

8-Ch. Alarm Monitoring Control

TC3847-6

- Dry Contact Closure Monitoring
- Remote Relay Control
- Works with TCView®
- Provides MIB Files; Works with 3rd Party SNMP Management Software
- VLAN & QoS Support
- Temperature & Power Consumption Monitoring
- Extreme Temp (-40°C to +80°C) Optional
- Meets or Exceeds IEC 61850-3, IEEE 1613 & NEMA TS-2 Standards
- Member of the JumboSwitch® Product Family



TC3847-6 8-Ch. Alarm Monitoring Control

The TC3847-6 is a dry contact closure monitoring interface card for the JumboSwitch (TC3840) product family. It works with the TCView network management system to display remote closure status at the central TCView server site.

The TC3847-6 is often used to monitor the open/close status of equipment cabinet doors, maintain the security of controlled premises, or connect to fire alarms or motion sensors for detecting intrusions into protected areas.

The TC3847-6 provides a built-in relay contact which can be controlled by TCView. For example, the TCView administrator can turn on or off a remote camera, open a gate, alarm siren, video recorder, etc.

The TC3847-6 interface card fits into any available JumboSwitch chassis option including 25 Standalone and 1U/2U/4U card cages. Power supply options are 12VDC, 24VDC, -48VDC or 115/230VAC. Standard operating temperature is -20°C to +70°C and the extreme temperature version is -40°C to +80°C.

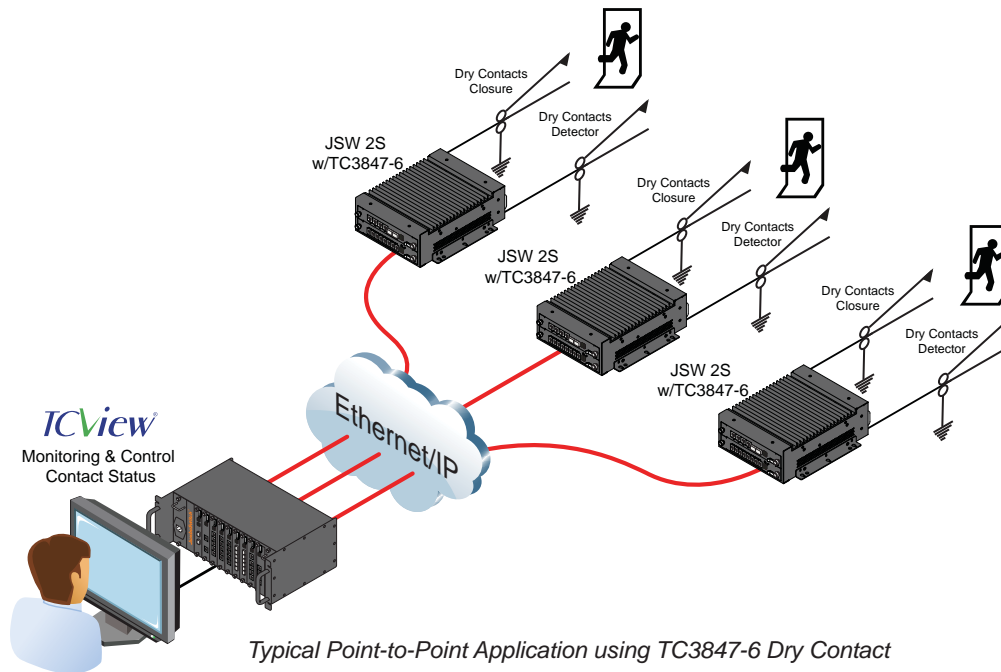
Applications

Specific applications include monitoring the open/close status of equipment cabinet doors, maintaining the security of controlled premises, or connecting to fire alarms or motion sensors for detecting intrusions into protected areas.

Environmental & EMI Compliance

The JumboSwitch product family meets all pertinent industry-specific standards for environmental, performance and security requirements including IEC 61850-3, IEEE 1613, NEMA TS-2 and NERC CIP. Furthermore, future JumboSwitch family products will continue to be compliant with both existing and emerging industry standards and requirements, including developing Ethernet standards. Please refer to the charts below for specific standards compliance information.

