

Features

- Converts the ControlNet coaxial signals into TTL signals for the ControlNet LWL coupler
- Installation in the safe area
- Transfer rate 5 MBits/s
- Connection of up to two LWL couplers, each with two bi-directional LWL transfer routes
- 1 power supply channel for 1 copper/fiber optic adapter

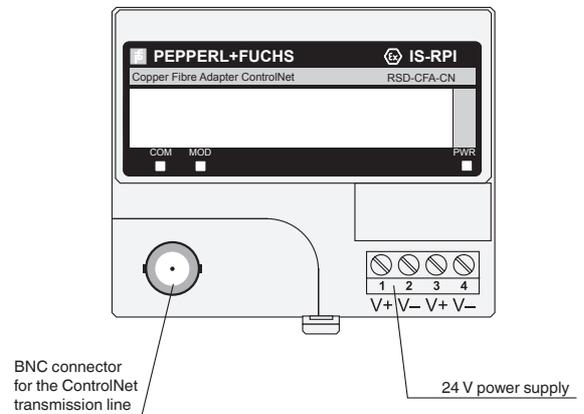
Function

This component is the actual control center of the system. On one side it has a coaxial connection for connecting to the ControlNet. On the other side it converts this bus signal into TTL signals. These signals in turn control the LWL (fiber optic cable) coupler.

This module incorporates all the intelligence required to generate two unidirectional TTL signals from the bidirectional coaxial bus signal. Up to two LWL coupler modules can be connected to the module, each of which has two bi-directional channels.

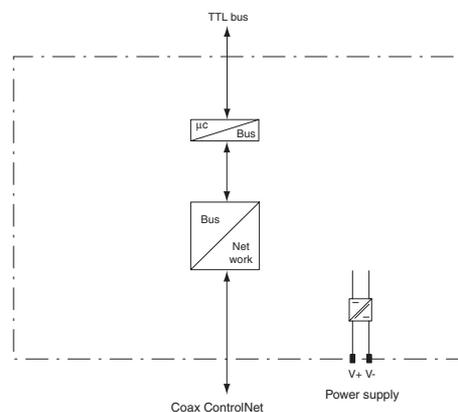
Assembly

Front View



CE

Connection



Supply	
Connection	terminals V+, V-
Rated voltage	18 ... 36 V DC
Ripple	≤ 10
Rated current	230 ... 400 mA
Power loss	8 W
Power consumption	8.5 W
Internal bus	
Connection	TTL bus
Interface	manufacturer specific bus
Max. number of fiber optic couplers	2
External bus	
Connection	BNC connection
Interface	ControlNet international version 1.5, intrinsically safe
Transfer rate	5 MBit/s
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Standard conformity	
Protection degree	IEC 60529
Climatic conditions	IEC 60721
Ambient conditions	
Classification	3K3
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature	-20 ... 100 °C (-4 ... 212 °F)
Relative humidity	95 % non-condensing
Shock resistance	15 g peak, 11 ms period
Vibration resistance	2 g , 10 ... 500 Hz according to IEC 60068-2-6
Mechanical specifications	
Connection type	terminals, BNC connection
Core cross-section	≤ 2.5 mm ²
Protection degree	IP20, for on-site installation a separate housing is required with a minimum of IP54
Mass	approx. 230 g
Mounting	DIN rail mounting

Electrical connection

Terminal assignment

