



FIRE DEPARTMENT

9 METROTECH CENTER

BROOKLYN, N.Y. 11201-3857

CERTIFICATE OF APPROVAL # 6196 **THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE** **and EXPIRES on JUNE 23, 2018**

By order of Fire Commissioner Daniel A. Nigro, and pursuant to Section FC 112 of the New York City New Fire Code, the following equipment or system is accepted for use provided the conditions as outlined below are in full compliance.

Manufacturer:	Bosch Security Systems, Inc.
Trade Name:	Bosch
Product:	Fire Alarm Control Panel
Basic Model Number(s):	B9512G, B9512G-E, B8512G, B8512G-E
Pertinent Code Section(s):	Section FC 901 of the New York City Fire Code
Test(s) Standards(s):	UL 864 9 th Edition
Laboratory:	Underwriters Laboratories, Inc.
Test Report(s):	UL S1871, Vol. 23, Sec. 2; issued 2015-01-22
Description:	<p>The B9512G, B9512G-E, B8512G, B8512G-E control panels provides up to 599 individually identified programmable points.</p> <p>The control panels include communication modules that send events through public switched telephone network (PSTN), IP network, or cellular network. Internet and Cellular communication modules designed to transmit status of FACP directly to Central Station via Internet or Cellular network.</p> <p>The control panels (B9512G, B8512G) include a built-in Ethernet port for IP network communications, and are compatible with modules that send events to selected public switched telephone networks (PSTN), IP networks, or cellular network destinations through four programmable route groups.</p> <p>The B430 is the telephone module which plugs into the main panel, the B426 is the Ethernet (IP) module, and the cellular modules are the B440, B441, and B443. The Cellular modules can either be plugged into the main panel or connected via the B450 interface module. Cellular modules and the IP options are capable of being the sole path for central station communications, or can be utilized as one half of a dual path system. The B430 can only be used in a dual path system, as either primary or secondary. The B9512G-E and B8512G-E panels have all the same options except for the built-in Ethernet port.</p>

Control Panels along with associated modules itemized in Table 1.

Table 1.

	Bosch No.	Product Description	Prior Approval	UL File
1	D125B	Powered Loop Interface	582-85-SA (4-22-86)	S1871, Vol. 14, S1
2	D129	Dual Class A Initiating Circuit Module	582-85-SA (4-22-86)	S1871, Vol. 14, S1
3	D130	Relay Module	12-92-E Vol. II	S1871, Vol. 14, S1
4	D192G	Notification Appliance Circuit Module	582-85-SA (4-22-86)	S1871, Vol. 14, S1
5	D8004	Transformer Enclosure	582-85-SA (4-22-86)	S5579, Vol. 1, Sec. 1
6	D8129	OctoRelay Module	582-85-SA (3-7-89)	S1871, Vol. 14, S1
7	D8130	Door Release Module	582-85-SA (3-7-89)	S1871, Vol. 14, S1
8	D185	Reversing Polarity Module	12-92-E Vol. VII	S1871, Vol. 14, S1
9	ITS-DX4020-G	GPRS/GSM IP Communicator	COA # 6059	S1871, Vol. 21, Sec. 2
10	D9127T, D9127U	POPIT Module	582-85-SA (3-7-89)	S1871, Vol. 14, S1
11	D8128D	OctoPopit Module	582-85-SA (4-22-86)	S1871, Vol. 14, S1
12	D1255RB, D1256RB, D1257RB	Keypads, Annunciators	12-92-E Vol. IV	S5579, Vol. 1, Sec 91-10
13	D8125	Zone Expander Module	582-85-SA (4-22-86)	S1871, Vol. 14, S1
14	B426	Network Interface Module	COA # 6147	S5579, Vol. 1 Sec. 19
15	C900V2	Dialer Capture Module	12-92-E Vol. XIII	S5579, Vol. 1 Sec. 19
16	D8103, B8103, D8109, D8108A	Enclosure	582-85-SA(4-22-86)	S1871, Vol. 5, Sec. 1

	Bosch No.	Product Description	Prior Approval	UL File
17	ICP-SDI-9114	SDI Splitter	COA # 6059	S5579, Vol. 1, Sec. 9
18	B208	Input Module	COA # 6102	S5579, Vol. 9, Sec. 1
19	B308	Output Module	COA # 6102	S5579, Vol. 9, Sec. 1
20	B299	Popex Module	New	S1871, Vol. 23 Sec. 2
21	B600	Zonex Module	New	S1871, Vol. 23 Sec. 2
22	B925F	Keypad	New	S1871, Vol. 23 Sec. 2
23	B926F	Keypad	New	S1871, Vol. 23 Sec. 2
24	B430	Phone Module	New	S1871, Vol. 23 Sec. 2
25	B440	Cellular Module	COA # 6174	S1871, Vol. 23 Sec. 1
26	B441	Cellular Module	COA # 6174	S1871, Vol. 23 Sec. 1
27	B443	Cellular Module	COA # 6174	S1871, Vol. 23 Sec. 1
28	B450	Cellular Interface Module	COA # 6147	S1871, Vol. 23 Sec. 1

