comnet
Communication Networks

Eight Channel Contact Closure over Ethernet

CNFE8(X)COE

APPEARANCE

8 CC → TX COPPER / FX OPTICAL

DESCRIPTION

The ComNet™ CNFE8(X)COE transmits eight contact closures over an Ethernet network. It is available with a 10/100TX RJ45 Ethernet connector and an SFP fiber optic interface. These units can be one-to-one mapped over Ethernet or controlled via a PC. Included is a driver that allows the CoE to read or write contact information from a PC based application. A software utility allows customers to search for this device that is installed on the network. The CNFE8TCOE transmitter and CNFE8RCOE receiver support Windows® Discovery. Distances depend on which SFP (Small Form Pluggable) module is used. The CNFE8(X)COE is environmentally hardened to operate in extreme temperatures. LED indicators are provided for confirming operating status. Packaged in the ComNet ComFit housing, these units may be either wall, rack, or DIN-rail mounted with the addition of the ComNet DINBKT1 adaptor plate.

APPLICATIONS

› Access Control Systems
› Building Automation and Environmental Control Systems
› Computer/Data Equipment
› Fire and Alarm Systems
› Traffic Signal Control Equipment

FEATURES

› **NTCIP compatible**
› **Remote network configuration**
› **Saved to a web server based configuration, requires no electrical or optical adjustments**
› **Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.**
› **Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.**
› **Power and Port status LED indicators**
› **Automatic resettable solid-state current limiters**
› **Hot-swappable rack modules**
› **Interchangeable between stand-alone or rack mount use – ComFit**
› **Lifetime Warranty**

SFP: Small Form-factor Pluggable Module

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SPECIFICATIONS

Contact

Response Time:	25 msec typical, network dependent
Input/Output Channels:	8
Inputs:	Dry Contact Input
Outputs:	0 – 250V, 190mA (AC or DC)

Ethernet

10/100TX, 100FX

Number Of Fibers

1 or 2, SFP dependent

Fiber Connectors*

Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules.

Connectors

Power:	Terminal Block
Optical:	LC or SC (SFP dependent)
Data:	RJ45
Contact Closure:	Terminal Block

LED Indicators

- Power
- Link
- Com
- Contact Closure

Electrical & Mechanical

Power:	
Surface Mount:	9–12 VDC @ 350 mA
Rack:	From Rack
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm) (L×W×H)	6.1 × 5.3 × 1.1 in. (15.5 × 13.5 × 2.8 cm)
Shipping Weight:	<1 lb./0.45 kg

Environmental

MTBF:	>100,000 hours
Operating Temp:	-40˚ C to +75˚ C
Storage Temp:	-40˚ C to +85˚ C
Relative Humidity:	0% to 95% (non-condensing)†

AGENCY COMPLIANCE

MADE IN THE USA

* Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652

† May be extended to condensation conditions

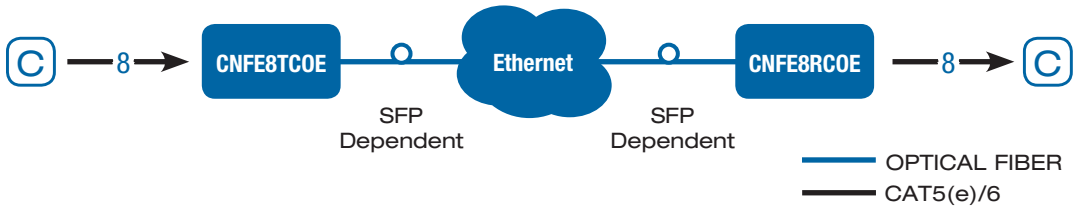
‡ Distance may be limited by optical dispersion.

ORDERING INFORMATION

Part Number	Description	Fibers Required	Optical Power Budget	Maximum Distance‡	# Rack Slots
CNFE8TCOE	Contact to Ethernet Transmitter	SFP Dependent	SFP Dependent	SFP Dependent	1
CNFE8RCOE	Contact to Ethernet Receiver				
Accessories Options	9 Volt DC Plug-in Power Supply, 90–264 VAC, 50/60 Hz (Included)				
	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)				
	DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)				

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATION



comnet Communication Networks

3 CORPORATE DRIVE | DANBURY, CT 06810 | USA
T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET

8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE
T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET

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