

ETHERCAT SLAVE COUNTER

XSC-ECAT-CNT2D

Introduction

The EtherCAT slave XSC-ECAT-CNT2D is an incremental encoder counter which provides two independent high-speed counter channels. It reads the pulse train generated by an incremental encoder and can be used in positioning feedback applications. Each channel has two counter (A, B) and one index inputs (Z). The inputs is differential signals. Five counting modes are supported: phase A/B phase difference pulse input ($\times 1/\times 2/\times 4$), Pulse/Direction and Incremental/decremental pulse input.

In addition to the encoder inputs A, B and C, two digital latch and one reset input for each encoder channel allows the latching and clearing of each encoder counter. Encoder position are latched at rising input signal and are recorded in two separate register. Each channel has got an input signal filter for filtering out electrical noises.



FEATURES

- Compact size
- Compatible with EtherCAT networks
- Two channels incremental encoder counters
- Support multiple counting modes
- High speed counting rate
- Support encoder digital input filter
- Support two digital input for counter latching data
- Support preset counter by software
- Support internal and external reset counter

SPECIFICATIONS

Encoder Input	
No. Of Channels	02, Differential input signal
Resolution	32 bit
Mode	A/B phase (x1/x2/x4), Pulse/Direction, Incremental/Decremental Pulse
Max. Input pulse frequency	Up to 4 MHz
Programmable digital filter	0.1 us

External Latch Input	
Channels	02
Input level	10 ~ 30 VDC
Isolation voltage	2500 VDC

External Reset Input	
Input level	10 ~ 30 VDC
Isolation voltage	2500 VDC

Power	
Input Voltage range	+10 ~ +30 VDC
Current consumption	Max. 100 mA

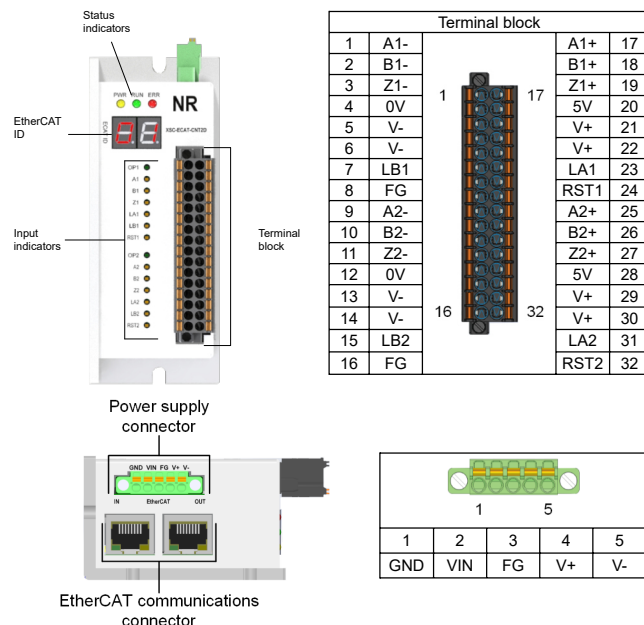
LED indicator	
Diagnostic LED	Power, EtherCAT status, signal status of each encoder input

Communication Interface	
Connector	2 x RJ-45
Protocol	EtherCAT
Distance between stations	Max. 100 m (100 BASE-TX)
Data transfer medium	Ethernet cable (Min. CAT 5e), shielded

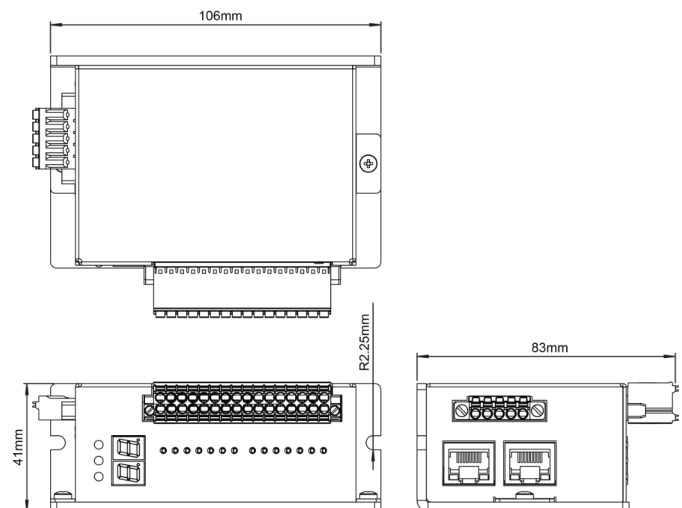
Environment	
Operating temperature	0 ~ 55 °C
Storage temperature	0 ~ 70 °C
Relative humidity	10 ~ 90%RH Non-condensing

Mechanical	
Dimension (W x L x H)	68 mm x 106 mm x 41 mm
Installation	Mounting
Casing	Aluminium

Terminal/input display LED layout diagram



Dimensions (Unit: mm)



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