

# **Control Panels**

# B9512G/B8512G/B6512/B5512/B4512/B3512





# 1 ULC Installation Guide

During any ULC installation described within this document, follow all rules for safe installation specified in the CEC (Canadian Electrical Code).

# **Control panels**

Use this guide with the following control panel models (unless otherwise stated) and the model's installation guide:

- B9512G v3.02.006 and higher
- B8512G v3.02.006 and higher
- B6512
- B5512 v3.02.007 and higher
- B4512 v3.02.007 and higher
- B3512 v3.02.007 and higher

The listed control panels are approved as ULC-S559 Fire Alarm Signal Communicators.

# Notice!

# **Control panel mounting**

For mounting on the exterior of vault, safe, or stockroom, install a vibration detector (s304, 8.1.5).

# Combination ULC-S559 and ULC-S304 control panels

The following control panel models can be configured as combination control panels:

- B9512G v3.02.006 and higher
- B8512G v3.02.006 and higher

When used a combination control panel, Fire and Burg points must reside in separate areas.

# Keypads

Use this guide with the following keypad models and the model's installation guide:

- B915/B915I v1.00.017 or higher
- B920 v1.05.004 or higher

# Transformers

For transformers, use:

- B9512G, B8512G. Plug-in or hardwire 120 VAC primary,
  16.5 VAC 37-40 VA secondary Class 2 Power Limited CSA/ cUL listed.
- B6512, B5512, B4512, B3512. Plug-in 120 VAC primary, 18
  VAC 22 VA secondary class 2 power limited CSA/cUL
  Listed. Hardwire 120 VAC primary, 16.5 VAC 40 VA
  secondary Class 2 Power Limited CSA/cUL listed.

Refer to *Compatible transformers, page 15.* Install with ULC Listed devices where applicable.

# Wiring

Use unshielded cable only.

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# Bosch Security Systems B.V. product manufacturing dates

# **Manufacturing dates**

For product manufacturing dates, go to http:// www.boschsecurity.com/datecodes/ and refer to the serial number located on the product label.

# **1.1** Requirements

Key:

- P = Programmable
- R = Required
- O = Optional
- E = Enable

Requirements	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary		
Minimum battery standby	24 hours	24 hours	24 hours	24 hours	4 hours	4 hours		
Battery size <sup>1</sup>	B9512G/B8512G/B6512/B5512/B4512/B3512: 1 x 12 V/7 Ah, 1 x 12 V/18 Ah, 2x 12 V/7 Ah: B9512G/B8512G: 2x 12 V/18 Ah <sup>2</sup>							
Entry delay	≤ 45 sec	Р	N/A	N/A	≤ 45 sec	≤ 45 sec		
Exit delay	≤ 45 sec	Р	N/A	N/A	≤ 60 sec	≤ 45 sec		
Minimum Bell cutoff time	Р	Р	5 min	N/A <sup>3</sup>	4 min	N/A		
Communicator	E	E	E	E	E	E		
AC power	4	4	4	5	4	4		
Tamper protection	R	R	0	0	0	R		
Enclosures	For comp <i>page 9</i> .	For compatible enclosures, refer to <i>Compatibilities,</i> page 9.						

<sup>1</sup> Select battery capacity based on calculated AUX current consumption for the system, including all accessories.

 $^{\rm 2}$  Do not use 2 x 12 V/18 Ah with a Solex 16.5 VAC 37 VA transformer.

<sup>3</sup>Bell should not sound.

<sup>4</sup> Plug-in transformer, optional hardwired connection.

Requirements	CAN/ULC S303 -	CAN/ULC S304 -	CAN/ULC S545 -	CAN/ULC S559 -	ULC-ORD C1023 -	ULC-ORD C1076 -
	Local	Signal Receiving	Residential	Fire Signal Receiving	Household	Proprietary
	Burglary	Centre and Premise	Fire	Centres and Systems	Burglary	Burglary

<sup>5</sup> In ULC-S559 applications, the control panel AC input shall be hard-wired in accordance with Sec. 32 of CSA C22.1, Canadian Electrical Code..

# Communication Channel Security (applicable to Commercial Burglary/Financial installations)

#### Notice!

# Active and passive communication



Systems are passive-only communication systems when the only communication method is over PSTN using the B430 module.

Systems that use the on-board Ethernet, B426 module, or a cellular module are active or passive communication systems depending on the programmed poll rates.

Parameter Requirement Supervision interval for IP and Panel Wide Parameters > Enhanced Cellular communication is 200 Communications > Receiver Supervision seconds (UL) Time set to 200 seconds Supervision interval for IP and Panel Wide Parameters > Enhanced Cellular communication is 180 Communications > Receiver Supervision seconds (ULC) Time set to Custom, Poll Rate set to 89, ACK Wait Time set to 15, and Retry Count set to 5

Applicable for both IP and cellular communication.

