

Module

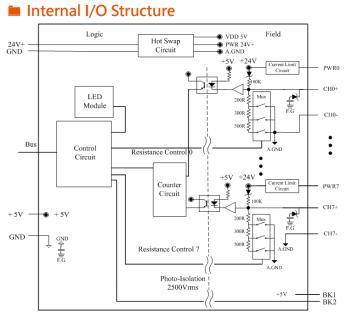
Introduction

The F-8084 is a 32-bit high speed up-counter/frequency module. It can count up to 500 KHz input signal, and accuracy of the frequency mode is $\pm 0.4\%$ FSR. The F-8084 features many diagnostic like some failures of communication, EEPROM, WDT, decoder, etc. When the modules are in the redundant mode and a failure occurs the slave module will take over as soon as possible. It also provides 3000 V_{DC} isolation between the power supply and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the iDCS-8000 system.

Specifications

Feature		
Redundant	Yes (Switching time < 100us)	
Termination board break off detection	Yes	
數位濾波器	Yes (1~32767us)	
LED indicator	1 RUN, 1 ACT, 1 DUX	
Pulse input		
Number of channels	8	
Туре	Counter / Frequency	
Min. pluse width	2us	
Input frequency range	1Hz~500KHz	
Rated voltage	30V _{DC}	
Input voltage range '1'	$4.5V_{DC} \sim 30V_{DC}$	
Input voltage range '0'	<1V _{DC}	
Detection time	2us	
Input impedance	200/500/1KΩ or None(5KΩ)	
Normal input	20mA @24V _{DC}	
channel current		
Max. input current	25mA @20V _{DC}	
Isolation	3000 V _{DC}	

Certification				
Emission	IEC 61000-6-4			
lmmunity	IEC 61000-6-2			
	IEC 61000-4-3			
	IEC 61000-4-4			
	IEC 61000-4-6			
	IEC 61000-4-9			
	IEC 61000-4-10			
	IEC 61000-4-12			
General				
Termination	DN-PI-M			
Board				
Max. Power	1.9 W			
Consumption				
Operating	-25 ~ 75 °C			
Temperature	20 , 5 C			
Storage	-30 ~ 80 ℃			
Temperature				
Humidity	5 ~ 95 % RH, Non-condensing			
Weight	300g			
Dimensions (WxLxH)	30mm x 85mm x 115mm			



Pin Assignment

F-8084	Pin Assignment Name	Te	rminal N	lo.	Pin Assignment Name
	BP_24V+	19	0		DI/O
	Х	18	00	37	BK2
	Х	17	00	36	X
	CH7-	16	0	35	CH7+
	Х	15	00	34	X
	CH6-	14	00	33	CH6+
19 37 -	Х	13	00	32	X
	CH5-	12	00	31	CH5+
	Х	11	00	30	X
	CH4-	10	00	29	CH4+
	х	09	00	28	X
	CH3-	08	00	27	CH3+
7 : F	X	07	00	26	Х
	CH2-	06	00	25	CH2+
	x	05	00	24	Х
	CH1-	04	00	23	CH1+
1 20	x	03	00	22	Х
	CH0-	02	00	21	CH0+
	BK1	01	09	20	х
	37-pi	n mal	e D-Sub	Con	nector

Ordering Information

F-8084 CR	8-ch Isolated High Speed Pulse Input Redundant Module (RoHS)
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Accessories

CA-3710AM CR	DB37 Male to Female, with Molded Cable, 45°, 1M (RoHS)
DN-PI-M CR	Termination board for pulse input module (RoHS)

Dimension (unit: mm)