

Technology that saves lives

# R-Series Remote Annunciators RLCD, RLCD-C, RLED, RLED-C, RLED24, GCI



**FDNY** 7120-1657: 0254

#### Overview

Kidde R-Series Annunciators are high-performance remote annunciators that provide status indication and common controls for compatible fire alarm control panels. This family of annunciators offers LCD or LED annunciation. Models are available with and without common controls.

There are three R-Series annunciator models, plus an LED-based expander. Up to two expanders can be connected to any annunciator. The expander includes 24 pairs of LEDs that extend the capabilities of any of the annunciators.

All annunciator models include status LEDs and an internal buzzer. Two models have an LCD text display, and one has 16 pairs of LEDs for zone annunciation. LCD models feature a large back-lit, four by twenty character per line, super-twist liquid crystal display.

R-Series annunciators and expanders are mounted on a standard 4-inch square electrical box, using the included mounting ring. They can also be surface mounted in locking steel enclosures. Three different enclosures are available.

A keyswitch and graphic annunciator interface is available for R-Series annunciator applications. The keyswitch enables or disables common controls. The graphic annunciator interface cards supports 32 LEDs and 16 switches on the graphic panel display.

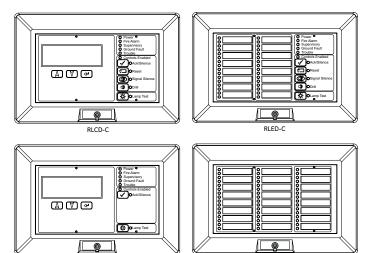
#### Features

- LCD models feature large 4 x 20 character backlit LCD display
- LED models provide 16 pairs of LEDs for zone annunciation
- Available expander extends capability with 24 pairs of LEDs
- Up to two expanders may be wired to each annunciator
- Status LEDs and internal buzzer standard on all models
- Common controls available for LED and LCD display models
- Available keyswitch for disabling common controls
- Standard 4-inch square electrical box mounting
- Class B or Class A RS485 wiring standard
- One-, two-, and three-position enclosures available
- Graphic Annunciator interface, includes common control, indicators and 32 LEDS
- No programing required, set the address and unit receives all information from panel

## Application

R-Series annunciators communicate with the FACP on the RS-485 data riser. This can be configured for Class A or Class B communication. Annunciators do not provide ground fault isolation.

These annunciators are stand-alone units that can be powered by the FACP or by an approved power supply.



RLCD	RLCD-C	RLED-C	RLED24
✓	✓	✓	-
✓	✓	✓	-
✓	✓	✓	-
✓	✓	✓	-
✓	✓	✓	-
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\* zones 13-16 may be selected as Supervisory on FX-64 and VS1

\*\* zones 13-16 and 29-32 may be selected as Supervisory on FX-1000 and VS4

## Graphic Annunciator Interface

The GCI Graphic Annunciator Driver is an interface card that connects the fire alarm control panel to the display panel of an LED-based graphic annunciator.

The annunciator card supports 32 LEDs and 16 switches on the graphic panel display. It includes status LEDs and an internal buzzer.

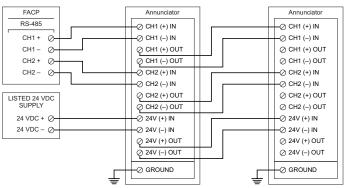
The graphic interface is supplied with snap track mounting. It is attached to a plastic mounting rail that requires two EIA panels.

The annunciator communicates with the FACP on the RS-485 data riser. This can be configured for Class A or Class B communication. The annunciator does not provide ground fault isolation. It is a stand-alone unit that can be powered by the FACP or by an approved power supply.

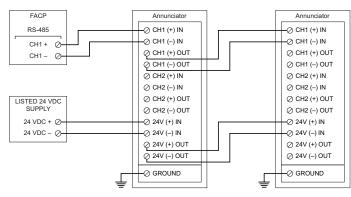
Graphic Annunciator Interface Specifications		
Alarm current	146 mA at 24 Vdc (with 36 LEDs ON)	
Standby current	36 mA at 24 Vdc (with no LEDs ON)	
Maximum current	10 mA per LED	

## Annunciator Wiring

Annunciator, Class A



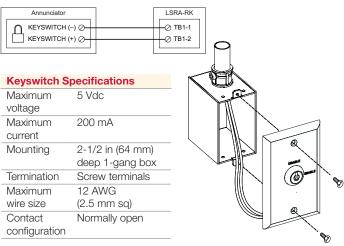
#### Annunciator, Class B



#### Expander

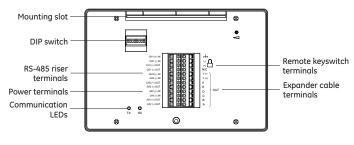
Annunciator	First Expander		] [	Second	Expander
OUT	IN	OUT		IN	OUT
V (-) Ø	⊘ V (_)	V (−) ⊘		⊘∨(-)	V (-) Ø
V (+) ⊘	⊘ V (+)	V (+) ⊘		⊘V(+)	V (+) Ø
F⊘-	−⊘F	F ⊘		−ØF	F⊘
E ⊘-	−⊘E	E ⊘		⊘E	E⊘
D Ø	−⊘ ¤	D ⊘		−⊘D	D⊘
c⊘-	−⊘c	C ⊘		−⊘c	c⊘
B⊘-	⊸⊘в	B⊘		⊸⊘в	B⊘
A Ø	-ØA	A ⊘		Ø A	A⊘
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## Remote Keyswitch

