

# Releasing Modules

## Installation Instructions

### for FireSpy® Tracker Series Control Panel

#### SAFETY MESSAGE TO INSTALLERS

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with this product. Listed below are some other important safety instructions and precautions you should follow.

- This unit must be installed and maintained by a qualified electrician in accordance with NFPA 72 and National and local Electrical and fire codes, under the direction of the authority having jurisdiction.
- Do not connect this unit to system wiring when circuits are energized.
- After installation and completion of initial system test, provide a copy of this instruction sheet to all personnel responsible for operation, periodic testing and maintenance of this equipment.
- Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you and others.

#### GENERAL

The Tracker T8000, T2000, and T1000 provide 16 releasing circuits. The interface to a releasing device consists of a power source, an Apollo / ISpy input/output (IO) module, a URM relay, and a polarizing end-of-line device. The modules needed for the releasing function are available pre-assembled and pre-wired in a cabinet. The power source can be a NAC circuit on the Tracker panel set to continuous auxiliary power mode or any UL864 listed control unit with a power limited output rated Regulated 24 DC.

#### INSTALLATION

Refer to the Tracker 8000 installation manual for battery calculations and other additional requirements for installing the assembly in the fire panel system.

Refer to the manufacturer's installation instructions for the cabinet and

Specification	Rating
Listed	ETL, Standard UL864
NFPA 72 Service	Releasing device service
Use / Environment	Commercial / Indoor, dry
Temperature range	32 to 120° F
Maximum relative humidity	93%

Table 1: General specifications

modules used.

Use only the releasing valves shown in the compatibility list (Table 2).

#### Wiring

##### WARNING

To reduce the risk of electrical shock, make sure that all power has been turned off or disconnected prior to attempting to install wiring or connect power.

See Figure 1 for wiring.

#### OPERATION

Refer to Table 3 for settings not allowed by regulations.

Modules in the releasing group can be assigned to operate in the following functions: Pressure Switch, Delayed Trip, Instant Trip, Abort Switch, Halt Switch, or Releaser. A releasing sequence begins by operation of a smoke detector or other initiating device assigned to the releasing circuit. Upon initiation, a delay timer is started. When the delay time expires, the releasing device is energized. Then a duration timer is started. When the duration timer expires, the releasing circuit is de-energized. Refer to the sequence diagram (Figure 2).

