



XV110 16-ch Isolated DI (3.5 ~ 50VDC) Expansion Board

Features

16-channel Digital Inputs

CE FC Corts

- Dry and Wet Contact, Selectable via Wire Connections
- Long Effective Distance up to 500 meters for Dry Contact

X

- All Channels can be used as 32-bit Counters
- 70 VDC Overvoltage Protection for Digital Input

Introduction

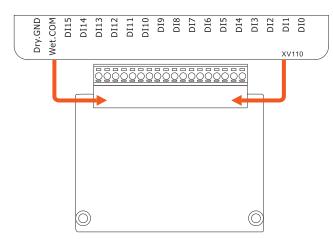
The XV110 provides 16 channels for digital input, catering for both dry and wet contact, with an effective distance for dry contact of up to 500 meters. All channels feature photocouple isolation, and can be used as 32-bit counters. In addition, either sink- or source-type digital input can be selected via wire connections. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise immunity capabilities in industrial environments.

Specifications

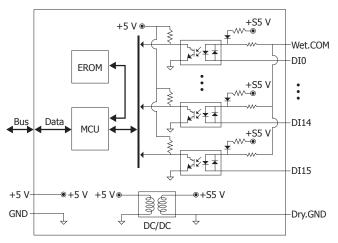
Isolation				
Intra-module Isolation		3750 VDC		
EMS Protection				
ESD (IEC 61000-4-2)		±4 kV Contact For Each Terminal		
		±8 kV Air For Random Terminal		
Digital Input/Counter				
Channels		16		
Туре	Dry Contact	Source		
	Wet Contact	Sink/Source		
	ON Voltage Level	+3.5 ~ 50 VDC		
Wet Contact	OFF Voltage Level	+1 VDC Max.		
Dry Contact	ON Voltage Level	Close to GND		
	OFF Voltage Level	Open		
	Effective Distance	500 m Max.		
Max. Counts		32-bit (0 ~ 4, 294, 967, 285)		
Frequency		50 Hz		
Min. Pulse Width		10 ms		
Input Impedance		10 KΩ, 0.5 W		
Overvoltage Protection		70 VDC		
COM Ports				
Ports		1 x RS-232		
Baud Rate		115200 bps		
Data Format		N, 8, 1		
Protocol		Modbus/RTU		

Power			
Consumption	0.2 W Max.		
Powered from Terminal Block	5 VDC		
Mechanical			
Dimensions (mm)	59 mm x 82 mm x 13 mm (W x L x H)		
Mechanical			
Operating Temperature	-25 ~ +75 °C		
Storage Temperature	-30 ~ +80 °C		
Humidity	10 ~ 90% RH, Non-condensing		

Pin Assignments



Internal I/O Structure



Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
	+3.5 ~ +50 VDC	+1 VDC Max.
Wet Contact (Sink)	H- Wet.COM	× DIx 10K +- Wet.COM
Wet Contact (Source)	+3.5 ~ +50 VDC	+1 VDC Max.
	← DIx 10K - + - + Wet.COM : To other Cont	- + Wet.COM
Dry Contact	Closed to Dry.GND	Open
	Dry.GND +S5 V To other DIx Conternels	Dry.GND +S5 V To other DIx the channels

Ordering Information

XV110 CR

16-ch Isolated DI (Dry/Wet, 3.5 \sim 50VDC) Expansion Board (RoHS)