CAN-2088C FAQ

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Q1. Does CAN-2088C have function to 120-degree angle of the three-phase PWM output?

A:

No, CAN-2088C doesn't the function for 120-degree angle of the three-phase PWM. (2012/12/25, Randy)

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Q2. Does CAN-2088C have a signal function using the outputs that a count is reached?

A:

No, CAN-2088C doesn't have the function which will use the output when a count is reached.

(2012/12/25, Randy)

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Q3. Do counters of CAN-2088C have minimum on/off times set?

A:

No, counters of CAN-2088C don’t have minimum on/off times set.

(2012/12/25, Randy)

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Q4. How much delay of CAN-2088C from hardware input trigger to PWM output?

A:

The delay of CAN-2088C from hardware input trigger to PWM output is about 93 microseconds.

(2012/12/25, Randy)

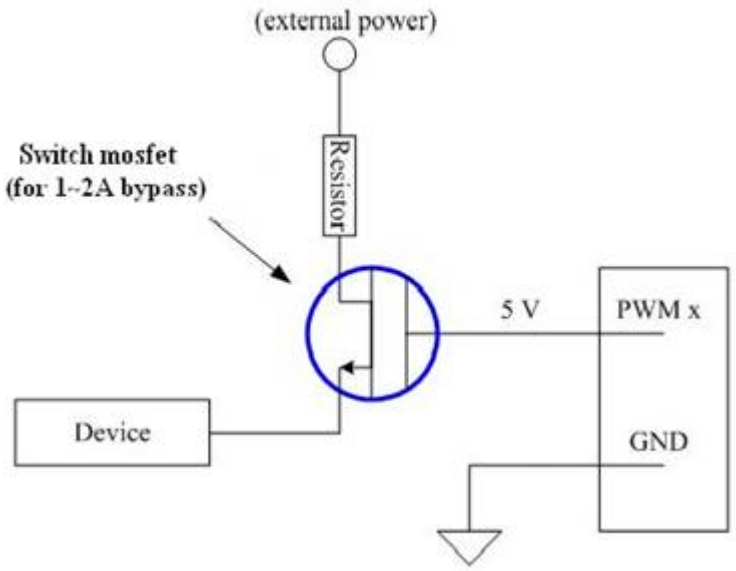
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Q5. Can PWM output of CAN-2088C be with load current up to 1A ~ 2A?

A:

Yes, please refer the below.

Add a switch MOSFET can achieve the load current up to 1A ~2A.



(2012/12/25, Randy)

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Q6. Does CAN-2088C can output PWM to motor and get encoder data with CAN-2088C counter?

A:

No, CAN-2088C counter doesn't support encoder. We recommend used CAN-8223 with I-8088 and I-8084 to implement this application. CAN-8223 can provided CANopen interface, I-8088 can output PWM to motor, and I-8084 counter support encoder function.

(2014/12/19, Ming)

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Q7. How to set the Duty cycle of CAN-2088C

A:

you can refer to the following form.

RxPDO mapping list:

ID	Len	D 0	D 1	D 2	D 3	D 4	D 5	D 6	D 7
200h + x	8	PO 0	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
300h + x	8	Set Duty 0		Set Duty 1		Set Duty 2		Set Duty 3	
400h + x	8	Set Duty 4		Set Duty 5		Set Duty 6		Set Duty 7	
500h + x	8	Cnt clear 0	Cnt clear 1	Cnt clear 2	Cnt clear 3	Cnt clear 4	Cnt clear 5	Cnt clear 6	Cnt clear 7

Table 3-12 Default RxPDO list

example:

If you want to set a duty cycle of 500 (unit: one thousandth), follow the steps below:

1. First set the module to Operation (the module must be set to Operation mode before using PDO messages)

   CANID: 0 D0~D7: 01 Module's ID 00 00 00 00 00 00

   (The following example pictures use the module ID as 0x01 as an example.)

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
0	0	0	0	0	0	0	0	0	0	0	0	8	01	01	00	00	00	00	00	00

2. Send PDO message to set duty cycle:

If you want to set CH0, send the following message

CANID: 0x301 D0~D7: F4 01 00 00 00 00 00 00

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
0	0	1	1	0	0	0	0	0	0	1	0	8	F4	01	00	00	00	00	00	00

If you want to set CH6, send the following message

CANID: 0x401 D0~D7: 00 00 00 00 F4 01 00 00

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11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
0	1	0	0	0	0	0	0	0	0	1	0	8	00	00	00	00	F4	01	00	00

So on and so forth
(2024/12/29 Alina)

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Q8. Do I have to send the PDO message module all the time to have output?

A:

No, but if there is a change to Duty cycle (refer to the picture below), you need to re-enable it before there will be output.

RxPDO mapping list:

ID	Len	D 0	D 1	D 2	D 3	D 4	D 5	D 6	D 7
200h + x	8	PO 0	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
300h + x	8	Set Duty 0		Set Duty 1		Set Duty 2		Set Duty 3	
400h + x	8	Set Duty 4		Set Duty 5		Set Duty 6		Set Duty 7	
500h + x	8	Cnt clear 0	Cnt clear 1	Cnt clear 2	Cnt clear 3	Cnt clear 4	Cnt clear 5	Cnt clear 6	Cnt clear 7

Table 3-12 Default RxPDO list

(2025/12/29 Alina)

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