Passive levels*	Transmitters and supervision	Receivers	Risk Levels
P1	For transmitters at the protected	D6600 or	Low
P2	premises and supervision of	D6100IPv6	Medium
P3	figures in <i>Fire monitoring communication</i> systems wiring diagrams, page 18.		High

\*Test the transmission on each communication channel every 24 hours. The telephone service should be of a type that provides for timed release disconnect. In order to give the digital alarm communicator transmitter (dialer) the ability to disconnect an incoming call to the protected premises.

Active levels*	Transmitters and supervision	Receivers	Risk Levels	Backup requirements for network equipment
A1	For transmitters at the	D6600 or	Low	24 hr standby
A2	protected premises and supervision of	D6100IPv6	Medium	or dialer as backup
A3	communication channels,		High	
Α4	refer to the figures in <i>Fire</i> <i>monitoring communication</i> <i>systems wiring diagrams,</i> <i>page 18.</i>		Very high	24 hr standby

\*Check-in/polling signal required every 180 seconds.

For equipment used at the protected premises intended to facilitate communications (hubs, routers, NIM, cable modems) 24-hour backup power is required. Where such cannot be facilitated a secondary (backup) communication channel is required.

For using private, corporate, and high speed data networks, network access and domain access policies must restrict unauthorized network access, and "spoofing" or "denial of service" attacks. Select the internet

equipment
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service providers that have redundant servers/systems, backup power, routers with firewalls enabled, and methods to identify and protect against "denial of service" attacks.

For using public switched and wireless data networks, communication channels must be facilitated such that the communicator will restrict unauthorized access which could otherwise compromise security.

# **Fire Monitoring Communication Systems**

Refer to *Wiring, page 15.* The central station receiver must receive fire alarms in 60 seconds and trouble signals in 90 seconds.

Туре	Transmitters and supervision	Receivers
Passive <sup>1</sup>	For transmitters at the protected premises	D6600 or
Active <sup>2</sup>	and supervision of communication	D6100IPv6
	channels, refer to the figures in <i>Fire</i>	
	monitoring communication systems wiring	
	diagrams, page 18.	

<sup>1</sup>Test the transmission on each communication channel every 24 hours. <sup>2</sup>Check-in/polling signal required every 90 seconds.

To monitor a complete fire system, each ULC labeled intrusion system must be connected to a ULC labeled fire alarm control panel. The system must transmit system fire alarms, and supervisory and troubles signals to the central station receiver.

# Programming

You must follow the notes in the installation and programming sections describing the system configurations for ULC Listed installations.

#### Protecting the control panel - Burglary

The local control panel and local power supply must be protected in one of the following ways:

- The control panel and power supply must be located within the area of greatest protection on a tamper protected circuit.
- When arming, each area must arm the area that is protecting the control panel and any external power supply running an audible device. This might require duplicate protection armed by each area. Access to this protected area, without causing an alarm, requires that all areas are disarmed.

Additionally, the protected area for the control panel must be programmed so that it cannot be bypassed, and must be installed in accordance with CAN/ULC-S302 or CAN/ULC-S310.

#### User information

Inform the users of and note the following in the owner's manual:

- Service organization name and telephone number
- The programmed exit time
- The programmed entry time
- Safety precautions specified for the connected equipment.

# **1.2** Compatibilities

#### Accessory compatibility

The following table lists accessories that are compatible with the control panel. An X in a column indicates the accessory is compatible with the standard.

Model number	Descrip tion	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC 5545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary	
			Кеура	ds				
B915/ B915I*	Basic	Х	Х	Х	Х	Х	Х	
B920*	2-line	х	Х	Х	Х	Х	Х	
B921C*1	Capacit ive			Х			Х	
B925F*	Fire/ Burg	Х	Х	Х		Х	Х	
B926F*	Fire			Х				
B930*	ATM style	Х	Х	Х		Х	Х	
B940W	Touch screen	Х	Х	Х		Х	Х	
B942/ B942W*	Touch screen	Х	Х	Х		Х	Х	
Transformers, batteries, power supplies, etc.								
B520	Power supply	Х	Х	Х		Х	Х	
D122/ D122L	Battery harnes s	Suitable f	or use on	approve	ed applicati	ons.		

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#### **Control Panels**

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D135A	Low- battery discon nect	Suitable	for use or	approve	ed applicati	ions	
D126 (12.0 VDC, 7 Ah)	Battery	Suitable	for use or	approve	ed applicati	ions.	
D1218 (12 V, 18 Ah)	Battery	Suitable	for use or	n approve	ed applicati	ions.	
D1640- CA	Transfo rmer	Suitable	for use or	approve	ed applicati	ions in Ca	ınada.
ICP- TR1822- CAN	Transfo rmer	Suitable	for use or	approve	ed applicat	ions in Ca	inada.
			Enclos	sures			
B10*** <sup>2</sup>	Mediu m	Х	х	Х	Х	х	Х
B11 <sup>2</sup>	Small	Х	Х	Х	Х	X	Х
B8103** *	Large, white	Х	X	x	Х	x	Х
D8103** *	Large, grey	Х	X	Х	Х	x	Х

