



F-8084

8-ch Isolated High Speed Pulse Input Redundant Module

Features

- 8 up-counter/ frequency channels
- 32-bit counter
- 1 ~ 32767 us digital filter
- Falling/Rising/Both edge trigger
- Termination board break off detection
- Redundant switching time (<100 us)



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
Type	Counter / Frequency
Min. pluse width	2us
Input frequency range	1Hz~500KHz
Rated voltage	30V _{DC}
Input voltage range '1'	4.5V _{DC} ~30V _{DC}
Input voltage range '0'	<1V _{DC}
Detection time	2us
Input impedance	200/500/1K Ω or None(5K Ω)
Normal input channel current	20mA @24V _{DC}
Max. input current	25mA @20V _{DC}
Isolation	3000 V _{DC}

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

