



# DS7420i Dual Phonenumber/Bell Supervision Module



- ▶ One Class A input zone
- ▶ Two supervised 12 VDC signaling outputs

The DS7420i is an accessory board designed for use with the DS7400Xi control panel. It allows the control to be used in NFPA 72 installations. The DS7420i provides two supervised 12 VDC signaling outputs, one Class A (Style D) input zone, and dual phone line transmission and supervision.

## Functions

### One Class A Input zone

The Initiating Device Circuit (Terminals 13-16) is a Class A (Style D) loop intended for connection of normally-open (N/O) dry contact initiating devices such as waterflow switches.

**Note** The Class A loop will not support loop powered devices such as two-wire smoke detectors.

### Two Supervised 12 VDC Signaling Outputs

There are two supervised outputs:

- **Auxiliary Output Circuit:** A 12 VDC, special application supervised output that latches on alarm and resets upon system reset. It is intended for strobes/indicating appliances and supplies up to 1.0 A.

- **Indicating Appliance Circuit (Bell Output):** A 12 VDC, special application supervised output that supplies up to 1.75 A for vibrating bells.

## Certifications and Approvals

UL Standards	UL365, Police Station Connected Burglar Alarm Units and Systems UL468, Audible Signal Appliances UL609, Local Burglar Alarm Units and Systems UL864, Control Units for Fire-protective Signaling Systems UL985, Household Fire Warning System Units UL1610, Control-Station Burglar-alarm Units UL1635, Digital Alarm Communicator System Units
Approvals	CSFM 7565-1062:113; 7165-1062:114 New York City MEA (274-93-E, Vol. IV) FCC Rules, Part 15 - Class B digital device FCC Rules, Part 68 Canadian Interference-Causing Equipment Regulations - Class A digital apparatus CE

## Installation/Configuration Notes

### Commercial Fire Applications

For Commercial Fire applications, the TR1850 transformer must be enclosed in the AE-TR16 Transformer Enclosure. The wiring from the AE-TR16 to the control and the wiring to the outlet box in conduit must also be enclosed in the AE-TR16 Enclosure.

### Wiring

The DS7400Xi control panel must be installed in accordance with NFPA 72 guidelines. The system is power limited except for battery terminals. All wiring entering the system enclosure must be power limited.

## Technical Specifications

### Auxiliary Power Requirements

Current (Alarm):	140 mA
Current (Supervisory):	20 mA
Voltage:	12 VDC nominal

### Environmental Considerations

Temperature (Operating):	0°C to +49°C (+32° to +120°F)
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### Inputs Initiating Device Circuit

Max. Loop Resistance:	150 Ω total
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### Output (Auxiliary Output Circuit)

Current Supplied:	up to 1.0 A
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### Output (Indicating Appliance Circuit Bell Output)

Current Supplied:	up to 1.75 A
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### Reference Numbers

DOC number:	1249 5895 A
FCC Registration number:	ESVUSA-20294-KX-N
Load Number:	2
REN:	0.1B

## Ordering Information

DS7420i Dual Phonenumber/Bell Supervision Module	DS7420i
Provides two supervised 12 VDC signaling outputs, one Class A (Style D) input zone, and dual telephone line transmission.	

### Hardware Accessories

AE-TR16 Transformer Enclosure Required for commercial fire installations.	AE-TR16
TR1850 Transformer Required for Commercial Fire installations.	TR1850

**Americas:**  
Bosch Security Systems  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 585 223 4060  
Fax: +1 800 289 0096  
security.sales@us.bosch.com  
www.boschsecurity.us

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 27 83955  
Fax: +31 40 27 86668  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**  
Bosch Security Systems Pte Ltd  
38C Jalan Pemimpin  
Singapore 577180  
Phone: +65 6319 3450  
Fax: +65 6319 3499  
apr.securitysystems@bosch.com  
www.boschsecurity.com

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