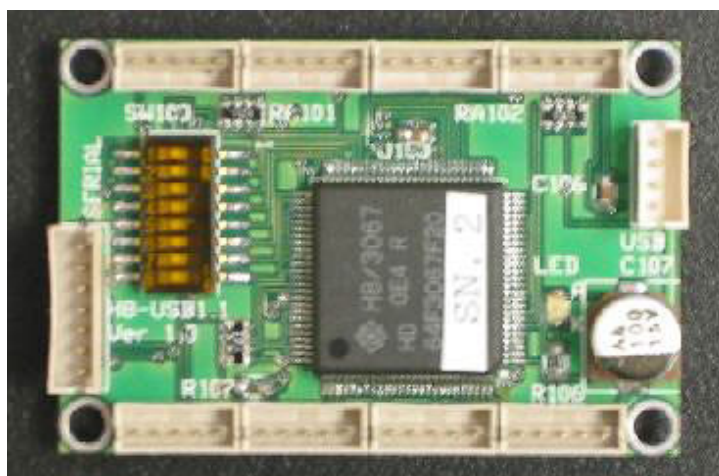


iMCs01 Hardware Manual

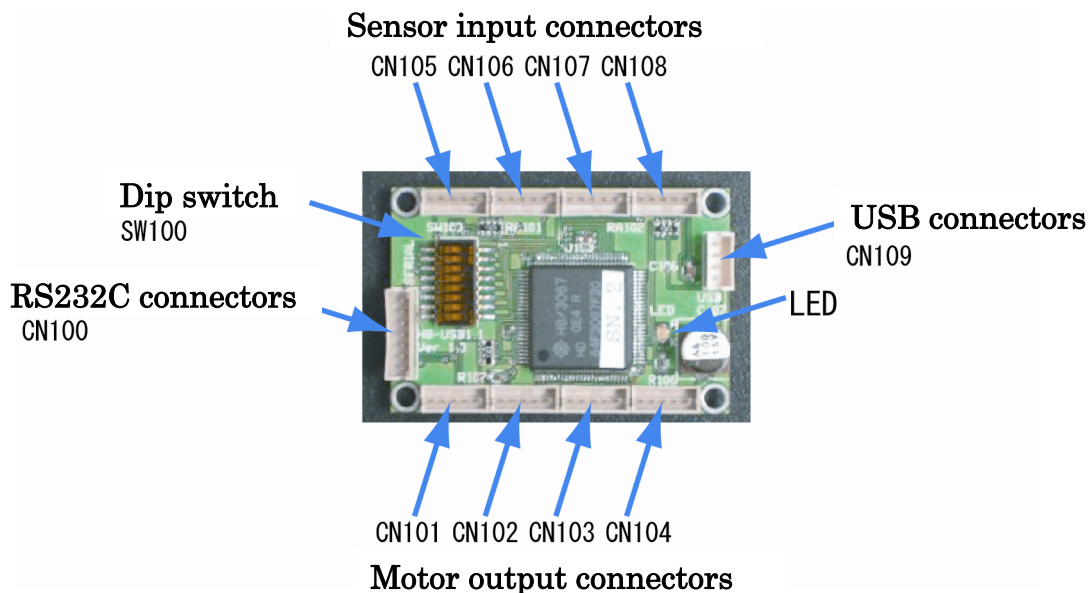
USB 4ch Motor Controller



Index

1. Introduction	3
2. Specification	3
3. Name of pins and switches.....	3
4. Pin function.....	4
5. Connection with instruments.....	5
5.1 Connection with PC	5
5.2 Connection with Motor Driver	5
5.3 Connection with Sensors	5
6. Dimentions.....	6
7. Warning.....	6

1. Introduction
2. Specification
3. Name of pins and switches



4. Pin function

• Output PIN

CN101, CN102, CN103, CN104

No		
1	GND	Power (GND)
2	PWM	PWM signal
3	BRK/DA	Break signal
4	CW/CCW	Motor direction signal
5	VCC	Power (+5V)

• Input PIN

CN105, CN106, CN107, CN108

No		
1	AVSS	Analog Power (+5V)
2	CNT_B	Encoder signal input A
3	AN	Analog input (10bit)
4	CNT_A	Encoder signal input B
5	AVCC	Analog Power (GND)

• USB PIN

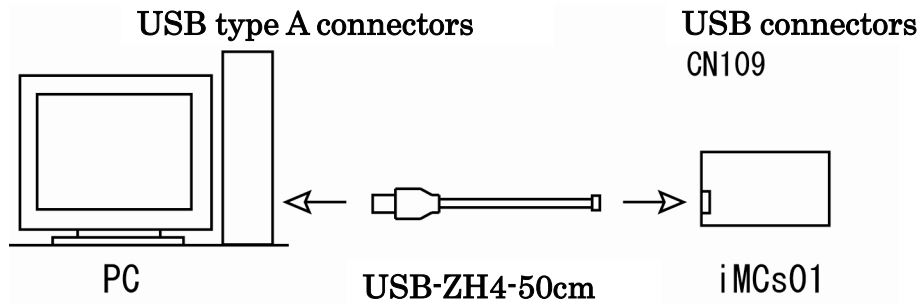
No		
1	VCC	Power (+5V)
2	D-	USB
3	D+	USB
4	GND	Power (GND)