	Tests	Industrial Standards	TC Communications - JumboSwitch Type Test and Levels	
			Power Supply Unit (PSU)	RJ-45 & Signal
Temperature/Humidity	Low Temperature Use	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-1; Ae; -40°C; 16 hour	
	Low Temperature Storage	IEC 61850-3, IEEE 1613, NEMA TS-2		
	High Temperature Use	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-2; Be; +80°C; 16 hour	
	High Temperature Storage	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-2; Bd; +85°C; 16 hour	
	Damp Heat	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-30; Db; +55°C; 95%; 96 hours	
Mechanical	Vibration	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-6; Fc; 3 - 150 Hz; 7.5 mm; 2 g; 10 sweeps per axis	
	Shock	IEC 61850-3, IEEE 1613, NEMA TS-2	IEC 60068-2-27; Ea; 30g; 11ms	
ElectroMagnetic Compatibility	Electrostatic Discharge Immunity	IEEE 1613	IEC 61000-4-2; 8kV contact; 15 kV air	
	Radiated RF Immunity	IEC 61850-3, IEEE 1613	IEC 61000-4-3; 80 MHz - 1000 MHz; 20 V/m; AM 80% 1 kHz	
	EFT/Burst Immunity	IEC 61850-3, IEEE 1613	IEC 61000-4-4; 4 kV CM	IEC 61000-4-4; 4 kV CM
	Surge Immunity	IEC 61850-3	IEC 61000-4-5; 4 kV LG; 2 kV LL	IEC 61000-4-5; 4 kV LG; 2 kV LL
	Conducted RF immunity	IEC 61850-3	IEC 61000-4-6; 150 kHz - 80 MHz; 10 V; AM 80% 1 kHz	IEC 61000-4-6; 150 kHz - 80 MHz; 10 V; AM 80% 1 kHz
	Magnetic Field Immunity	IEC 61850-3	IEC 61000-4-8; 50 Hz; 100 A/m cont.; 1000 A/m 1 s	
	Damped Oscillatory Magnetic Field Immunity	IEC 61850-3	IEC 61000-4-10; 100 kHz; 30 A/m	
	Damped Oscillatory Magnetic Field Immunity	IEC 61850-3	IEC 61000-4-10; 1 MHz; 30 A/m	
Power Supply Unit (PSU) Variations	AC Voltage Dips	IEC 61850-3	IEC 61000-4-11; 30% & 100%, 0.5s	NA
	DC Voltage Dips	IEC 61850-3	IEC 61000-4-29; 40% & 70%, 0.1s	NA
	Damped Oscillatory Wave	IEC 61850-3	IEC 61000-4-12; 2.5 kV CM, 1.0 kV DM @1MHz	IEC 61000-4-12; 2.5 kV CM, 1.0 kV DM @ 1MHz
	Conducted PF CM Voltage	IEC 61850-3	IEC 61000-4-16; 50 Hz; 30 V cont.; 300 V 1s	IEC 61000-4-16; 50 Hz; 30 V cont.; 300 V 1s
	Conducted Emission	IEC 61850-3	CE/FCC/CISPR22 class A	CE/FCC/CISPR22 class A
	Conducted emission	IEC 61850-3	CE/FCC/CISPR22 class A	CE/FCC/CISPR22 class A
	Radiated emission	IEC 61850-3	CE/FCC/CISPR22 class A	
Dielectric	Dielectric 50 Hz Test	IEEE 1613	IEC 60255-5; 2 kV	IEC 60255-5; 0.5 kV
	Impulse Voltage Test	IEEE 1613	IEC60255-5; 5 kV	IEC 60255-5; 5 kV



Connection Capacity

Dry Contact.....8 Ports
Ethernet.....1 Port

Electrical

Dry Contact Interface

Load Voltage (peak AC).....60V
Load Voltage (DC).....60V
Continuous load current.....0.55A
Peak load current.....1.5A
Max On Resistance.....2.5 Ω
Output Capacitance.....150pF
Detector Max input voltage.....9V

Ethernet Interface

Standards.....IEEE802.3,
.....802.3u, 802.1p&Q
Connector.....RJ45
Console Port.....2.5mm

Regulatory Approval

CE, FCC Part 15, CISPR (EN55022)
CLASS A, IEC 61850-3, IEEE 1613,
NEMA TS-2

LEDs

Unit Status.....PWR (A, B), Alarm,
.....Vcc, BP, MGM
Port.....Status
Ethernet.....Link/Act

Power

Standard.....12VDC
Optional.....24, -48VDC
.....90-260 VAC, 50/60Hz
Power Consumption.....<10W

Operating Temperature

Standard Temp.....-20°C to 70°C
Extreme Temp-40°C to 80°C

Storage

Temperature.....-40°C to 90°C
Humidity.....95% non-condensing

Physical (rack mount card)

Height.....(3.15cm) 1.24"
Width.....(17.78cm) 7.0"
Depth.....(22.86cm) 9.0"
Weight.....(0.3kg) 0.75lbs



ISO 9001
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Note - Information contained in this data sheet is subject to change without prior notice.