



XV116

5-channel Isolated Digital Input and 6-channel Relay Output Module

Introduction _

The XV116 provides 5 channels for digital input, as well as 6 Form A relay output channels. In addition, either sink- or source-type digital input can be selected via wire connections. All input channels can be used as 32-bit counters. The XV116 also provides options for configuring power-on digital output values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise immunity capabilities in industrial environments.

System Specifications —

Communication				
Interface	RS-232/TTL			
Format	N, 8, 1			
Baud Rate	115200 bps			
Protocol	Modbus/RTU			
Isolation				
Intra-module Isolation, Field-to-Logic	3750 VDC			
EMS Protection				
ECD (IEC (1000 4.3)	±4 kV Contact For Each Terminal			
ESD (IEC 61000-4-2)	±8 kV Air For Random Terminal			
Power				
Powered from Terminal Block	5 VDC			
Consumption	1.2 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	-40 ∼ +85°C			
Humidity	10 ~ 95% RH, Non-condensing			

■ Features

- 5 Digital Input channels and 6 Relay Output channels
- Sink- and Source-type Digital Input
- Digital Input Channels can be used as 32-bit Counters
- Configurable Power-on Value Settings
- 70 VDC Overvoltage Protection for Digital Input



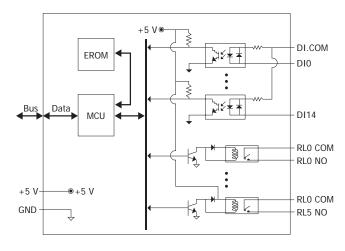
■ I/O Specifications .

Digital Input/Counter					
Input Channels		5			
Туре		Dry Contact	-		
		Wet Contact	Sink/Source		
On Voltage Level		Dry Contact	-		
		Wet Contact	+3.5 ~ +50 VDC		
Off Voltage Level		Dry Contact	-		
		Wet Contact	+1 VDC Max.		
Input Impedance		10 KΩ, 0.5 W			
Counters	Cha	annels	5		
	Max. Count		32-bit (0 ~ 4, 294, 967, 285)		
	Max. Input Frequency		50 Hz		
	Mir	n. Pulse Width	10 ms		
Overvolta	ige F	rotection	70 VDC		
Relay O	utpu	ıt			
Channels		2 (Channel 0,1)	4 (Channel 2 ~ 5)		
Туре		Signal Relay	Power Relay		
Form A Cor Relay Ope Rel Med Enc	Contact Rating		2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC	6 A @ 35 VDC 6 A @ 240 VAC	
		i. Contact id	10 mA @ 20 mV	100 mA @ ≧ 12 V	
	Contact Material		Silver Nickel, Gold-covered	Silver Cadmium Alloy	
	erate Time	3 ms (typical)	5 ms (typical)		
	Rel	ease Time	4 ms (typical)	1 ms (typical)	
		chanical durance	10 ⁸ ops.	30 X 10 ⁶ ops.	
	Electrical Endurance		2 X 10 ⁵ ops.	1 X 10 ⁵ ops.	
Power-on Value		Yes			

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)	DIX 10K To other channels	DIX 10K To other channels	
	+3.5 ~ +50 VDC	+1 VDC Max.	
Wet Contact (Source)	DIX 10K To other channels	DIX 10K To other channels	
Power Relay	Readback as 1	Readback as 0	
Relay Close Relay Close AC/DC To other channels		RLx COM Relay Open AC/DC To other RLx NO channels	

Ordering Information -

XV116 CR

5-channel Isolated Digital Input and 6-channel Relay Output Module with 16-bit Counters (RoHS)