HOCHIKI
america corporation

INSTALLATION INSTRUCTIONS FOR FFO-2RM DUAL RELAY MODULE

The information contained in this installation instruction is a quick reference guide. For detailed system information refer to the panel manufacturer's installation manual. This instruction will not address specific programming procedure.

GENERAL DESCRIPTION

This instruction applies to the DCP Dual Relay Module (FFO-2RM) which is to be connected to a DCP Signaling Line Circuit (SLC). The FFO-2RM provides two separately controlled sets of Form C dry relay contacts for general purpose control functions at one address point. Typical applications are where normally open or normally closed contacts are needed. Examples are: elevator recall, door closure, turning fans on or off, and auxiliary indications.

MOUNTING REQUIREMENTS

The DCP Relay module is mounted as shown in Figures 2 and 2A on page 2 of this instruction.

WIRING

NOTE: All wiring must conform to local codes, ordinances and regulations

1) Install module wiring in accordance with the job drawings and appropriate wiring diagram (see Fig.3).

2) Secure the module to a U.L. listed electrical box (supplied by installer), as shown in Figures 2 and 2A.

3) Address must be set before cover plate is attached with no loop power applied, or the loop wires disconnected (see Figure 1).

NOTE: An average of 6.75mA (communication current) per loop of SLC devices, must be factored into the panel battery backup calculations.
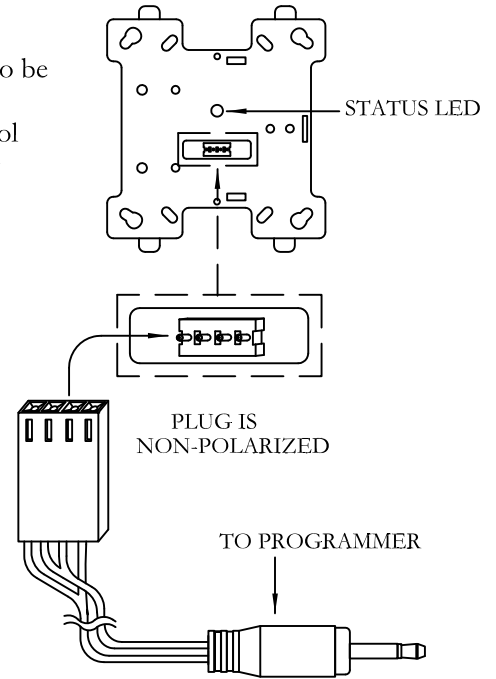

STATUS LED

PLUG IS
NON-POLARIZED

TO PROGRAMMER

FIGURE 1.
EXPLODED VIEW OF ADDRESS
PROGRAMMING PLUG AND CONNECTOR

CAUTION !!!
TO ENSURE PROPER
OPERATION CONNECT THIS
MODULE TO A COMPATIBLE
FIRE CONTROL PANEL ONLY.
REFER TO PANEL
INSTRUCTIONS FOR PROPER
CONNECTION AND
COMPATIBILITY.

CAUTION !!!
If this module will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service.
Disconnect power to the control panel before installing the module

