

RCE-95 Installation Instructions

Addressable Relay Control Element

The RCE-95 addressable Relay Control Element is designed for use with the IF650/630 Fire Alarm Control Panel with the AAM-95 module installed. The RCE-95 provides the hardware and the electronic interface necessary to provide remote dry Form "C" contacts for control of building functions such as door holders, elevator control, dampers or disconnects. It also provides positive feedback input points for positive confirmation of the controlling device(650 Systems Only). Contacts are rated at 2 amps 30Vdc, or 0.5 amps 120Vac non-inductive. The common contact is fused at 2 amps.

Installation Guidelines

Install the RCE-95 according to NFPA70, NEC 760, and any applicable local codes.
Mechanical: The RCE-95 is designed to fit on the front of a 4¹¹/₁₆ by 2¹/₈ inch deep electrical box. (User supplied) The addition of the trim ring (P/N 70839) allows flush installation. The RCE-95 must be addressed (programmed) before the system will operate correctly. Maximum loop resistance of the Feedback Circuit is 50 Ohms. To activate Feedback place switch 8 "A" in the "OFF" (open)

Wiring

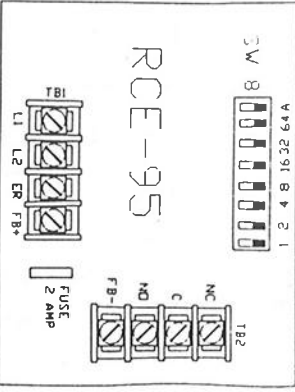
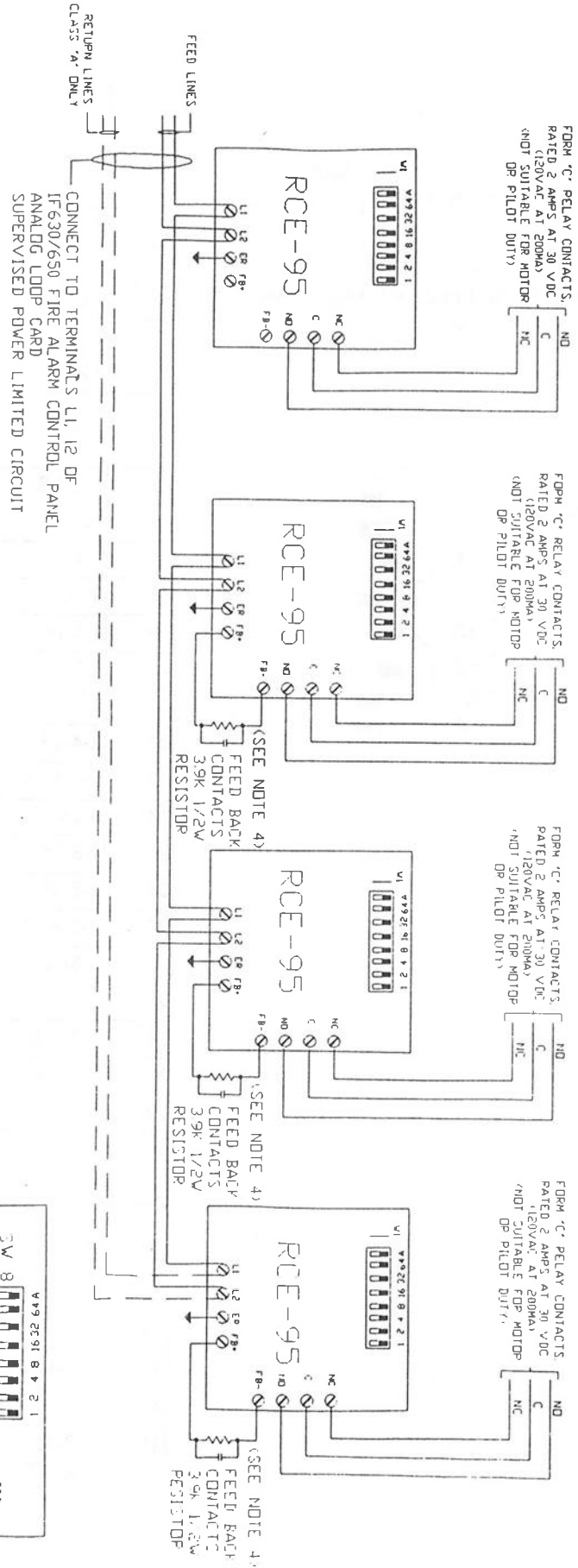
Connect the system wiring to the four position terminal block per wiring B-W450-2. Connect the remote controlled devices wiring to the four position terminal block per wiring B-W450-2. If the feedback option is used, (650 Systems Only) connect a 3900 ohm (3.9k) ½ watt resistor per wiring B-W450-2 and place the S1 (switch 8) position "A" in the open (off) position.
Important! Maximum loop resistance not more than 50 ohms. **Caution-** No wiring connections should be made while the system is powered.

Maintenance & Testing

No periodic maintenance of the RCE-95 is required. However, periodic testing should be done. Before testing you **MUST NOTIFY** the personnel in charge of the Fire Alarm Panel, because this may disrupt normal business operations. In addition, the Local Fire Department must be notified if they are connected to the Fire Alarm Panel.