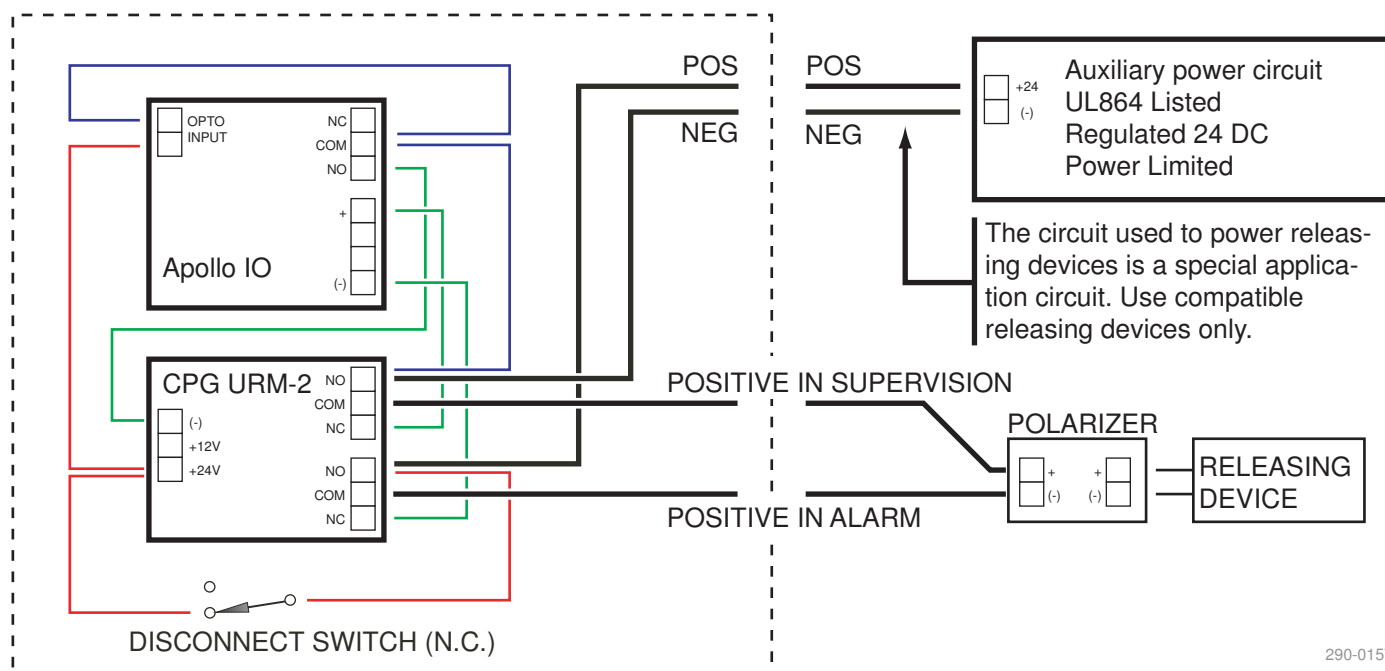


Figure 1: Wiring

290-0157

Manufacturer	Models	Description	Electrical rating
Asco	8210A107 series	1/2 in. NPS, 5/8 in. orifice	16.8 Watts (700mA @ 24Vdc)
Asco	8210G207 series	1/2 in. NPS, 1/2 in. orifice	10.6 Watts (440mA @ 24Vdc)
Parker Hannifin (Skinner)	73212 series	1/4 to 1 in. NPT, 1/4 to 1 in. orifice	10 Watt (420mA @ 24Vdc)
Parker Hannifin (Skinner)	73218 series	3/8 to 1-1/4 in. NPT, 1/2 to 1-1/8 in. orifice	10 Watt (416 mA @ 24Vdc)
Viking	11591, 11592, 11595, 11596	1/2 in. NPT, 9/16 in. orifice	10 Watt (416 mA @ 24Vdc)
Viking	11601, 11602	1/2 in. NPT, 5/8 in. orifice	9 Watt (338 mA @ 24Vdc)
Viking	13215	1/2 in. NPT, 5/8 in. orifice	9 Watt (338 mA @ 24Vdc)
Viking	13843, 13844	1/2 in. NPT, 5/8 in. orifice	2 Watt (250 mA @ 24Vdc)

Table 2: Releasing valve compatibility

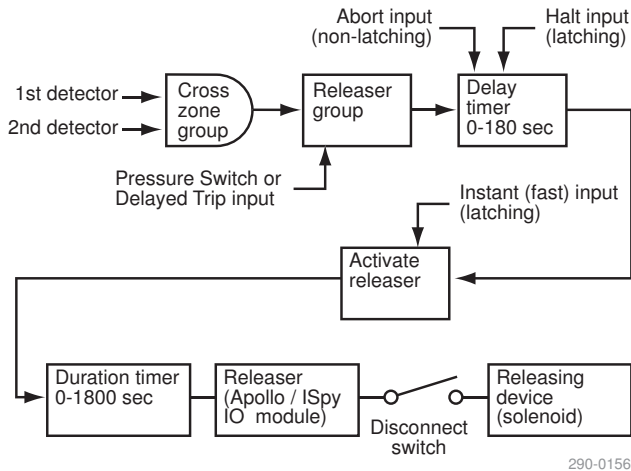


Figure 2: Releasing sequence

Assign the IO module shown in the wiring diagram as a Releaser. It interfaces to a releasing device solenoid, providing supervision of the releasing circuit and the disconnect switch.

