FIRE PHONE CARD

DESCRIPTION

The Fire Phone Card, P/N 10-2728, is the primary control component required to facilitate selective talk firefighter's telephone operation. It provides twenty (20) configurable switches that allow emergency response personnel to selectively connect remote fire phones to the emergency communication systems phone riser, which originates from the Digital Paging Module, P/N 10-2727. This connection allows two-way communication between the master fire phone located in the Fire Command Center (FCC) and the connected remote phone(s) strategically located throughout the facility. Each switch has a corresponding LED that when lit provides positive indication of the connected status of the fire phone. The card is equipped with an integral sounder that provides audible indication of an incoming phone call. By default, the last unused control switch on the fire phone control card (primary or supplemental) will act as an audible silence switch for the fire phone card. Connection to the host control panel's RS485 peripheral bus and regulated 24 VDC auxiliary power is required.

FEATURES

- Source of the fire phone control module addressable loop (Series 500)
- 20 configurable switches for fire phone selection
- Supports connection of up to four (4) Supplemental Fire Phone cards, P/N 10-2730
- LED display of connected fire phone calls
- Communication over host control panel's RS485 peripheral bus
- 24 VDC from host control panel or remote power supply
- Mounts to Fire Command Center (FCC) enclosure's dead-front door

APPLICATION

The Fire Phone Card, P/N 10-2728, must be mounted within the Fire Command Center (FCC) enclosure and is required on all systems that require selective talk fire phone operation. The card is the source of the fire phone system's Series 500 addressable loop, which supports the connection of up to ninety-nine (99) fire phone control modules, P/N 24-135. Each fire phone control module can be selectively connected to the firefighter's phone riser via phone card switch activation; however, the system can support 5 Fire Phones connected one time not including the Master Fire Phone. Each fire phone control module can be connected to a single phone jack or to multiple phone jacks serving a common zone or area.

When the number of addressable fire phone control modules connected to the Series 500 addressable loop exceeds twenty (20), a Supplemental Fire Phone Card, P/N 10-2730 must be installed for each additional group of twenty (20) modules added (maximum 99 modules). The supplemental fire phone card provides an additional twenty (20) configurable switches for firefighter's telephone selection. Up to four (4) supplemental fire phone cards can be connected to the Fire Phone Card via a ribbon cable connection, which distributes required power and control. When multiple fire phone cards are used, they must be installed in the same row on the enclosure dead front. This is required to facilitate ribbon cable connections between the cards. (Cable, P/N 10-2765, must be ordered separately)
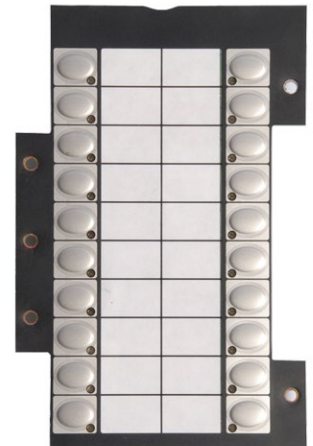
APPROVALS:

- UL - S3217
- FM
- CSFM - 7165-0900:0137
- City of New York - #6063

SPECIFICATIONS

Operating Voltage Range:	24 VDC* Regulated
Maximum Current:	Alarm = 75 mA (all LEDs on)
	Standby = 53 mA (all LEDs off)
Operating Temperature:	0 to 49° C (32 to 120° F), 93% RH
Terminal Blocks:	Accept 14 - 26 AWG
Wiring Connections:	All connections are supervised and power limited
RS485 Wiring:	4,000 ft. (1,219 m) to last device, 96 Ω maximum, Belden 9841 or equal
Card Dimensions:	3.75" (9.53 cm) W x 5.75" (14.6 cm) H
Compatibility:	CyberCat 254 and CyberCat 1016, firmware version 5.00 or higher. In order to properly mount the card inside the control panel enclosure, a deadfront enclosure must be used. Refer to the associated control panel manual for system enclosure options.
Series 500 Loop	For max line Impedance, refer to table below

Number of Modules	Maxium Wire Resistance
76-99	7Ω
51-75	10Ω
26-50	16Ω
1-25	31Ω

Note:
* Power for the card is provided via a separate power loop from the associated control panel or battery backed 24 VDC, regulated, power-limited, power supply listed for Fire Protective Signaling Use.

ORDERING INFORMATION

Fike P/N	Description
10-2728	Fire Phone Card
10-2730	Supplemental Fire Phone Card
24-135	Intelligent Fire Phone Module
10-2765	Ribbon Cable (connects up to 4 supplemental fire-phone cards)
02-12258	*6 inch Wiring Assembly (RS485 and 24 VDC)
02-12259	*12 inch Wiring Assembly (RS485 and 24 VDC)
02-12260	*30 inch Wiring Assembly (RS485 and 24 VDC)

* For easy installation of Fike's interface modules (P/N 10-2660, 10-2659, 10-2658, 10-2728)

OPERATION

The fire phone card allows you to manually connect remote fire phones to the voice evacuation system's fire phone bus. The card provides controls and indicators for up to twenty (20) fire phones. The function of the controls and indicators provided on the card are described as follows.

Incoming Call Initiation:	An incoming call signal is initiated when a firefighter plugs a portable handset into a remote phone jack. This causes the LED on the corresponding fire phone card to flash and the integral audible on the fire phone card to sound indicating the incoming call at the Fire Command Center. The firefighter will hear a ringing tone in the hand set until the call is connected at the Fire Command Center.
Connecting an Incoming Call:	Press the corresponding switch on the fire phone card to connect the incoming call to the fire phone bus. This causes the associated LED to illuminate steady and the integral audible on the fire phone card to silence.
Additional Incoming Calls:	The associated LEDs will flash and the integral audible on the fire phone card will resound. You can either choose to connect the incoming call to the fire phone bus as previously described, or you can choose not to connect them. The fire phone bus allows you to connect a maximum of five (5) remote phones to the phone riser at one time in a party-line configuration.
Silence Switch:	By default, the last unused switch on the fire phone card(s) is designated as a Silence switch. For example: If the last fire phone module device address used is 72; then switch 73 on the fire phone card will be defaulted to audible silence. When pressed, the switch will silence the integral audible on the fire phone card; however, the LED indicating the incoming call will continue to flash until connected.