

## Fiber Optic Converter Card (OCC)

Effective: March 2007  
**K-76-604**

### FEATURES

- *Dual-channel connection offers a redundant communications path*
- *Ideal for high security, explosive, flammable or corrosive environments*
- *62.5/125 multi-mode duplex fiber optic media*
- *UL Listed*
- *FM Approved*

### DESCRIPTION

The Fiber-Optic Converter Card (OCC) allows networked Aries Control Units to be interconnected using 62.5/125 multi-mode duplex fiber-optic media.

The main benefit of optical fiber is its exceptional low loss, allowing long distances between networked Control Units. Fiber optic cabling offers a wide range of benefits above the traditional copper wire, which include:

- Immune to virtually all types of electromagnetic interference, including lightning.
- Safe for use near high voltage electrical equipment and power lines, or between areas with different earth potentials.
- Ideal for high security environments because fiber optic cable emits no electrical radiation, making it very difficult to tap.
- Requires low maintenance because it does not corrode and is unaffected by chemicals. It can be buried directly in most kinds of soil or exposed to most corrosive atmospheres in chemical plants without significant concern.
- No possibility of spark from a broken fiber, so there is no fire hazard or danger of electrical shock.
- Lightweight and flexible.

### PHYSICAL

One OCC is required to terminate each end of a fiber-optic communications-channel(s) segment. Each OCC connects to a Network Interface Card (NIC) which passes communications to the Control Units. The ARIES networking structure supports a mixture of fiber-optic and twisted-wire interconnections between networked Control Units. (For additional information, refer to Installation Manual 06-236530-001).



## SPECIFICATIONS

<b>Part Number:</b>	76-600000-006	<b>Fiber Optic Connections:</b>	Type 'ST'
<b>Weight:</b>	3.3 lb. / 1.5 kg	<b>Data Ports:</b>	EIA/TIA-485
<b>Finish:</b>	Red (Color C21136 of Fed Std 595B)	<b>Baud Rate:</b>	9600 Baud
<b>Input Voltage:</b>	24 Vdc Nominal, 18 Vdc Min., 28 Vdc Max.	<b>Optical Link Distance:</b>	5280 ft. (with no more than 4 dB/km cable attenuation)
	<b>Note:</b> Must be connected to Control Panel AUX 24 Vdc		
<b>Input Current:</b>	200 mA max.	<b>Temperature Range:</b>	32°F - 122°F (0°C - 50°C)
<b>Electrical Connections:</b>	UL Recognized Terminal Blocks for wire size 26 AWG - 12 AWG	<b>Humidity Range:</b>	0% - 93% RH, non-condensing

## ORDERING INFORMATION

Part Number	Description
76-600000-006	Fiber Optic Converter Card with Enclosure

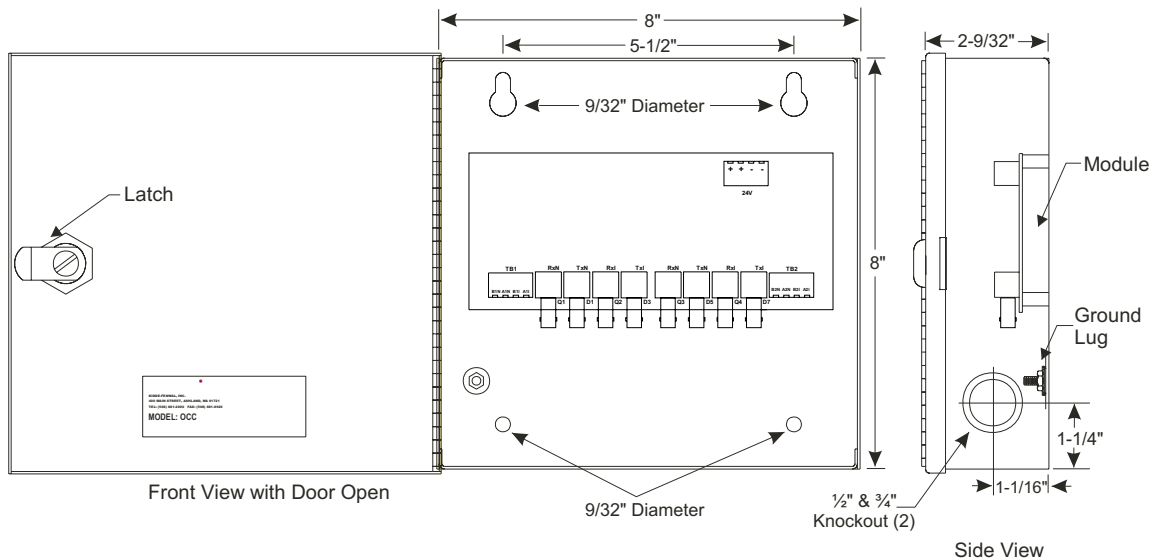


Figure 1. Fiber-Optic Converter Card in Enclosure

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