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GEMC-FW-SLC

FIRE SIGNALING LINE CIRCUIT MODULE

DATA SHEET

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/06/17

WI1889A 01/16

DESCRIPTION

The GEMC-FW-SLC *Signaling Line Circuit* Module is the hardwired interface between compatible NAPCO Fire SLC devices and the Gemini C-Series control panels. The 2-Wire UL Commercial Fire Listed SLC system requires a Gemini C-Series control panel and at least one of the below listed compatible SLC Fire devices in order to operate. These devices may be smoke detectors, heat detectors, NAC devices, single or dual Fire-initiating circuit-input devices, or other compatible devices that report zone status and supervision information to the GEMC-FW-SLC.

THE GEMC-FW-SLC module supports up to 126 Fire SLC devices. A maximum of two GEMC-FW-SLC modules may be used with any Gemini C-Series control panel for a maximum total of 252 Fire SLC zones. The GEMC-FW-SLC module is mounted inside the control panel metal housing and is connected to the control panel motherboard via the supplied connector. The GEMC-FW-SLC module polls each device, continually monitoring and updating the Fire status and conveying this information to the control panel. If there is no response from a Fire SLC device, a trouble will occur within 200 seconds.

IMPORTANT: *Only the NAPCO Firewolf SLC devices are compatible with the Gemini C-Series system.* ***These NAPCO Fire SLC devices may NOT be used on other systems due to incompatibilities with this proprietary communication protocol.***

VERY IMPORTANT: For ANY keypad programming, the SLC board MUST be enabled in PCD-Windows Quickloader by opening the **System Assignment** screen, ***RF-Receiver/SLC*** tab.

SPECIFICATIONS, GEMC-FW-SLC MODULE

Electrical Ratings

Input Power:

Power Requirements: 24VDC, 70mA (standby current) + device current.

Maximum Total Combined 24V Input Current: 475mA.

Output Power: 36V pk, 150mA maximum. The additional alarm current (5 LED's @ 8mA for 40mA) is automatically added to determine standby + alarm current.

Note: Refer to PCD-Windows Quickloader download software's calculation tools for 24V standby current calculation. GEMC-Series total combined 24V auxiliary standby current must be reduced by GEMC-FW-SLC input current.

Maximum Line Impedance: 50Ω

PHYSICAL

Dimensions W x D x H: 4.5" x 4" x 1"

AGENCY LISTINGS

UL864 9th Edition: Commercial Fire
UL985: Household Fire Warning System Units
NFPA 72 National Fire Alarm Code
Security Industry Association (SIA) False Alarm Reduction Standard CP-01
CSFM: California State Fire Marshall
NYCFD: NYC Fire Department

ORDERING INFORMATION

GEMC-FW-SLC: Addressable SLC Fire Module, supports up to 128 addressable SLC Fire devices. Connects to the GEMC control panel (2 maximum).