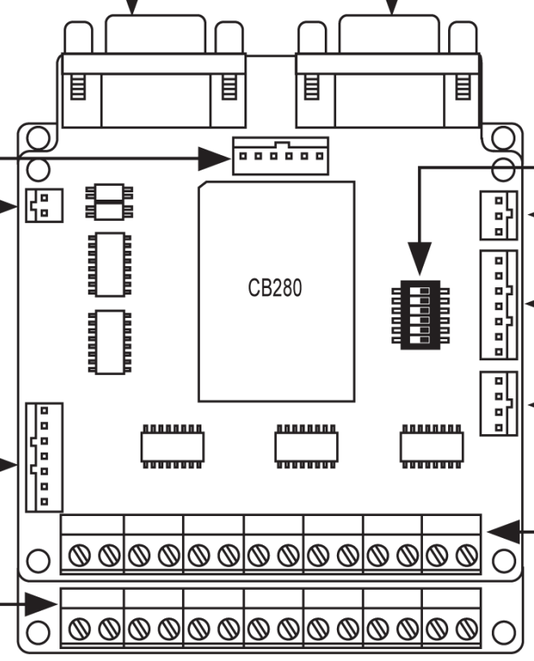


▶[CN9] 5V OUT

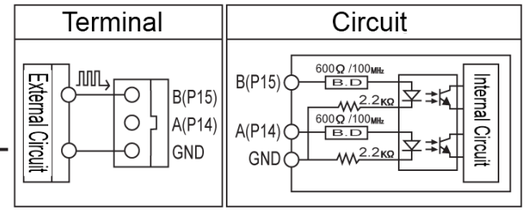


▶[CN4] PWM OUT

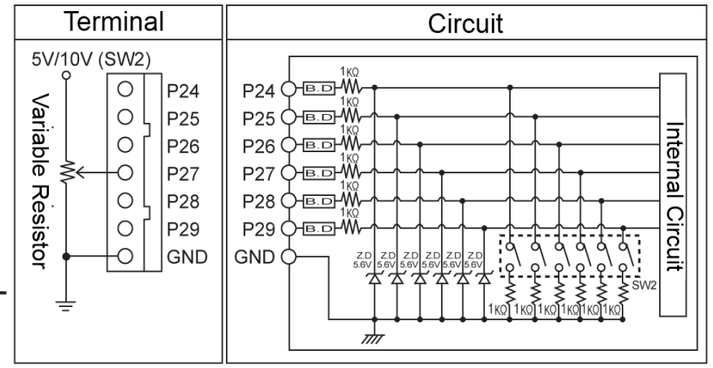




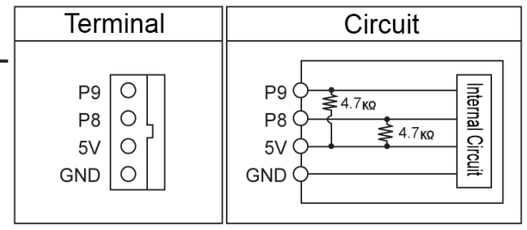
▶[CN19] High-Speed Counter



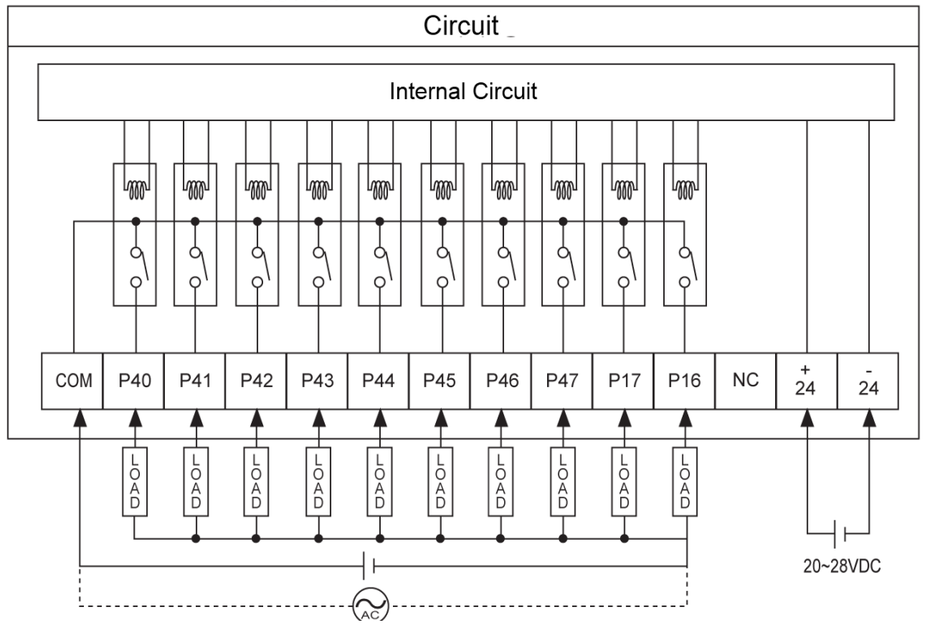
▶[CN15] AD INPUT



▶[CN12] CuNET



▶ OUTPUT



▶ INPUT