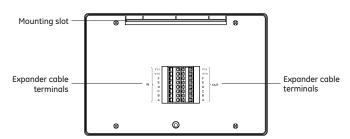


# Annunciator Connections

Annunciator

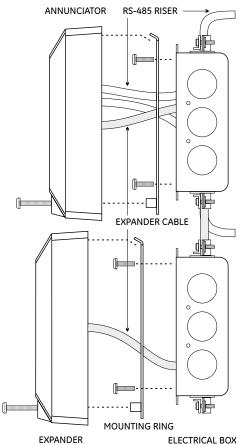


Expander



DIP switch settings		
Switch	Description and values	
S1 to S5 Network address	The annunciator network address (in binary). The factory setting is for address 2. Examples: $10000 = 1\ 01000 = 2\ 11000 = 3\ 00100 = 4$	
S6 Network baud rate	OFF = 9600 baud (factory default setting) ON = 38,400 baud	
S7 to S8	Not used	

# Annunciator Mounting

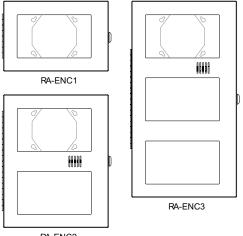


## Annunciator Enclosures

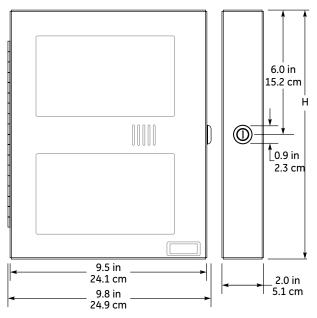
The RA Remote Annunciator Enclosures provide secure, surface mounted protection for annunciators and extenders. Each consists of a back plate, hinged cover, and key lock.

The enclosures are 16-gauge welded steel with a white, painted finish. Each enclosure includes a security lock and two keys. The two- and three-position enclosures have wiring channels for correct routing of interconnections.

The enclosures attach to a standard electrical box, and provide a mounting lip that takes the place of the integral mounting ring supplied with the annunciators and expanders.



RA-ENC2



#### Dimensions (H x W x D)

RA-ENC1	6.3 x 9.8 x 2.0 in (16.0 x 24.9 x 5.1 cm)	
RA-ENC2	12.0 x 9.8 x 2.0 in (30.5 x 24.9 x 5.1 cm)	
RA-ENC3	17.7 x 9.8 x 2.0 in (45.0 x 24.9 x 5.1 cm)	

Note: Allow approximately 2 inches (50 cm) clearance on both sides of the enclosure, to permit inserting and removing the key, and opening the door through 90 degrees.



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# Specifications

	RLCD-C	RLCD	RLED-C	RLED24
Operating voltage	24 VDC, continuous.			
Standby current	99 mA	98 mA	28 mA	6 mA
Alarm current	115 mA	113 mA	62 mA	34 mA
RS-485 communications		Class A or Clas	s B, 9600 baud	
Data wiring	18 to 14 AWG (1.0 to 2.5 sq mm) twisted pair (6 twists per foot minimum). Maximum wire run is 4,000 ft. (1,219 m)			
Remote key switch circuit	5 VDC at 1 mA, power-limited, unsupervised			
Ground fault impedance	0			
Power wiring		18 to 14 AWG (1	.0 to 2.5 sq. mm)	
Display area	4 lines of 20 characters each			
Dimensions (H x W x D)	5-5/8 x 8-1/2 x 1-1/2 in. (14.3 x 21.4 x 3.8 cm)			
Mounting	North American 4-inch square electrical box or listed enclosure			
Agency Listing	UL, ULC			
Operating environment	Temperature: 32 to 120°F (0 to 49°C) Humidity: 0 to 93% RH, noncondensing at 90°F (32°C)			

# Ordering Information

Part	Description
Remote Annur	nciators
K-RLCD	LCD text annunciator without common controls. English.
K-RLCD-R	LCD text annunciator without common controls. English. Red.
K-RLCDF	LCD text annunciator without common controls. French.
K-RLCD-C	LCD text annunciator with common controls. English.
K-RLCD-CR	LCD text annunciator with common controls. English. Red.
K-RLCD-CF	LCD text annunciator with common controls. French.
K-RLED-C	16-pair LED zone annunciator with common controls. English.
K-RLED-CR	16-pair LED zone annunciator with common controls. English. Red.
K-RLED-CF	16-pair LED zone annunciator with common controls. French.
Remote Expar	nders
K-RLED24	24-pair LED zone expander with expander cable and zone card insert.
K-RLED24R	24-pair LED zone expander with expander cable and zone card insert. Red.
Enclosures	
RA-ENC1	One-position enclosure for Remote Annunciator.
RA-ENC2	Two-position enclosure for Remote Annunciator and one Remote Expander, including one interconnection cable.
RA-ENC3	Three-position enclosure for Remote Annunciator and two Remote Expanders, including two interconnection cables.
LSRA-MIR-SB	Surface Mount Box - for single R Series annunciator.
Graphic Annu	nciator Drivers
GCI	Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures.
Accessories	
RKEY	Remote key switch on plate for enabling common controls (Lock/Unlock).
27193-16	Electrical box, surface mount, white, single-gang, for RKEY.

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