• RS232C PIN

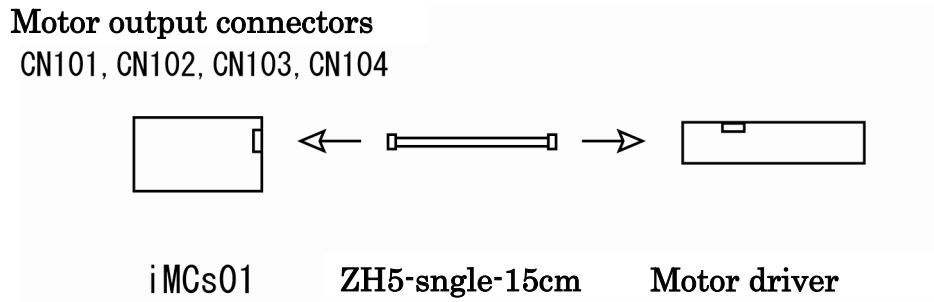
No		
1	VCC	Power (+5V)
2	RXD1	RXD1
3	TXD1	TXD1
4	FWE	Flash write enable (with Pull Down)
5	MD2	MD2
6	RST	Reset signal
7	GND	Power (GND)

5. Connection with instruments

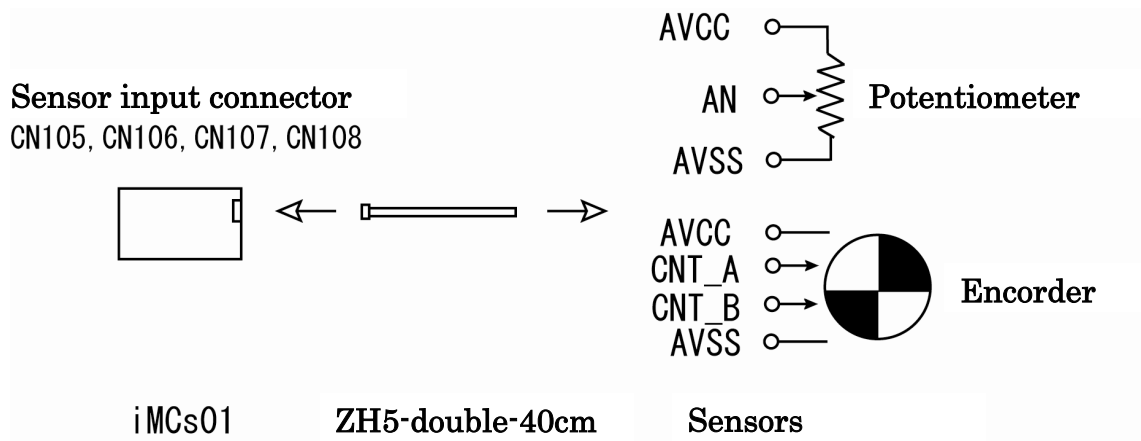
5.1 Connection with PC



5.2 Connection with Motor Driver

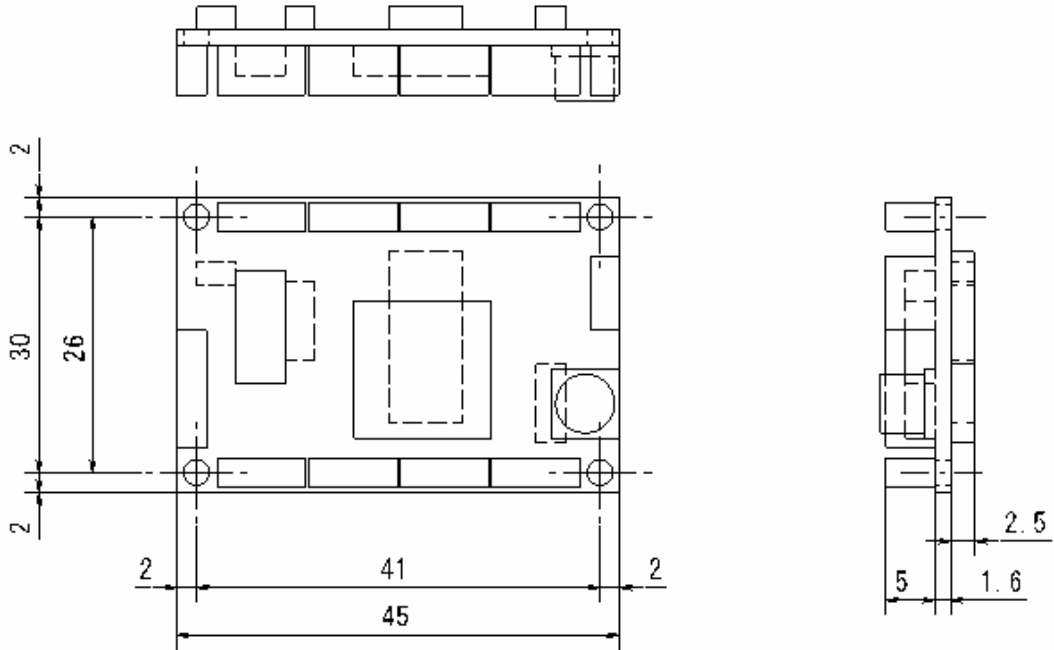


5.3 Connection with Sensors



You can use potentiometer and encoder simultaneously.

6. Dimentions



7. Warning

- If this controller is broken or become malfunction, our company is unaccountable against the damage of your system according to them.
- You should not revamp this controller. If you revamp it, our company abandons its responsibility and support.
- This controller is for academic or hobby use, therefore, You should take care its treatment because this controller has no protective circuit against any noises.
- There is no guarantee period, and our company exchanges this board at only the case of initial unbalance.

Revision
May , 2002 First edition

Company information (Please contact us with E-mail)

iXs Research Corporation

E-mail : info@ixs.co.jp

Headquarter Office

4-17-14 Minamikase, Saiwai-ku, Kawasaki, Kanagawa 212-0055, Japan

Yokohama Office

5-14-10 Komaoka, Tsurumi-ku, Yokohama Kanagawa 230-0071, Japan

This manual is all right reserved.