



Read Me First

ControlNet Ex System Certificate

Installing the ControlNet Ex System



Dependent on the usage and planned application of each unit of the ControlNet Ex™ system, all relevant standards (laws and directives) must be met.

During the installation and interconnection of the units, you must adhere to all points of the system certificate. The system designer of the end-user is responsible for the correctness of the system installation and the interconnection of the units.

A label must be posted near the main components of the system, stating:

Attention: Avoid electrostatic charge.

A label with this system marking must be attached near the main components of the system. If the system is installed in a cabinet, this label must be fixed inside the cabinet.

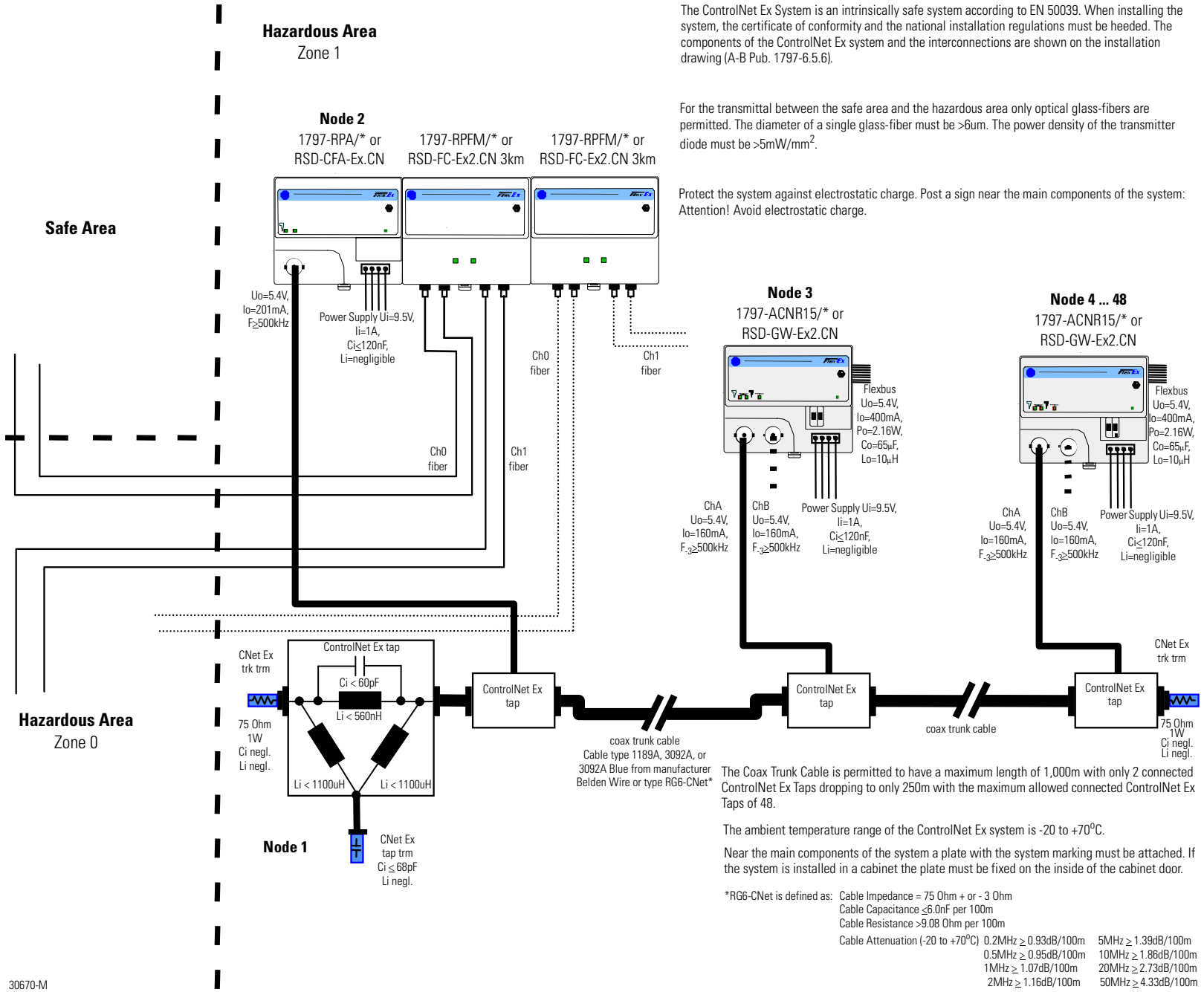
1 Allen-Bradley Dr. Mayfield Hts., OH USA	
ControlNet Ex System	
	DMT 99 ATEX E 065 X II (1) 2G SYST EEx ia/ib IIB/C T4
 0102	
-20°C <= Ambient Temperature <= +70°C	
Attention! Avoid electrostatic charging!	

Allen-Bradley Drives

The ControlNet Ex System is an intrinsically safe system according to EN 50039. When installing the system, the certificate of conformity and the national installation regulations must be heeded. The components of the ControlNet Ex system and the interconnections are shown on the installation drawing (A-B Pub. 1797-6.5.6).

For the transmittal between the safe area and the hazardous area only optical glass-fibers are permitted. The diameter of a single glass-fiber must be $>6\mu\text{m}$. The power density of the transmitter diode must be $>5\text{mW}/\text{mm}^2$.

Protect the system against electrostatic charge. Post a sign near the main components of the system: Attention! Avoid electrostatic charge.



The Coax Trunk Cable is permitted to have a maximum length of 1,000m with only 2 connected ControlNet Ex Taps dropping to only 250m with the maximum allowed connected ControlNet Ex Taps of 48.

The ambient temperature range of the ControlNet Ex system is -20 to $+70^{\circ}\text{C}$.

Near the main components of the system a plate with the system marking must be attached. If the system is installed in a cabinet the plate must be fixed on the inside of the cabinet door.

*RG6-CNet is defined as:

Cable Impedance = 75 Ohm + or - 3 Ohm	
Cable Capacitance $\leq 6.0\text{nF}$ per 100m	
Cable Resistance > 9.08 Ohm per 100m	
Cable Attenuation (-20 to $+70^{\circ}\text{C}$)	0.2MHz $\geq 0.93\text{dB}/100\text{m}$ 5MHz $\geq 1.39\text{dB}/100\text{m}$
	0.5MHz $\geq 0.95\text{dB}/100\text{m}$ 10MHz $\geq 1.86\text{dB}/100\text{m}$
	1MHz $\geq 1.07\text{dB}/100\text{m}$ 20MHz $\geq 2.73\text{dB}/100\text{m}$
	2MHz $\geq 1.16\text{dB}/100\text{m}$ 50MHz $\geq 4.33\text{dB}/100\text{m}$

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