

**SIEMENS**

***MK8000 OPC Server Interface  
Specification for CF9003***

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CF9003

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CF9000 is a flexible I/O system designed for an easy and cost-effective integration of a large spectrum of devices in a LMS supervising centre. Based on an innovative modular approach, it is made up of DIN rail-mounted, 8-point modules that can be combined in a local unit with an intelligent communication module.

The CF9000's design allows for easy installation in cabinets equipped with DIN rails. A local DC power supply is required for each unit. Input voltage can be separated for internal circuit and external I/O.

The CF9000 unit detects any input status change, and transmits this information to the supervising unit. The individual outputs of the modules are activated according to the commands sent by the LMS supervising units.

The communication line to and from the supervising unit is fully monitored. CF9000 can therefore satisfy the requirements of connecting foreign equipment via contacts in any security application - for both existing and future customers - at a competitively low price for its product class.

Each CF9000 unit is composed of a CPU module (CF900x), and by a number of ancillary modules for Input or Output.

At the moment, the module list includes:

CF9003: CPU module for CMX emulation, equipped with a RS-485 interface that can be connected to a BUS, and to the centre via IC-2 / GW-xx.. It can control from 1 to 6 I/O modules on a local I2C bus, and it replaces the CMX line of products by emulating 1 or 2 CMX boards.

DF8040: Module for 8 non-supervised input with galvanic isolation.

DF8020: Module for 8 non-supervised output with NO/NC relay included.

DF8045: 4 NO-supervised input module with optical isolation and cut/short line detection.

DF8046: 4 NC-supervised input module with optical isolation and cut/short line detection.

Summary view

CF9003 Model

CF9003	Obj. Name: BSNOAPMN	NT ID: 1
Control unit	Obj. Name: HWNOCCUD	NT ID: 20
CF9040 - Input module	Obj. Name: HWCOIMGE	NT ID: 24
Digital input	Obj. Name: BSCODIGE	NT ID: 25
DF8045 - Balanced closed input module	Obj. Name: HWCOIMBA	NT ID: 26
Balanced input	Obj. Name: BSCODIBA	NT ID: 27
CF9020 - Output module	Obj. Name: HWCOOMGE	NT ID: 28
Digital output	Obj. Name: BSCODOGE	NT ID: 29
DF8046 - Balanced open input module	Obj. Name: HWCOIMBA	NT ID: 30
Balanced input	Obj. Name: BSCODIBA	NT ID: 27

**CF9003 - ( BSNOAPMN )**

This objects represents the general status of the CF9000 CPU.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

811 Prealarm & Fault Ack

This event is the combination of the Prealarm and Fault state. The event has been acknowledged.

911 Tamper & Fault Ack

This event is the combination of the Tamper and Fault state. The event has been acknowledged.

1000 Quiet



No abnormal conditions present.

1369 Not Aligned

The control unit is not aligned to the field.

1370 Alignment In Progress

The alignment phase is in progress.

1999 Fault Ack

The event has been acknowledged.

Control unit - ( HWNOCCUD )

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Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

---

1999 Fault Ack

The event has been acknowledged.

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## Digital input - ( BSCODIGE )

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This object represents the status of the digital input.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

950 Active

The digital input is active.

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1000 Quiet

No abnormal conditions present.

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## Balanced input - ( BSCODIBA )

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This object represents the status of the digital balanced input.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

901 Tamper Ack

The event has been acknowledged.

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911 Tamper & Fault Ack

This event is the combination of the Tamper and Fault state. The event has been acknowledged.

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950 Active

1000 Quiet

No abnormal conditions present.

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1999 Fault Ack

The event has been acknowledged.

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**Digital output - ( BSCODOGE )**

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This object represents the status of the digital output.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

950 Active



The Digital output is active.

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1000 Quiet



The Digital output is in normal. The Test command activates the output for 10 second.

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