D9068 Fire Digital Alarm Communicator Transmitter (DACT)

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Invented for life

- 12 VDC or 24 VDC operation
- Supports multiple reporting formats
- Five user-programmable input points (Class B, Style B)
- 100-event history buffer
- Dual phone line interface

The D9068 Fire Communicator is a complete digital alarm communicator transmitter (DACT) for use with compatible fire alarm control panels (FACPs). Use dry contacts or open collector outputs for alarms and communications with the D9068.

Functions

Five Input Points
The DACT supports five inputs that can be activated by dry contact relays or open collector outputs. Each of these inputs can be configured for one of seven types of conditions: Fire Alarm, Waterflow Alarm, Supervisory, Monitor Alarm, System Fault, AC Failure and Low Battery.

System Supervision
The DACT is supervised with a hardware watchdog circuit. Failure of the control program results in a hardware reset within two seconds. The on-board trouble relay releases for the duration of the reset (the relay is normally held energized).

The DACT's EEPROM memory, input points, and phone lines are automatically tested periodically. The EEPROM checksum is verified every 10 minutes. If the EEPROM checksum fails, a trouble condition is locally annunciated and a trouble report sent.

Serial Data Input Dialing
The DACT connects through the D9052 Serial Module to the D10024, D10024A, D9024, and D8024 analog FACPs, and transmits by point in all available formats.

User Interface
An FMR-DACT-KEYPAD LCD Keypad connects to a five-pin connector (option bus interface) and is used to program and troubleshoot the D9068. A D7033 Liquid-Crystal Display (LCD) Remote Keypad can also be used.

Reporting Formats
The DACT supports five reporting formats: Modem IIIa^2, Contact ID, SIA110, SIA300, and 4/2.

Report Routing
There are six different report groups that can be routed to one of four phone settings. These report groups consist of non-supervisory alarms, supervisory alarms, alarm restorals, resets, supervisory restorals, tests and troubles, and trouble restorals.

Reset Report
A reset report is sent when the D9068 resets from any off-normal condition.

Phone Line Selection
The DACT follows a pre-determined sequence to select between the phone lines. It also implements the new NFPA requirements for alternation of phone lines during test reporting. The DACT maintains a variable that selects either Phone Line 1 or Phone Line 2 for automatic test reports. After each successful test report, the variable switches to select the other phone line.

Communication Failed Indication
The DACT indicates a communication failure after ten attempts to communicate are completed without success. This causes the trouble output to activate and report the fault.

History Buffer
The DACT has a history buffer that retains up to 100 events. Each event is tagged with the date and time of occurrence. This buffer can be viewed when an FMR-DACT-KEYPAD LCD Keypad (or a D7033 LCD Remote Keypad) is connected to the D9068. When the buffer is full, old events are discarded to make room for new events.

Lightning Suppression
MOVs and spark gaps suppress lightning surges and static discharges for inputs and telephone interface.

Certifications and approvals

Region	Certification	
USA	UL	UOXX: Control Unit Accessories, System (UL864, 9th edition)
	FM	D9068
	CSFM	see our website
	NYC-MEA	26-02-E, Vol. II
	NYC-MEA	26-02-E, Vol. III

Installation/configuration notes

Compatible Products
The following products are compatible with the D9068 Fire DACT:

Category	Product ID	Product Description
Control Panels	D7022	Conventional FACP
	D8024	Analog FACP
	D9024	Analog FACP
	D10024	Analog FACP
	D10024A	Analog FACP
Keypads and Annunciators	D7033	LCD keypad
	FMR-DACT-KEYPAD	LCD keypad
Modules	D9052	Serial interface module

Parts included

Quant.	Component
1	D9068 board
1	Metal enclosure (red)
1	Lightpipe
1	DCT-HWD hardware kit

Technical specifications

Environmental Considerations

Environment:	Indoor, dry
Temperature (operating):	+32°F to +120°F (0°C to +49°C)

Mechanical Properties

Dimensions (HxWxD):	7.75 in. x 5.1 in. x 2.5 in. (19.7 cm x 13.1 cm x 6.4 cm)
Weight:	3.1 lb (1.4 kg)

Outputs

Trouble Relay:	One Form C relay onboard
Relay Rating:	1 A at 30 VDC

Power Requirements (use power-limited source)

Current (alarm):	190 mA maximum
Current (standby):	150 mA maximum
Voltage:	10.2 VDC to 28 VDC

Ordering information

D9068 Fire Digital Alarm Communicator Transmitter (DACT)
Complete digital alarm communicator transmitter (DACT) for use with compatible fire alarm control panels (FACPs)
Order number **D9068**

Represented by:

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:
Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:
Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com

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