![HOCHIKI america corporation logo]

INSTALLATION INSTRUCTIONS FOR DCP-DIMM DUAL INPUT MONITOR MODULE

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

GENERAL DESCRIPTION

This instruction applies to the DCP-DIMM Dual Input Monitor Module which is to be connected to a DCP Signaling Line Circuit (SLC). Typical applications are manual pull stations, water flow devices or any dry contact alarm device, N/O contacts can be monitored.

MOUNTING REQUIREMENTS

The DCP Dual Input Monitor module is mounted as shown in Figure 2 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. 2.
2) Secure the module to a U.L. listed electrical box (supplied by installer), see Fig. 3.
3) The device address must be set before the cover plate is attached, see Fig. 1.

NOTE:

Radio **F**requency **I**nterference and **E**lectro-**M**agnetic **I**nterference are sources of noise that can adversely affect the fire alarm systems installation. When installing fire alarm system devices, avoid placing devices or wiring close to potential noise sources such as:
• Transmitters or antennas;
• Ballast lighting;
• Electrical motors;
• Large power transformers;
• Large machines.
Avoid running SLC circuit in the same conduit as power lines. Utilize twisted pair and shielded wire in environments where excessive noise is expected.
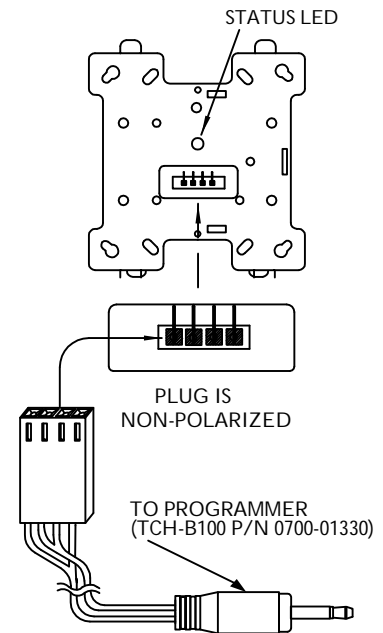

FIGURE 1. DIMM PROGRAMMING

Module	Feature
DCP-DIMM-I	Integrated SCI
DCP-DIMM	No SCI

INTEGRATED SCI SHORT CIRCUIT ISOLATOR OPERATION

The DCP-DIMM-I module has built-in integrated SCI circuitry. In the event of a short on the S-SC line, the SCI circuit will activate and its Yellow LED indicator will be turned on steady and the module will report the short circuit condition to the Fire Control Panel.
The SCI has a fast response time but the Control Panel will momentarily detect a short before the SCI circuit breaks open if the short occurs during normal operation. However, if the S-SC line was short before power-on, the Control Panel will only detect an open loop because the SCI switch circuit never closes. In that case, it will rely on the module to report a short.
The SCI circuit will prevent entire loop failure in case of a short. Upon removal of the short condition, the SCI will automatically restore the entire loop to normal operating state.

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

SPECIFICATIONS	
SLC Applied Voltage	Rated Range 25.3 — 39 VDC
SLC Current Consumption	Maximum 6.3mA Nominal 1.1mA
SCI Isolation Current	10mA (Typical)
EOL Device for Input	HOCHIKI AMERICA CORP. EOL Part NO. 0400—03180 10KΩ, 1/4W, 1/4inch or HOCHIKI AMERICA CORP. EOL Part NO. 0400—01000 22KΩ, 1/4W, 1/4inch
Visual Indicator (Status LED)	Bi-color LED — Green & Red Color & Mode — Selected and Programmed by Control Panel's software Yellow Led — (SCI version only) Yellow LED on indicates SCI circuit is ACTIVE
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 1.4"D
Weight	Approximately 3.0 ounces

HOCHIKI AMERICA CORPORATION
7051 VILLAGE DRIVE, SUITE 100
BUENA PARK, CA 90621-2268

DWG. # HA-06-103
(PG 1 OF 2, 01/24)
PART# 1700-10180

WIRING DIAGRAM FOR CLASS B (STYLE B):

THIS MODULE CAN BE WIRED
IN CLASS B (STYLE B)ONLY.