Modules or detectors assigned a Pressure Switch or Delayed Trip function initiate a sequence that will cause the associated releasing device to energize. The sequence includes the delay timer.

Modules or detectors assigned as an Instant Trip energize the releasing device without performing the delay.

Modules assigned as Abort Switch are able to stop the delay timer when it reaches 10 seconds, thus preventing energization of the releasing device. Restoring the abort input allows the delay timer to restart. Subsequent activation of the abort input will again stop the timer. The Abort function has no effect if the delay timer has timed out.

Modules assigned to operate as a Halt Switch are able to interrupt the

delay timer, thus preventing energization of the releasing device. Restoring the halt input does not allow the delay timer to restart; the releasing sequence remains halted. The halt can only be cleared by resetting the panel.

The releasing circuit includes a disconnect switch. While the switch is set to the disconnect position, the releasing device cannot be energized. The panel will indicate a supervisory event until the switch is set to the normal position.

## MAINTENANCE

Refer to the control panel documentation for maintenance, testing, and programming details.

## ORDERING INFORMATION

Model	Stock No.
Expander cabinet for releasing	T-EXPR
Apollo / ISpy IO Module	IS813
URM2 Relay	T-URM2
Polarizing end-of-line device	T-POL
All of the above pre-assembled / pre-wired	T-RLS

## SERVICE

To get help with problems or questions not covered in these instructions, contact:

Technical Service Department  
Harrington Signal Inc.  
2519 - 4th Avenue  
Moline, IL 61265  
(800) 577-5758

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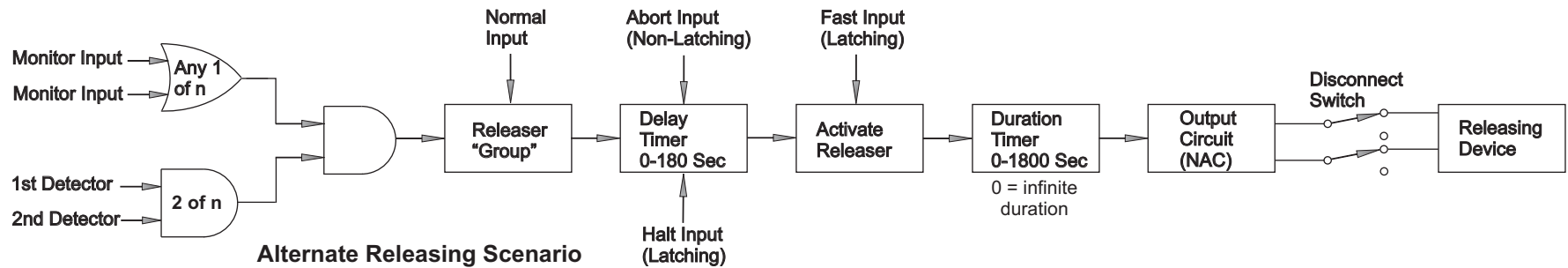
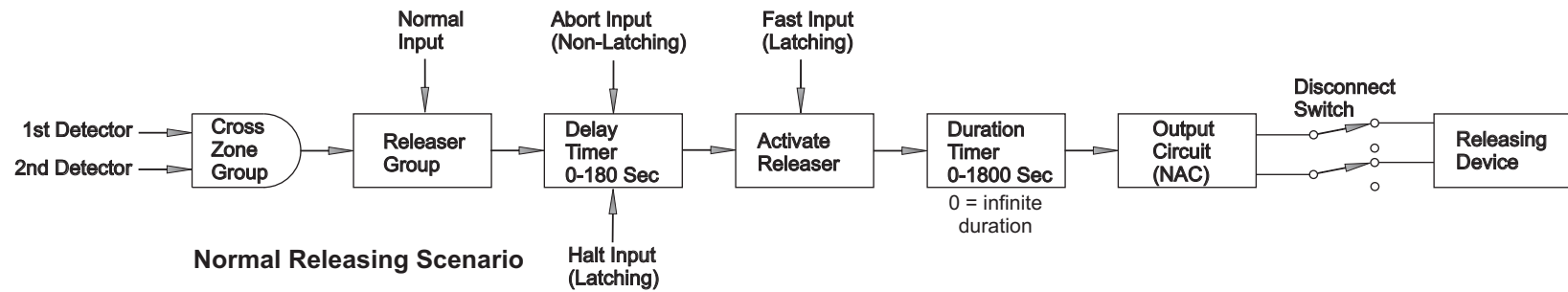
## NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHER INVOLVED PARTIES