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Model number	Descrip tion	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC 5545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D8109** *	Fire	Х	Х	Х	Х	Х	Х
D8108A* **	Attack resista nt	Х	Х	Х	х	Х	Х
		E	xpansion	module	S		
B208	Octo- input	Х	X			Х	Х
B299	POPEX	х	x	Х		Х	Х
B308	Octo- output	Х	Х			Х	Х
B600	ZONEX	x	x	Х		Х	Х
D125B <sup>3</sup>	Dual initiatin g B	Х	Х			Х	Х
D129	Dual initiatin g A	Х				Х	Х
D192G	NAC	Х				Х	Х
D8125	POPEX	X	X			X	Х
D8125M UX	Multipl ex	Х	Х			Х	Х

Model number	Descrip tion	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D8128D	OctoP OPIT	Х	X			Х	Х
D8129	Octo- relay	Х	X			х	х
D8130	Door release	Х				Х	х
D9127U /T	POPIT	Х	X			Х	х
			Communi	cators			
B426	Ethern et	Х	X		x	X	X
B430	PSTN	Х	X	х	х	Х	Х
B442 <sup>7</sup>	Cellular	Х	X	Х		Х	Х
B44x <sup>7</sup>	Cellular	Х	X	х	х	Х	Х
B450	SDI2 adapte r	Х	Х	Х	Х	Х	Х
			Accesso	ories			
D130	AUX relay	X				X	X

Model number	Descrip tion	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary		
D132A	Smoke reversi ng			X		X			
D161	D161 Phone Suitable for use on approved applications. switche r								
D162	Phone cord	Suitable for use on approved applications.							
ICP- SDI-911 4	SDI splitter	Х	X			Х	Х		
ICP- EZTS	Tamper	X	X	Х		X	Х		
		Do	or contro	(Acces	ss)				
B901 <sup>8</sup>	SDI2 door control ler	X	X	x		X	X		
D9210C <sup>9</sup>	SDI door control ler	X	X			Х	X		
*Approve different	*Approved for use on combination fire and burg systems when on a different bus from fire devices								

Model number	Descrip tion	AN/ULC S303 - ocal turglary	AN/ULC S304 - ignal Receiving entre and Premise	AN/ULC S545 - tesidential ire	AN/ULC S559 - ire Signal Receiving tentres and Systems	ILC-ORD C1023 - Iousehold urglary	ILC-ORD C1076 - roprietary turglary
		Bu CA	CA Si <sub>8</sub> Ce	CA Re Fir	Ce Fic	Bu Ho L	UL Pre Bu

\*\*Combination fire and burg systems using SDI devices might require an ICP-SDI-9114 to separate fire and intrusion devices onto separate circuits. \*\*\*In ULC-S559, the enclosure is certified for use with B9512G/B8512G only.

<sup>1</sup>ULC listed for Proprietary Burglary and Residential Fire only. <sup>2</sup>B6512/B5512/B4512/B3512 only.

<sup>3</sup>Refer to the Dual Class B Initiating Module (D125B) Installation Instructions (P/N: F01U036340) for compatible D125B devices.

<sup>4</sup>Refer to the section within this section for compatible RADION devices.

<sup>5</sup>Refer to the section within this section for compatible Inovonics devices. <sup>7</sup>Check for availability in your region.

<sup>8</sup>B9512G/B8512G/B6512 only.

9B9512G/B8512G only.

# 1.3 Wiring

# Notice!



When used in ULC-S559 installations, B6512/B5512/B4512/ B3512 control panels must have keypads installed in the same room within 18 m and in metallic conduit. B9512G and B8512G control panels are not required to have keypad installed in the same room within 18 m.

 For B6512/B5512/B4512/B3512 control panels, refer to the D135A Installation Guide (P/N: 4998122704) for instructions.

# **Compatible transformers**

Use one of the following transformers when wiring the system.

Manufacturer	Model	B9512G	B8512G	B6512	B5512	B4512	B3512
Bosch	ICP-TR1640-CAN	Х	Х				
Bosch	ICP-TR1822-CAN			Х	Х	Х	Х
Bosch	D1640-WI	Х	Х	Х	Х	Х	Х
Solex*	TRI-WIT 1637C	Х	Х				

\*When using this transformer the max current of the control panel is reduced to 1.0 A and battery back up is reduced to 18 Ah.

# **1.3.1** Input point wiring diagrams

# Required control panel-to-fire alarm panel wiring

Wire three control panel points to the fire control panel outputs. Recommended: Wire as described in this section and follow the specific instructions for each point in *Programming, page 25* 

# Notice!

# **Removable terminals**

For FACP units with detachable terminals, wire the FACP points as Form C relays.

Bosch	Fire alarm
control panel	control unit
COM Point	NC IK C NO

Wire control panel point 1 to the fire control panel's alarm output.

Wire control panel point 2 to the fire control panel's trouble output.

Wire control panel point 3 to the fire control panel's supervisory output.



