NINE 24, INC

Type or Symbol:	Catalog #: FAI -

Description:
The Fire Alarm / Security Interface option (FAI) is normally to be used in conjunction with a Nine 24 Inc. ELCR product. It allows ELCR units to be actuated by the building fire alarm or security system in the event of an emergency condition (fire, storm, security breach, etc.) The FAI option will also cause the emergency lighting fixtures controlled by the ELCR to Illuminate during fire alarm testing regardless of the status of the controlling switch, relay, etc. With the FAI installed, the ELCR will energize the emergency lighting fixtures it controls during a loss of normal power regardless of the state of the Fire Alarm or Security System.

Features:
Unit has 24vdc power output for use with Fire Alarm or Security System dry contact.

Unit will accommodate the ELCR-R or ELCR-Z10 models
See Wiring Diagrams on back side of this cut sheet.
(Check with Nine 24 Inc. for specific applications)

Unit comes mounted in a 4 $^{11}/_{16}$" square junction box with **Integral low voltage barrier.** Face Plate provided.

Electrical:
Line voltage normally open contact is rated 16 amp (1920w @ 120v and 4432w @ 277v) rating for incandescent, halogen, fluorescent - magnetic and electronic ballasts and LED lighting power supplies.

Low voltage power output is 24vdc.

Single voltage rated for 120v or 277v

Current draw on line voltage is less than 40ma.

Operating temperature: -20°F to 130°F

Relay is UL listed.

Warranty: Limited 3 year product replacement warranty. Contact Nine 24 Inc. for complete Warranty Information.

Specification-Grade Lighting Control for interfacing ELCR products with Fire Alarm and Security Systems

Dimensions and Weight

Box: 4 $^{11}/_{16}$" W X 4 $^{11}/_{16}$" L X 2 $^{1}/_{8}$" D
Faceplate: 4 $^{11}/_{16}$" W X 4 $^{11}/_{16}$" L
Weight: 16 oz.

OREDERING INFORMATION

FAI - _____
Model   Voltage
120 or 277

Control Block Diagrams

FAI used with ELCR Models

Normal Power

Local Sw or System Relay

Normal Neutral

Red
Black

ELCR

White/Black

FAI

Red #1
Red #2
Black
White

Red (24vdc)

Fire Alarm or Security System Normally Closed Contact

Blue (24vdc)

Black (Cap off)
Gray (Cap off)

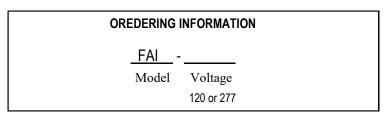**FAI used with BLTC-I or BLTC-R**

Normal Power

Local Sw or System Relay

Normal Neutral

To normal power lights

Red
Black (Orange 277v)

BLTC I or R

White

To normal power lights

Normal Power connections only are shown. See BLTC-I or R cutsheets wiring diagrams for Emergency connections.

FAI

Red #1
Red #2
Black (Orange 277v)
White

Red (24vac)

Fire Alarm or Security System Normally Closed Contact

Blue (24vac)

Black (Cap off)

FAI Used with BLTCv3

Normal Power

Dimmer

BLTC v3

Wire # 4 - Black

Normal Neutral

Wire # 6 - White

NORMAL POWER SENSE

Normal Power connections only are shown. See BLTCv3 cutsheet wiring diagrams for Emergency connections and specific dimming applications.

Norm. Neutral

Wire #3 White

Wire #1 Black Norm. Hot

Wire #2 Red Norm. Hot

If 120v connect ahead of control else cap off
If 277v connect ahead of control else cap off

Do Not Connect both 120 and 277 (wires 1&2) in the same application

FAI

Red #1
Red #2
Black (Orange 277v)
White

Red (24vac)

Fire Alarm or Security System Normally Closed Contact

Blue (24vac)

Black (Cap off)