This product incorporates field-programmable software. In order for the product to comply with regulations, certain programming features or options must be limited to specific values or not used at all as indicated below.

Feature or option	Regulation*	Settings not allowed	Settings allowed
Alarm verification	36.5.3, 36.6.3	Alarm verification is not permitted on any device that is used as part of the cross-zone or multiple detector initiating operation.	Verify that alarm verification is not used on any device used in cross-zone or multiple detector initiation.
Abort switch	36.3.1	Abort switches shall not be used on systems intended to perform pre-action or deluge water functions.	Do not assign the abort or halt function to modules used in the releasing operation.
Time delay	36.1.7	An automatic delay provided prior to release operation by a system shall be a maximum of 60 seconds.	Verify that the time delay is set to 60 seconds or less.

\* Sections cited are from the Standard for Control Units and Accessories for Fire Alarm Systems, UL 864 ninth edition

Table 3: Settings not allowed by regulations



# Releaser Operation

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## Programming through the Keypad for releasing

### Setting up the Releasing Circuit

1. Press Program and enter your pass code, then press # 1 Program.
2. At Program Menu, Press the Arrow down key or press key #7 (Group Settings).
3. Select #3 Release
4. The first line lets you select from 1-16 ( the number of releasing circuits the system supports).
5. When you are on the releasing # you want to edit or make changes to Press the Enter/ACK button this moves you over to the (D) the releaser is disabled to enable it press the right arrow key. Now the releasing circuit is active, and then press the down arrow to move to the Message line if you choose to change the text.
6. Arrow down to the Sensor Trip count and select the number of sensors you want to be active before the releasing circuit can be turned on.
7. Pressure Loss Switch, (Y or N).\
8. PDC LED Row (1-10) LED's on the front of the panel.
9. LDV Zone: (1-255) To activate LED's on the LED graphic driver for Tabular or Graphic annunciators.
10. Release Delay: (0-180) in seconds.
11. Supervisor group: 3 Supervisory groups can be assigned
12. Releaser Duration: (0-1800) in seconds
13. Alarm Groups: 3 Alarm groups can be assigned Setting up the devices

1. Program Menu: Select #6 Point Settings.
2. Browse Points #2
3. Select LC #1
4. Here you will have to arrow back to the right, if you want to go to any other circuit other then #1.
5. If you select number 02 you then have to select the right arrow to move you over to the point numbers. Then you enter the address you want to edit.
6. When you get on the address you want to set up, Press the enter button, this moves you to the (E) that the device is enabled.
7. Once your on the (E) you can either select the up or down arrow button to move down and start setting up the following: **text message, Mode , Grps** or press up and go to the releasing selections, or go through all of the grps then it will jump you to the back screen. The selection at the screen will give you the Release Circuit: **1-16** you want to assign the module to and the **Mode:** choices **Pressure Switch, Delay Trip, Instant Trip, Abort Switch, Halt Switch.** These choices are for modules only
8. The detectors can be assigned to a releasing circuit by going in and browse points and select the devices. Press Enter at the device to get on the (E) then press the up arrow. The back screen gives you a choice of Release Circuit: (1-16) place the releasing circuit # you want it to be associated with.

When programming the FACP for releasing, configure all Input Modules for designated Pressure Switches, Delayed Inputs and Fast Inputs in the Alarm mode of operation. The Input Modules for designated Abort and Halt switches should be programmed for Non-Reporting, Non-Latching Mode of operation.