**Figure 1.1:** Fire alarm control unit dry contact outputs to control panel points 1, 2, and 3

#### **ULC Listed seismic detector**



Figure 1.2: ULC Bank Safe and Vault installation

#### ULC commercial motion detector with tamper



Figure 1.3: Double EOL input

# ULC commercial door/window contact (1)



Figure 1.4: Double EOL input for one Form C contact

# Callout — Description

1 — Point sensor loop terminals

2 — Normally closed device (contact)

3-EOL Resistor – 1.0 k $\Omega$  (2.0 k $\Omega$  and No EOL optional) at device

# **1.3.2** Fire monitoring communication systems wiring diagrams

These wiring diagrams are also representative for Commercial Burglary Monitoring applications.

#### Notice!



Passive systems must send alarm signals over both communication devices programmed as primary. All non-PSTN systems must send reports to the central station

using encryption.

#### Notice!

ULC-S559 for passive systems allows for any compatible communication devices to be used in tandem for the communication system (per section 5.4.2 of S559-13) with the exceptions of S559-13, section 5.4.1. Where passive communication systems are used, there shall be two or more separate communication channels and at least two of the passive communication channels shall use non-interdependent types of communications. A communication channel is a path extending from the protected premises.

Exception: If only one type of passive communication is available at the protected premises, there shall be two channels provided. Separate paths throughout the protected premises and through any common carrier or third party communications network to the fire signal receiving center shall be provided for each communication channel.



#### Dual dialer passive communication system

**Figure 1.5:** Control panel with 2 B430 (PSTN) modules NOTE: Use of 2 B430 modules is permitted only when no other technologies are available.



IP communication systems (on-board IP)

Figure 1.6: Control panel with on-board IP

#### PSTN/IP communication system (on-board IP)



Figure 1.7: Control panel with on-board IP and a 430 (PSTN) module

#### Cellular communication system



Figure 1.8: Control panel\* with a B44x (cellular) module

### Cellular/IP communication system (on-board IP)



Figure 1.9: Control panel with on-board IP and a B44x (cellular) module











**Figure 1.11:** Control panel with a B44x module and a B430 (PSTN) module

Off-board cellular passive communication system - detailed wiring G Series



**Figure 1.12:** B9512G/B8512G\* control panel with a B44x (cellular) module connected through a B450 module



# Off-board cellular passive communication system - detailed wiring B Series

**Figure 1.13:** B6512/B5512/B4512/B3512\* control panel with a B44x (cellular) module connected through a B450 module

# **1.3.3** B Series sounder wiring diagram

For B6512/B5512/B4512/B3512 control panels, use a ULC Listed, 12 VDC (100 mA maximum) sounder connected to output 1.

Configure OUTPUT A to AUX PWR using the jumper. Wire a 12 VDC (100 mA maximum) sounder to OUTPUT A.



**Figure 1.14:** B6512/B5512/B4512/B3512 control panel sounder wiring and hardware configuration

# 1.4 Keypad segment test

You can test B915/B915I and B920 keypads to ensure that the LEDs and display are working.

- ➤ To test a keypad, simultaneously press and hold the [NEXT]/[▼] and [3] keys for 3 seconds.
- $\checkmark$  The segment test lights the LEDs and the display.

NOTE: During the segment test, the B915/B915I reports a missing trouble.

# 1.5 Programming

Complete the programming steps in this section for ULC compliance.

# 1.5.1 Required programming

#### **COMPLIANCE SETTINGS > UL Canada Compliance**

Set the COMPLIANCE SETTINGS > UL Canada Compliance parameter to Yes.

# PANEL WIDE PARAMETERS > Report Routing > Fire Reports > Fire Cancel

Set the PANEL WIDE PARAMETERS > Report Routing > Fire Reports > Fire Cancel parameter for each Route Group (1 to 4) to No.

PANEL WIDE PAI  Phone an  On Board  Cloud Ren  IP Camera  Report Ro  France Report Ro  F	AMETERS IPhone Parameters Ethernet Communicator ggin Module hote Connect s tuting e Reports is Reports		ACCESS AREA W AUTOM CUSTON HARDW KEYPAD OUTPUT PANEL V PDINTS	IDE PARAMETERS ATION / REMOTE APP ANCE SETTINGS AFUNCTIONS ARE SWITCH SETTINGS S PARAMETERS WIDE PARAMETERS	T IIII
FIRE REPORTS	Route Group 1	Route Group 2	Route Group 3	Route Group 4	<b>^</b>
Fire Alarm	Yes	Yes	Yes	No	
Fire Restoral (After Alarm)	Yes	Yes	Yes	No	
Fire Missing	Yes	Yes	Yes	No	E
Fire Trouble	Yes	Yes	Yes	No	
Fire Supervision	Yes	Yes	Yes	No	
Fire Restoral (After Trouble)	Yes	Yes	Yes	No	
Fire Cancel	No	No	No	No	
Fire Supervision Missing	Vae	Vae	Vae	Ma A	

Figure 1.15: Fire Cancel

# **POINTS > Point Profiles (Point Indexes)**

Configure Point Profiles 1, 4, and 6 as shown below. It is important to configure the parameters in order.

# Point Profile 1

Set Alarm Abort to: No.

