

1.4.13 USB-2068-18



The USB-2068-18 is an 8-channel Form C relay output and 10-channel digital input module with the USB interface. All digital input channels can be used as 16-bit counters. In addition, the digital input channels can be selected either as sink or source type via wire connections. There are also options for configuring power-on and safe values. 8 kV ESD protection(for all channel) and 3750 VDC intra-module isolation(for DI input channel) are also provided to enhance noise protection capabilities in industrial environments.

Relay Output		
Channels		8
Output Type		Form C
Contact Rating (Resistive Load)		0.25 A @ 250 V _{AC}
		0.24 A @ 220 V _{AC}
		2 A @ 30 V _{DC}
Operate Time		3 ms (typical)
Release Time		4 ms (typical)
Insulation Resistance		10 ⁹ Ω at 500VDC
Dielectric Strength	Between Open Contact	1000 Vrms (1 min.)
	Between Coil and Contacts	1500 Vrms (1 min.)
Endurance	Mechanical	1 x 10 ⁸ ops
	Electrical	2 x 10 ⁵ ops (at 30 V / 2 A)
Power On Value		Yes
Safe Value		Yes
Digital Input/ Counter		
Channels		10
TypeDry Contact		Close to GND
Wet Contact		Sink/Source
On Voltage Level		+10 ~ 50 V _{DC}
Off Voltage Level		+4 V _{DC} Max.
Counters	Max. Count	65535 (16-bit)

	Max. Input Frequency	500 Hz
	Min. Pulse Width	1ms
Input Impedance		10kΩ
Overvoltage Protection		70 V _{DC}
Communication		
Interface		USB 2.0 Full-Speed
Watchdog	1 Hardware watchdog (1.6 second)	
	1 Software watchdog (Programmable)	
Isolation		
Intra-Module Isolation, Field-to-Logic		3000 V _{DC}
EMS Protection		
ESD (IEC 61000-4-2)	8 kV contact for each terminal	
	16 kV air for random point	
Mechanical		
Dimensions Front View (W×D×H)		31 mm x 147 mm x 129 mm
Environment		
Operating Temperature		-25 ~ +75°C
Storage Temperature		-40 ~ +85°C
Humidity		10 ~ 95% RH, non-condensing
Power		
Power Consumption		2.3 W (Max.)