P/N 71493
 Issue 2 - 11/27/96

- NOTES:
1. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH N.F.P.A. PAMPHLET #70, ARTICLE #760.
 2. OBSERVE POLARITY WHEN WIRING. MAKE NO CONNECTIONS WHILE SYSTEM IS POWERED.
 3. OTHER ADDRESSABLE DEVICES MAY BE CONNECTED ON THE SAME LOOP SUCH AS DETECTORS, COLLECTIVE ZONE INTERFAC, SIGNAL CONTROL ELEMENTS, BUILDING CONTROL ELEMENTS, PIDS AND MANUAL STATIONS.
 4. TO ACTIVATE FEEDBACK CONTACTS PLACE SWITCH 8 "A" IN THE "OFF" OPEN POSITION
 5. IF POWER LIMITED CIRCUITS ARE USED, USE CABLE PULP, DR PLP OR EQUAL. CONDUCTORS THAT EXTEND BEYOND THE JACKET MUST BE SEPARATED FROM NON POWER LIMITED WIRING BY 0.25 INCHES.



WIRING, RCE-95
 RELAY CONTROL ELEMENT

Alarm Operation

Test the RCE-95 for alarm operation by activating one of the initiating devices connected to the Fire Alarm System. Then confirm the normal alarm functioning of the unit including Activation or deactivation of the controlled device(s), and illumination of the LED on the front of the unit. If feedback is connected then insure the proper indications are observed at the 650 control panel.

Trouble Operation

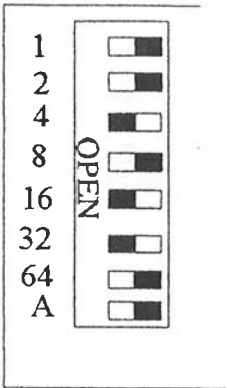
Test module supervision trouble by removing both wires from terminals "L1" or "L2", and then confirm a trouble indication at the Control panel. This also verifies proper field wiring and correct address programming. Reconnect the wires after test.

RCE-95 Specifications	
Temperature	0°C to +49°C 32°F to 120°F
Humidity	85%, Non-condensing
Power	21Vdc from Analog Addressable Module
Normal Current	.0055
Alarm Current	.0063
Fuse	2 amp 5x20MM
Contact Rating 30Vdc	2 amp
Contact Rating 120Vac	0.5amp

Programming(Addressing)

To program the RCE-95 place required switches in the "OFF" (OPEN) position. See Figure 1 Example: To set Address "52" - place switches 4,16,32 in the "OFF" (OPEN) position. To activate Feedback place switch 8 "A" in the "OFF" (open)

Figure 1
Top View



ADD	OPEN SWITCHES	ADD	OPEN SWITCHES	ADD	OPEN SWITCHES
1	1	43	1-2-8-32	85	1-4-16-64
2	2	44	4-8-32	86	2-4-16-64
3	1-2	45	1-4-8-32	87	1-2-4-16-64
4	4	46	2-4-8-32	88	8-16-64
5	1-4	47	1-2-4-8-32	89	1-8-16-64
6	2-4	48	16-32	90	2-8-16-64
7	1-2-4	49	1-16-32	91	1-2-8-16-64
8	8	50	2-16-32	92	4-8-16-64
9	1-8	51	1-2-16-32	93	1-4-8-16-64
10	2-8	52	4-16-32	94	2-4-8-16-64
11	1-2-8	53	1-4-16-32	95	1-2-4-8-16-64
12	4-8	54	2-4-16-32	96	32-64
13	1-4-8	55	1-2-4-16-32	97	1-32-64
14	2-4-8	56	8-16-32	98	2-32-64
15	1-2-4-8	57	1-8-16-32	99	1-2-32-64
16	16	58	2-8-16-32	100	4-32-64
17	1-16	59	1-2-8-16-32	101	1-4-32-64
18	2-16	60	4-8-16-32	102	2-4-32-64
19	1-2-16	61	1-4-8-16-32	103	1-2-4-32-64
20	4-16	62	2-4-8-16-32	104	8-32-64
21	1-4-16	63	1-2-4-8-16-32	105	1-8-32-64
22	2-4-16	64	64	106	2-8-32-64
23	1-2-4-16	65	1-64	107	1-2-8-32-64
24	8-16	66	2-64	108	4-8-32-64
25	1-8-16	67	1-2-64	109	1-4-8-32-64
26	2-8-16	68	4-64	110	2-4-8-32-64
27	1-2-8-16	69	1-4-64	111	1-2-4-8-32-64
28	4-8-16	70	2-4-64	112	16-32-64
29	1-4-8-16	71	1-2-4-64	113	1-16-32-64
30	2-4-8-16	72	8-64	114	2-16-32-64
31	1-2-4-8-16	73	1-8-64	115	1-2-16-32-64
32	32	74	2-8-64	116	4-16-32-64
33	1-32	75	1-2-8-64	117	1-4-16-32-64
34	2-32	76	4-8-64	118	2-4-16-32-64
35	1-2-32	77	1-4-8-64	119	1-2-4-16-32-64
36	4-32	78	2-4-8-64	120	8-16-32-64
37	1-4-32	79	1-2-4-8-64	121	1-8-16-32-64
38	2-4-32	80	16-64	122	2-8-16-32-64
39	1-2-4-32	81	1-16-64	123	1-2-8-16-32-64
40	8-32	82	2-16-64	124	4-8-16-32-64
41	1-8-32	83	1-2-16-64	125	1-4-8-16-32-64
42	2-8-32	84	4-16-64	126	2-4-8-16-32-64