Set Point Profile Text (First Language) to: Fire Panel Trouble. Set Point Type / Response / Circuit Style > Point Type to: Fire Point.

Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL (1K $\Omega$ ) or Single EOL (2K $\Omega$ ).

Set Response to: 3.

# **Point Profile 4**

Set Point Profile Text (First Language) to: Fire Panel Alarm. Set Point Type / Response / Circuit Style > Point Type to: Fire Point. Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL (1K $\Omega$ ), Single EOL (2K $\Omega$ ), or Dual EOL. If you set Point Type / Response / Circuit Style > Circuit Style to Single EOL (1K $\Omega$ ) or Single EOL (2K $\Omega$ ), set Response to: 1. If you set Point Type / Response / Circuit Style > Circuit Style to Dual EOL, set Response to: 0.

#### **Point Profile 6**

Set Point Profile Text (First Language) to: Fire Panel Supervisory.

Set Point Type / Response / Circuit Style > Point Type to: Fire Point.

Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL ( $1K\Omega$ ), Single EOL ( $2K\Omega$ ), or Dual EOL.

If you set Point Type / Response / Circuit Style > Circuit Style to Single EOL ( $1K\Omega$ ) or Single EOL ( $2K\Omega$ ), set Response to: 9.

If you set Point Type / Response / Circuit Style > Circuit Style to Dual EOL, set Response to: 2.

Point Indexes  Point Indexes	(point profiles) ndexes 1 - 10 ndexes 11 - 20 rindows indows		Ē	AREA WIDE P AUTOMATION COMPLIANCE CUSTOM FUN HARDWARE S KEYPADS OUTPUT PAR, PANEL WIDE POINTS SCHEDULES	ARAMETERS I / REMOTE APP SETTINGS CTIONS SWITCH SETTIN AMETERS PARAMETERS	D NGS	•
POINT INDEXES 1 - 10	1	2	3		4		5 🔺
Point Index Text (First Language)	Fire Panel Trouble	24-hr Invisible/Silent on Sh	Pull Station	1	Fire Panel Alarn	n	S
Point Index Text (Second Language)							
Point Type / Response / Circuit Style	Fire Point	24 Hour	Fire Point		Fire Point		Fi
Entry Dolay	lon	20	on		20	4,	91 T
J •						U	•

Figure 1.16: Point Profiles

oint Inde	x6-FirePar	el Supe	ervisor	1													
Point Type	Fire Point		• (	2		Point R	espons	e 9	-	0							
Circuit Style	Single EOL		•	2		Point COM	0 0	 	3 NO	- 	.0 kΩ <		ло				
									Single E	OL (NC	or NO)						
											Corre	-					
					Sin	gle E	0L - 2	24-Ho	ur Po	ints	Canc						
Point Re	sponse	0	1	2	Sin 3	gle E	OL - 2	2 <b>4-Ho</b>	ur Po	ints 8	9	A	в	С	D	E	F
Point Re	sponse	0	1 T	2	Sin 3 T	gle E	<b>OL - 2</b> 5	2 <b>4-Ho</b> 6	ur Po 7 T	ints 8 S	9 T	A	В	CS	D	E	F
Point Re	esponse Open Short	0 1 1	1 T I	2     	Sin 3 T T	gle E 4	<b>OL - 2</b> 5 T	2 <b>4-Ho</b> 6 1	ur Po 7 T	ints 8 S T	9 T S	AS	B	C S S	D	E	F
Point Re <b>Key</b> :   =	sponse Open Short Instant alar	0 1 1 m; T =	1 T I Troul	2 I T ole; S	Sin 3 T T = Su	gle E 4 I pervis	OL - 2 5 T sory;	24-Ho 6 I Blank	ur Po 7 T = No	ints 8 S T audib	9 T S Ile/vis	A S sual r	B S espor	C S S nse	D	E	F
Point Re Key:   =	Sponse Open Short Instant alar	0 1 1 m; T =	1 T I Troul	2 I T Dile; S	Sin 3 T T = Su	gle E 4 I pervis	OL - 2 5 T sory; I	24-Ho 6 I Blank	ur Po 7 T = No	ints 8 S T audib	9 T S Ile/vis	A S sual r	B S espor	C S S ISE	D	E	F
Point Re Key:   =	sponse Open Short Instant alar	0 1 1 m; T =	1 T I Troul	2 I T ole; S	Sin 3 T T = Su	gle E 4 I pervis	OL - 2 5 T sory; I	24-Ho 6 1 Blank	ur Po 7 T = No	ints 8 S T audib	9 T S Ile/vis	A S sual r	B S espor	C S S	D	E	F
Point Re Key:   =	open Open Short Instant alar	0 1 1 m; T =	1 T I Troul	2 I T Die; S	Sin 3 T T = Su	gle E 4 1 pervis	OL - 2 5 T sory; I	24-Ho 6 I Blank	ur Po 7 T = No	ints 8 5 T audib	9 T S Ile/vis	A S sual r	B S espor	C S S Ise	D	E	F

Figure 1.17: Point Type Response and Circuit Style

### **POINTS > Point Assignments**

Set the POINTS > Point Assignments, Text and Profile parameters, for on-board points 1, 2, and 3 as follows.