Conditions of Approval:

1. All uses, configurations, arrangements and functions, application and installations shall comply with the provisions of New York City Construction Codes, specifically Building Code Chapter 9 & 1RCNY §3616-04. Further, the installation shall be in accordance with applicable provisions of New York City Fire Code, New York City Electrical Code, manufacturer's installation requirements, and UL Standard 864.
2. The installation of Fire Alarm Control Panel must provide for fail-safe operation. This feature must assure that control of doors, locks, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.
3. When installed for Central Station communication, the installation and operation of the equipment and devices shall comply with 3RCNY §901-01. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic

detection alarm, sprinkler water flow alarm, supervisory signal indications, and trouble indications

4. When installed as a Central Station Internet/Cellular communicator or transmitter **both primary and secondary channels of communication** shall be required and shall meet the conditions of 4.1 – 4.7. **Network communication shall be used as primary channel** of communication with Central Station and **Cellular Communicator shall be used as the secondary channel** of communication **or in reverse order**: Cellular Communicator as primary and Internet connection as the secondary channel.
 - 4.1. Each communication channel shall be monitoring for integrity at intervals not exceeding 24 hours
 - 4.2. Failure any channel of communication shall be annunciated at the protected premises within 5 minutes of failure
 - 4.3. The failure of either channel shall be annunciated at Central Station within 5 minutes of failure by the remaining active channel.
 - 4.4. Reliability of the signal shall be achieved by any of the following:
 - 4.4.1. Signal repetition — multiple transmissions repeating the same signal
 - 4.4.2. Parity check — a mathematical check sum algorithm of a digital message that verifies correlation between transmitted and received message
 - 4.4.3. An equivalent means that provides a certainty of 99.99 percent that the received message is identical to the transmitted message
 - 4.5. The maximum duration between the initiation of an alarm signals at the protected premises, transmission of the signal, and subsequent display and recording of the alarm signal at the Central Station shall not exceed 90 seconds
 - 4.6. A spare Central Station Receiver shall be provided at the Central Station and shall be able to be switched into the place of a failed unit within 30 seconds after detection of failure
 - 4.7. All applicable requirements of Federal Communications Commission (FCC) shall be complied with.
5. The B9512G, B9512G-E, B8512G, B8512G-E FACP shall not be installed as a part of Fire Command Center.
6. All communication devices such as the wireless receiver, repeaters, antennas, control panel wiring, shall be installed and dedicated for communication and transmission of fire alarm system signals and shall be properly secured at all times from unauthorized use. All wiring used for network communications shall be plenum rated cable with a minimum temperature rating of 150°C.

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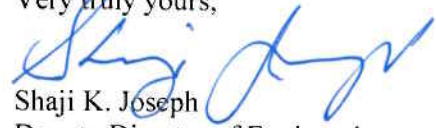
7. The above referenced Control Units shall be used only with listed fire alarm equipment and devices with which the compatibility has been determined by Underwriters Laboratories test reports.
8. The connection of security/burglar devices and equipment to the fire alarm control unit is prohibited. A sign must be provided to indicate the same.
9. Annunciator is acceptable under the condition that this unit shall be used to acknowledge the alarm and all its control functions, including alarm silence and panel reset shall be disabled.
10. Only enclosures painted red in color shall be used.
11. Underwriters Laboratories Inc.'s Listing requirements and limitations shall be complied with.
12. All installations are subject to inspection, test, and approval from Fire Alarm Inspection Unit (FAIU).
13. Any change in Central Station communication service provider shall be reported to FAIU and is subject to re-inspection, test, and approval.
14. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.
15. The Fire Department's conditions of approval shall be enumerated in the installation manuals and brochures that will be provided to all New York City buyers and users.
16. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.
17. The Fire Department reserves the right to withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.
18. As the manufacturer of this product, you should be aware that any end user who fails to comply with the condition as outlined in the approval would be subject to enforcement action, which may include fines and imprisonment.
19. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross design, and the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.
20. Products marked to indicate the Certificate of Approval number might refer to the "NYC Fire Department" or "NYC Fire Dept" (e.g., "NYC Fire Dept Certificate of Approval #XXXX).

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Any change in company name or ownership, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

When responding to this Department regarding this subject matter, kindly refer to F.P. Index # 1502082A and to Igor Chouchereba attention, 9 MetroTech Center #1S-43-K, phone (718) 999-1997.

Very truly yours,



Shaji K. Joseph
Deputy Director of Engineering
Technology Management

c: Tamara Saakian, P.E., Director of Technology Management.

SJ: IC/1502082A