SPECIFICATIONS

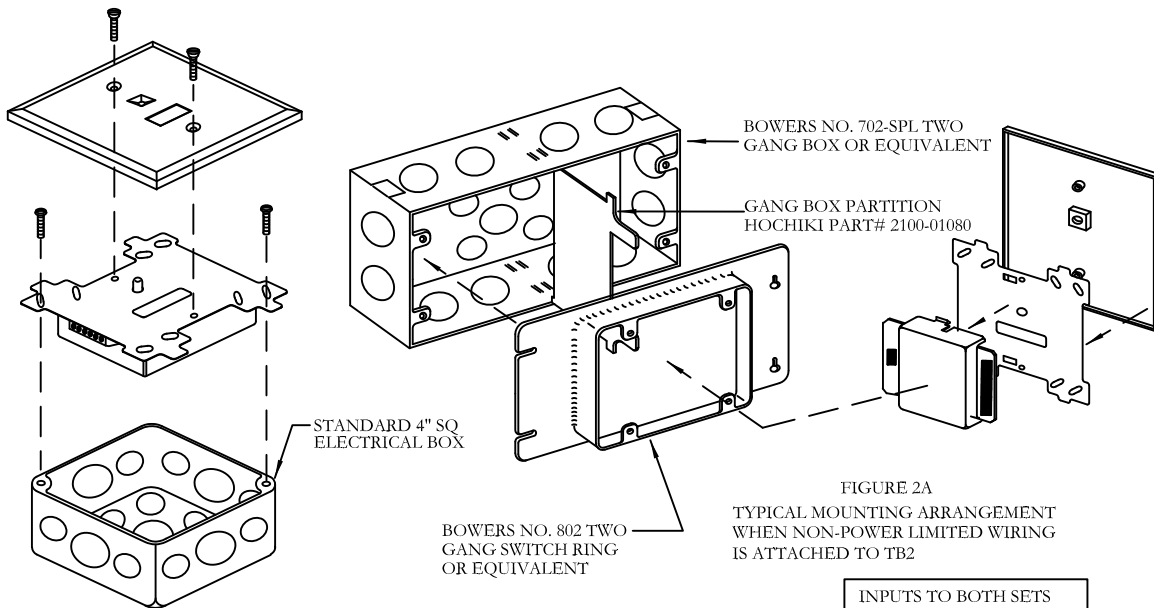|	
SLC Applied Voltage	Rated Range 25.3 − 39 VDC
SLC Current Consumption	Maximum 400µA Nominal 390µA
Relay Contact Ratings	1A @ 30VDC Power Factor 0.35 or 0.5A @ 120VAC Power Factor 0.35
Visual Indicator (Status LED)	bi−color LED − Green & Red Color & Mode − Selected and Programmed by Control Panel's software
Operating Temperature Range	0°C (32°F) ~ 49°C (120°F)
Storage Temperature Range	−30°C (−22°F) ~ 70°C (158°F)
Maximum Relative Humidity	Up to 90% RH non−condensing
Environment	Indoor dry use only
Dimensions	4.2"W X 4.7"H X .85"D
Weight	Approximately 3.0 ounces

BOWERS NO. 702-SPL TWO
GANG BOX OR EQUIVALENT

GANG BOX PARTITION
HOCHIKI PART# 2100-01080

STANDARD 4" SQ
ELECTRICAL BOX

BOWERS NO. 802 TWO
GANG SWITCH RING
OR EQUIVALENT

FIGURE 2A
TYPICAL MOUNTING ARRANGEMENT
WHEN NON-POWER LIMITED WIRING
IS ATTACHED TO TB2

FIGURE 2
TYPICAL MOUNTING ARRANGEMENT
WHEN POWER LIMITED WIRING IS
ATTACHED TO TB2

INPUTS TO BOTH SETS
OF FORM "C" CONTACTS
MUST BE EITHER POWER
LIMITED OR NON-POWER
LIMITED. DO NOT MIX
POWER LIMITED WIRING
WITH NON-POWER
LIMITED WIRING ON TB2.

ALL WIRING SHOWN ON
TB2 IS NOT SUPERVISED.
CONTACTS ARE SHOWN IN
STANDBY MODE - REFER
TO CONTROL PANEL'S
OPERATION MANUAL FOR
PROPER RELAY OPERATION
AND CONFIGURATION.

CROSS OUT TYPE OF
WIRING NOT USED WITH
A PERMANENT MARK

Note: SLC circuit is in reference to S, and SC

OUT TO NEXT MODULE

U.L. LISTED
COMPATIBLE
FIRE CONTROL
PANEL

ALL WIRING SHOWN ON TB1
IS SUPERVISED AND
INHERENTLY POWER LIMITED

NOTE: Only the same size wire
from 12 to 22 AWG may be
connected terminal block TB1 when
more than one conductor is being
connected under each terminal.
Maximum of 2 conductor per
terminal.