# Point 1

Set Point Assignments > Text to: Fire Panel Alarm. Set Point Assignments > Profile to: 4 - Fire Panel Alarm

# Point 2

Set Point Assignments > Text to: Fire Panel Trouble. Set Point Assignments > Profile to: 1 - Fire Panel Trouble

# Point 3

Set Point Assignments > Text to: Fire Panel Supervisory. Set Point Assignments > Profile to: 6 - Fire Panel Supervisory

	POINT	S Point Assignments Cross Point Parameters Point Indexes (point profiles)				REA W UTOMA OMPLIA USTOM ARDWA	IDE PARAME TION / REM NCE SETTI I FUNCTION ARE SWITCH	TERS OTE APP NGS S I SETTIN	IGS	*
POINT	Source	Text	2nd Lang	Index	Description (reference only)	Area	Debounce	Output	RADION RFI	۸ ا
Point 1	Onboard	Fire Panel Alarm		4	Fire Panel Alarm	1	500 ms	0	-	
Point 2	Onboard	Fire Panel Trouble		1	Fire Panel Trouble	1	500 ms	0		
Point 3	Onboard	Fire Panel Supervisory		6	Fire Panel Supervisory	] 1	500 ms	0		-
•				- R	2			-	Þ	

Figure 1.18: Fire Panel Supervisory

#### **PANEL WIDE PARAMETERS > Report Routing**

In the Route Group 4 column:

- Set Fire Reports, Gas Reports, Burglar Reports, Personal Emergency Reports, User Reports, and Test reports to No.
- Set Output Reports, Auto Function Reports, RPS Reports, Point Reports, User Change Reports, and Access Reports to No.
- Verify Diagnostic Reports is set to Custom. The next steps configure the Custom settings.

PANEL WIDE PAF  Phone and  On Board 1  Cellular Plu  Cell	tAMETERS IPhone Parameters Ethernet Communicator grim Module dole Connect s uting a Reports is Reports		4 III	ACCESS AREA WIDE PARA AUTOMATION / F COMPLIANCE SE CUSTOM FUNCTI HARDWARE SWI KEYPADS OUTPUT PARAMI PANEL WIDE PAF POINTS	METERS IEMOTE APP TTINGS ONS TEH SETTINGS ETERS IAMETERS
ROUTING	Route Group 1	Route Group 2	Route	Group 3	Route Group 4
Fire Reports	Yes	Yes	Yes		No
Gas Reports	Yes	Yes	Yes		No
Burglar Reports	Yes	Yes	Yes		No
Personal Emergency Reports	Yes	Yes	Yes		No
User Reports	Custom	Custom	Custor	n	No
Test Reports	Yes	Yes	Yes		No
Diagnostic Reports	Custom	Custom	Custor	n	Custom
Output Reports	Yes	Yes	Yes		No
Auto Function Reports	Yes	Yes	Yes		No No
RPS Reports	Custom	Custom	Custor	n	No
Point Reports	Yes	Yes	Yes		No
User Change Reports	Yes	Yes	Yes		No
Access Reports	Yes	Yes	Yes		No

Figure 1.19: Report Routing

# PANEL WIDE PARAMETERS > Report Routing > Diagnostic Reports

For the Route Group 4 column, set SDI2 Device Failure to Yes. Set the remaining reports to No.

PANEL WDD PARAMET  Phone and Phone  Phone and Phone  Celukar Physin Nucleon  Celukar Physin Nucleon  Phone Phone Con  Phone Phone Con  Phone Phone  Phone  Phone Phone  Phone  Phone Phone  Phone  Phone Phone  Phone	RS Parameters Communicator Jule exect s ts to ta ta ta ta ta ta ta ta ta ta ta ta ta		ACCESS ACCAN AUTOM E HARDW CUSTOL CUSTOL CUSTOL CUSTOL VIPUT PANEL POINTS SCHEDU SDI2MO SHORTC USER CC	DE PARAMETERS TION / BEMOTE APP NUCE SETINGS FUNCTIONS ARAMETERS JAPAMETERS LES LES LES LES LUT MENU NITIGURATION
DIAGNOSTIC REPORTS	Route Group 1	Route Group 2	Route Group 3	Route Group 4
SDI2 Device Failure	Yes	Yes	Yes	Yes
SDI2 Device Restoral	Yes	Yes	Yes	No
Watchdog Reset	Yes	Yes	Yes	No
Parameter Checksum Fail	Yes	Yes	Yes	No
Reboot	Yes	Yes	Yes	No
Phone Line Fail	Yes	Yes	Yes	No
Phone Line Restoral	Yes	Yes	Yes	No
AC Esilors	Maa	Vee	Vee	No

Figure 1.20: SDI2 Device Failure

# PANEL WIDE PARAMETERS > Communicator > Primary Destination Device

For the Route Group 4 column, set Primary Destination Device to Destination 4 for the type of device in use (for example, Onboard IP, Destination 4 if the control panel sends reports using the on-board Ethernet.