INITIATING DEVICE CIRCUIT
(IDC) ARE POWER LIMITED DRY
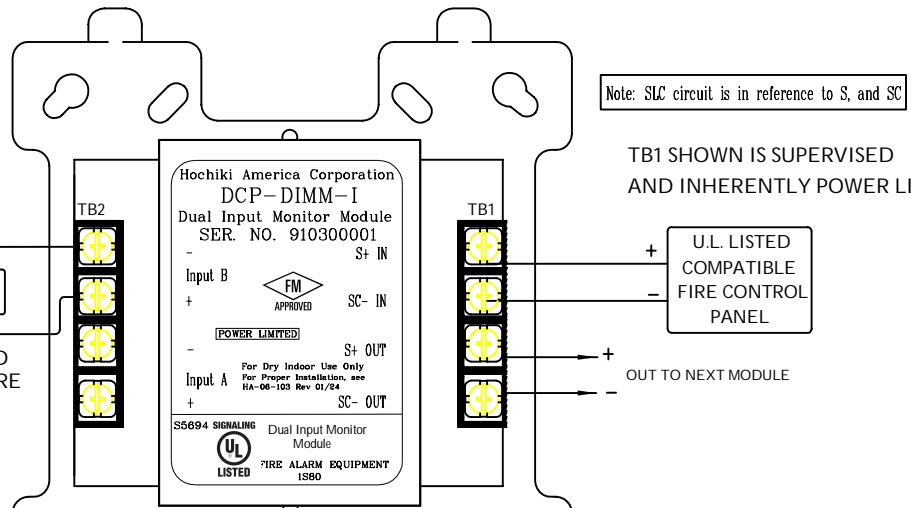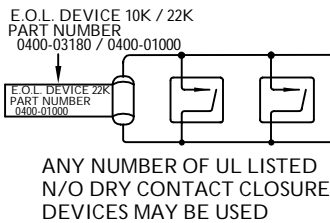CONTACT CONNECTION ONLY

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

TB1 SHOWN IS SUPERVISED
AND INHERENTLY POWER LIMITED.

E.O.L. DEVICE 10K / 22K
PART NUMBER
0400-03180 / 0400-01000

E.O.L. DEVICE 22K
PART NUMBER
0400-01000

ANY NUMBER OF UL LISTED
N/O DRY CONTACT CLOSURE
DEVICES MAY BE USED

TB2

Hochiki America Corporation
DCP−DIMM−I
Dual Input Monitor Module
SER. NO. 910300001

Input B
- S+ IN
+ SC- IN

FM APPROVED

POWER LIMITED

- S+ OUT

Input A
For Dry Indoor Use Only
For Proper Installation, see
HA-06-103 Rev 01/24
+ SC- OUT

S5694 SIGNALING   Dual Input Monitor Module

UL LISTED   FIRE ALARM EQUIPMENT
1S80

TB1

+ | U.L. LISTED
− | COMPATIBLE
FIRE CONTROL
PANEL

+
OUT TO NEXT MODULE
−

FIGURE 2.
TYPICAL WIRING
DCP-DIMM/ DCP-DIMM-I

CAUTION !
Install the modules in this instruction in
accordance with applicable NFPA
standards, local codes, and the authorities
having jurisdiction. Failure to follow these
instructions may result in failure of the
system to operate as intended.
Hochiki America is not responsible for
modules that have been improperly
installed, tested, or maintained.

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.

TABLE 1: WIRING LIMITATIONS

Maximum line impedance between input and initiating devices.
3.50Ω

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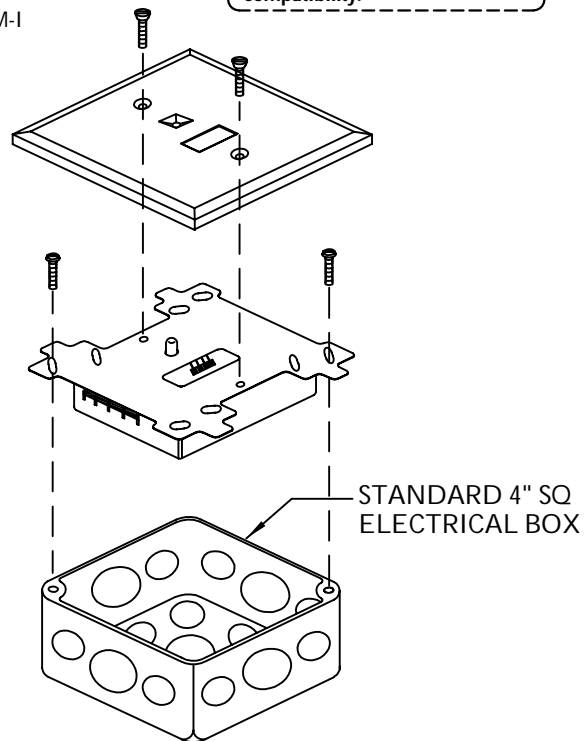connected under each terminal.
Maximum of 2 conductor per
terminal.

STANDARD 4" SQ
ELECTRICAL BOX

FIGURE 3. TYPICAL MOUNTING

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.