



XV110

16-channel Isolated Digital Input Module with 16-bit Counters

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 16bit counters. In addition, either sink- or source-type digital input can be selected via wire connections. 4 kV ESD protection and 3750 VDc intramodule isolation are also provided to enhance noise immunity capabilities in industrial environments.

Features

16-channel Digital Inputs

- Dry and Wet Contact, Selectable via Wire Connections
- Photocouple Isolation
- Long Distance Measurement
- 4 KV ESD Protection
- All Channels can be used as 16-bit Counters
- 3750 VDC Intra-module Isolation
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ + 75°C

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Applications

- Industrial Automation
- Building Automation
- Food and Beverage Systems
- Control Systems

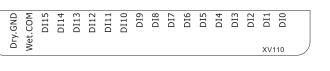
System Specifications _____

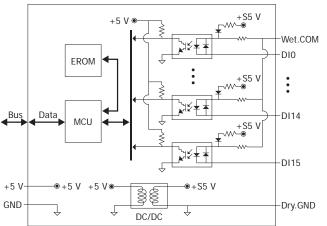
Communication				
Interface	RS-232/TTL			
Format	N, 8, 1			
Baud Rate	115200 bps			
Protocol	Modbus/RTU			
Dual Watchdog	Yes, Module (2.3 seconds), Communication (Programmable)			
Isolation				
Intra-module Isolation, Field-to-Logic	3750 VDC			
EMS Protection				
ESD (IEC 61000-4-2)	+/-4kV Contact For Each Terminal			
	+/-8kV Air For Random Terminal			
Power				
Reverse Polarity Protection	-			
Powered from Terminal Block	5 VDC			
Consumption	0.25 W Max.			
Mechanical				
Dimensions (W x L x H)	59 mm x 82 mm x 13 mm			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +75°C			
Humidity	10 ~ 95% RH, Non-condensing			

I/O Specifications ____

Digital Input/Counter				
Input Channels			16	
Туре —		Dry Contact	Source	
		Wet Contact	Sink/Source	
On Voltage Level		Dry Contact	Close to GND	
		Wet Contact	+3.5 ~ +50 VDC	
Off Voltage Level		Dry Contact	Open	
On voltage	ELEVEI	Wet Contact	+1 VDC Max.	
Input Imp	Input Impedance		10 KΩ, 0.5 W	
	Channels		16	
Counters	Max. Count		16-bit (65535)	
	Max. Input Frequency		100 Hz	
	Min. Pulse Width		5 ms	
Overvoltage Protection		tion	70 VDC	
Effective Distance for Dry Contact		for Dry Contact	500 m Max.	

Internal I/O Structure ____





Wire Connections _

Pin Assignments _____

Digital Input/Counter	Readback as 1	Readback as 0
	+3.5 ~ +50 VDC	+1 VDC Max.
Wet Contant (Sink)	→ DIx 10K + - + - Wet.COM	× DIx 10K
	+3.5 ~ +50 VDC	+1 VDC Max.
Wet Contant (Source)	← DIx 10K - + - + Wet.COM	× DIx 10K + III - + Wet.COM + · - + · + · - + · + · + · + · + · + · + ·
	Closed to Dry.GND	Open
Dry Contant	Dry.GND	Dry.GND × To other DIx To other

Ordering Information

XV110 CR

16-channel Isolated Dry and Wet Contact Digital Input Module With 16-bit Counters (RoHS)

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