PANEL WIDE F  Phone 4  Phone 4  On Boa  Cellular  Cloud R  IP Cam  Phone 4  Conduct Condu	ARAMETERS and Phone Parameters d Ethernet Communicator Plugin Module emote Connect ras Pouting licator ed Communication		4 11 2	ACCESS AREA WIDE PARA AUTOMATION / RI COMPLIANCE SET CUSTOM FUNCTIC HARDWARE SWIT KEYPADS OUTPUT PARAME PANEL WIDE PAR POINTS SCHEDULES	METERS EMOTE APP TINGS INS CH SETTINGS TERS AMETERS	* III *
COMMUNICATOR	Route Group 1	Route Group 2	Route	Group 3	Route Group 4	
Primary Destination Device	No Device	No Device	No De	vice	Onboard IP, Destination	4
Backup Destination Device	No Device	No Device	No De	vice	No Device	
RG Same Network Receiver	Yes	Yes	Yes		Yes	- 1
Time Synchronization	Yes	No	No		No	

Figure 1.21: Primary Destination Device

# PANEL WIDE PARAMETERS > Enhanced Communication > Destinations

In the Destination 4 column, set Network Address to: 0.1.1.1 (this address is intentionally not a real address on the network). Set the following:

- Poll Rate (sec.): 0
- ACK Wait Time (sec.): 5

If any of the Route Group Destination Devices include a B444-A Cellular Communicator, configure those destinations as shown in the figure below, Destination 1. Set the following:

- Receiver Supervision Time: Custom
- Poll Rate (sec.): 60
- ACK Wait Time (sec.): 5
- Retry Count: 3

COMPLIANCE SE	TTINGS			
- PANEL WIDE PA	HAMETERS			
Phone an	d Phone Parameters			
Un Board	Ethernet Communicator			
Cellular Pl	ug-in Module			
Uloud Her	note Connect			
IP Camera	38			
	outing			
Communic	ator			
Enhanced	d Communication			
Enhanced Communication	Destination 1	Destination 2	Destination 3	Destination 4
Reporting Format	Conettix: Modem4	Conettix: Modem4	Conettix: Modem4	Conettix: Modem4
Receiver	N/A	N/A	N/A	N/A
Network Address	192.168.0.11			0.1.1.1
Port Number	7700	7700	7700	7700
Receiver Supervision Time	Custom	Custom	Custom	Custom
Poll Rate (sec.)	60	0	0	0
ACK Wait Time (sec.)	5	300	300	5
Retry Count	3	5	5	0
AES Key Size	No Encryption	No Encryption	No Encryption	No Encryption
AES Encryption Key	<default></default>	<default></default>	<de fault=""></de>	<default></default>

Figure 1.22: Enhanced Communication parameters

# 1.5.2 Recommended programming

AREA WIDE PARAMETERS > Area Name Text > Area 1 For ease of identification, name the AREA WIDE PARAMETERS > Area Name Text > Area 1 parameter FIRE AREA.

# Control panel silencing of fire alarm panel alarm, trouble, and supervisory events

When control panels are configured as described below, they automatically silence keypads connected to the control panel for fire, trouble, and supervisory events from the fire panel.

#### Notice!



#### Automatic silence not available for B3512 control panels

Automatic silencing of fire alarm panel alarm, trouble, and supervisory events is not available for the B3512 control panel. Users must silence these events at the keypad.

#### **CUSTOM FUNCTIONS > Custom Function 128**

Set Custom Function 128 > Custom Function Text to: Silence. Set Custom Function 128 > Function 1 to: Trouble Silence (set Parameter 1 to: Area 1).

Set Custom Function 128 > Function 2 to: Alarm Silence (set Parameter 1 to: Area 1).

E	DS M FUNCTIONS CUT MENU T PARAMETERS		^ 	AREA WIDE PAR AUTOMATION / I COMPLIANCE SE CUSTOM FUNCT HARDWARE SW	AMETERS REMOTE APP TTINGS IONS ITCH SETTINGS		^    
CUSTOM FUNCTIONS	Custom Function Text	Custom Function Text (Second Languag	e)	Function 1	Function 2	Function	*
CF 128	Silence			Trouble Silence	Alarm Silence	Not In Us	-
A 100	In 1999 III				5		

Figure 1.23: Custom Function 128

te Edit Opr Tum Dupu Dif Toge Dupu DneShot Dupu Parel - B6512 Parel - B6512 Tum Dupu Dif Are 3 Area 4 Delay Parel - B6512 Area 5 Cycle Dor Unick Door	
B  Lock Door    B  Secure Door    Access Chit Level  Access Chit Level    Access Denied Events  Access Denied Events    Access Denied Events  Contact RPS    Contact RPS  Contact RPS    Contact RPS  Contact RPS    Contact RPS  Contact RPS    Contact RPS  Contact RPS    Send Staut Neport  Send Test no CINNomal    Send Test no CINNomal  South CIN    Show Date Time  South Value	el Items WIDE PARAMETERS MATION / BENOTE APP TLANCE SETTINGS WARE SWITCH SETTINGS WARE SWITCH SETTINGS WARE SWITCH SETTINGS In 1 Function 2 Function In Stance Alarm Silence Not In Sance Alarm Silence Not In Sance Sance Comparison (Comparison (Compa

Figure 1.24: Area 1 selection

#### **OUTPUT PARAMETERS > Panel Wide Outputs**

For virtual outputs:

Set Panel Wide Outputs > Summary Fire to: 9.