Hochiki America Corporation
FFO-2RM
SERIAL NO. XXXXXXXXX

S, SC WIRING
POWER LIMITED

POWER
LIMITED

NON
POWER
LIMITED

SC

For Dry Indoor
Use Only

S +

For Mounting Position/
Proper Installation,
see HA-06-280 Rev 10/11

CROSS OUT
TYPE NOT
USED

S5694

SIGNALING
UL
LISTED

DUAL RELAY MODULE

FIRE ALARM EQUIPMENT
1880

TB2

NO1
COM1
NC1
NO2
COM2
NC2
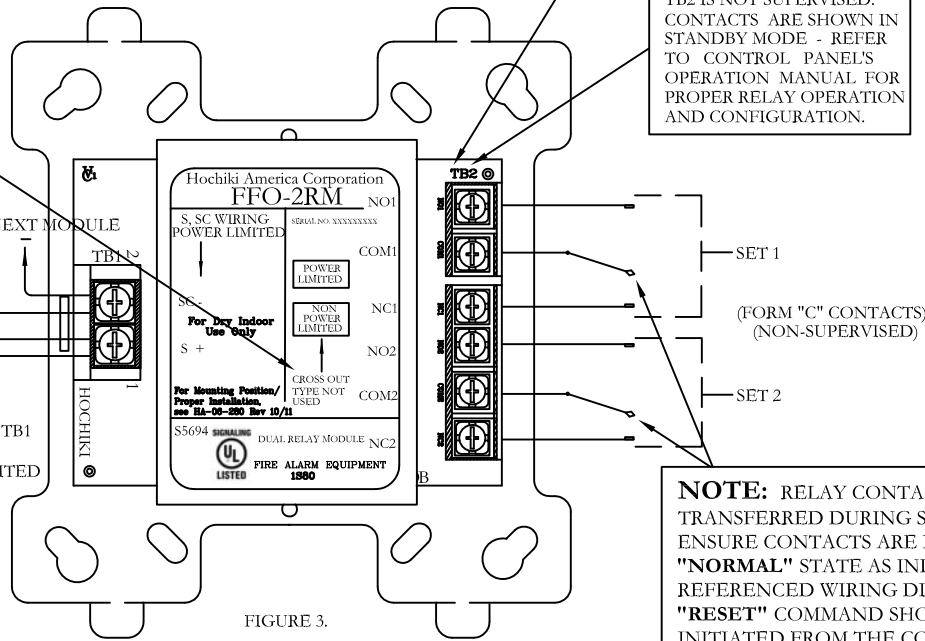
SET 1

(FORM "C" CONTACTS)
(NON-SUPERVISED)

SET 2

FIGURE 3.
WIRING DIAGRAM

NOTE: RELAY CONTACTS MAY HAVE
TRANSFERRED DURING SHIPPING. TO
ENSURE CONTACTS ARE IN CORRECT
"NORMAL" STATE AS INDICATED IN
REFERENCED WIRING DIAGRAM, A
"RESET" COMMAND SHOULD BE
INITIATED FROM THE CONTROL PANEL
PRIOR TO CONNECTION OF CIRCUITS
CONTROLLED BY THE MODULE.

One Year Limited Warranty

Hochiki America (HA) warrants its digital communication modules to be in conformance with it's own plans and specifications and to be free from defects in materials and workmanship under normal use and service for a period of one (1) year from date of delivery. All warranties are void and HA is not obligated to repair or replace equipment which has been repaired by others, abused, improperly installed, altered or otherwise misused or damaged or exposed to conditions outside the products specifications in any way. HA will not be responsible for any dismantling, reassembling or re-installation charges. Please contact HA's Sales department for proper procedure for claims and return of merchandise. This warranty is in lieu of all other warranties expressed or implied.