Set Panel Wide Outputs > Summary Fire Trouble to: 10.

Set Panel Wide Outputs > Summary Supervisory Fire to: 19.

EOUTPUT PARA	AMETERS ide Outputs Vide Outputs Configuration	COMPLIANCE SETTINGS CUSTOM FUNCTIONS HARDWARE SWITCH SETTINGS KEYPADS 0 UTPUT PARAMETERS
PANEL WIDE OUTPUTS	Entry	
AC Failure	0	
Battery Trouble	0	
Phone Fail	0	-
Comm Fail	0	
Log % Full	0	
Summary Fire	9	
Summary Alarm	0	
Summary Fire Trouble	10	
Summary Supervisory Fire	19	
C		

Figure 1.25: Panel Wide Outputs

#### **POINTS > Point Profiles (Point Indexes)**

Configure Point Profile 20 as shown below.

It is important to configure the parameters in order.

#### **Point Profile 20**

Set Point Profile Text (First Language) to: CF: Silence.

Set Point Type / Response / Circuit Style > Point Type to: Custom Function.

Leave Point Type / Response / Circuit Style > Circuit Style at the default: Single EOL ( $1K\Omega$ ).

Leave Point Type / Response / Circuit Style > Response at the default: 7.

POINTS  Point Assignments  Cross Point Parameters  Point Indexes (point profiles)  Point Indexes 1 - 10  Point Indexes 11 - 20				COMPLIANCE SETTINGS  CUSTOM FUNCTIONS  HARDWARE SWITCH SETTINGS  KEYPADS  OUTPUT PARAMETERS  PANEL WIDE PARAMETERS  POINTS			
POINT INDEXES 11 - 20	17 18 1		19	9	20	<b>_</b>	
Point Index Text (First Language)	Gas	Gas: Supervisory	A	ux AC Supervision	CF: Silence	E	
Point Index Text (Second Language)							
Point Type / Response / Circuit Style	Gas Point	Gas Point	A	UX AC Supervision	Custom Function	3	
Entry Delay	30	30	31	0	30		
Entry Tone Off	No	No	N	0	No 🔨		
Silent Bell	No No		No		No		
A			A1-	Þ			

Figure 1.26: Point Profile 20

#### **POINTS > Point Assignments**

Set the POINTS > Point Assignments, Source, Text, and Profile parameters, for points 9, 10, and 19 as follows.

#### Point 9

Set Point Assignments > Source to: Ouput.

Set Point Assignments > Text to: Fire Alarm Active. Set Point Assignments > Profile to: 20 - CF: Silence

# Point 10

Set Point Assignments > Source to: Ouput. Set Point Assignments > Text to: Fire Trouble Active. Set Point Assignments > Profile to: 20 - CF: Silence

# Point 19

Set Point Assignments > Source to: Ouput. Set Point Assignments > Text to: Fire Supervisory Active. Set Point Assignments > Profile to: 20 - CF: Silence

POINTS  Point Assignments  Cross Point Parameters  Point Indexes (point profiles)  Point Indexes 1 · 10  Point Indexes 11 · 20				COMPLIANCE SETTINGS  CUSTOM FUNCTIONS  HARDWARE SWITCH SETTINGS  KEYPADS  OUTPUT PARAMETERS  PANEL WIDE PARAMETERS  POINTS					
POINT	Source	Text	2nd Lang	Index	Description (reference only)	Area	Debounce	Outpu	
Point 9	Output	Fire Alarm Active		20	CF: Silence	1	-	0	
Point 10	Output	Point 10		20	CF: Silence	1	-	0	Ξ
Point 11	Unassigned	Point 11		0	Unassigned	1	500 ms	0	
Point 12	Unassigned	Point 12		0	Unassigned	1	500 ms	0	
Point 13	Unassigned	Point 13		0	Unassigned	1	500 ms	0	
Point 14	Unassigned	Point 14		0	Unassigned	1	500 ms	0	
Point 15	Unassigned	Point 15		0	Unassigned	1	500 ms	0	
Point 16	Unassigned	Point 16		0	Unassigned	1	500 ms	0	
Point 17	Unassigned	Point 17		0	Unassigned	1	500 ms	0	
Point 18	Unassigned	Point 18		0	Unassigned	1	500 ms	0	
Point 19	Output	Fire Supervisory Active		20	CF: Silence	1	-	0	-
2.1.00	1			-				· .	-
				~					

Figure 1.27: Point Assignments

# **Bosch Security Systems B.V.**

Torenallee 49 5617 BA Eindhoven Netherlands **www.boschsecurity.com** © Bosch Security Systems B.V., 2022

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