

Instructions RSD-CFA-Ex.CN and RSD-FC-Ex2.CN.3km

When installing, commissioning, operating and maintaining devices or device components of the IS-RPI system as an intrinsically safe electrical apparatus in potentially explosive atmospheres, you must heed the EC-type examination certificate and the applicable national and local construction, installation and operating regulations.

The Copper/Fiber-Adapter RSD-CFA-Ex.CN works in conjunction with the Fiber-Coupler RSD-FC-Ex2.CN.3km.

Mounting

The RSD-CFA-Ex.CN and the RSD-FC-Ex2.CN.3km do not need a separate Terminal Base. The Copper/Fiber-Adapter provides the coupling to the ControlNet coax cable, the Fiber-Coupler realizes the connection to the fiber optic cable. Both devices are connected via a plug, which is located at the right hand side of the RSD-CFA-Ex.CN and the left hand side of the RSD-FC-Ex2.CN.3km. Before both devices are mounted the cover plug on both units must be removed. Only remove the cover plug when mounting. The mounting and the connection of the devices is shown in figure 1.

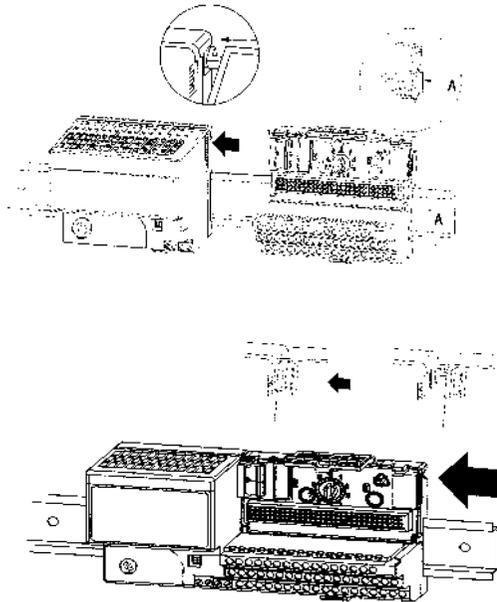


Figure 1

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A maximum of 2 RSD-FC-Ex2.CN.3km is allowed to be connected to one RSD-CFA-Ex.CN (see figure 2).

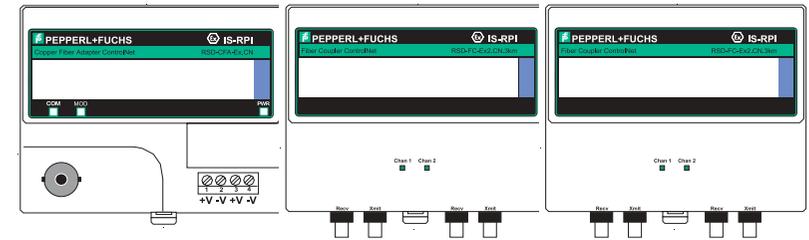


Figure 2

Label

The product label is located on the right hand side of the RSD-CFA-Ex.CN and the RSD-FC-Ex2.CN.3km.



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Power Supply

Only the RSD-CFA-Ex.CN has to be connected to an intrinsically safe power supply (e. g. RSD2-PSD2-Ex4...). The maximum intrinsically safe values of the Copper/Fiber-Adapter must not be exceeded. The terminals V+ and V- are the connectors for the power supply. The Fiber-Coupler is supplied by the Copper/Fiber-Adapter.

Connectors of the RSD-CFA-Ex.CN

The RSD-CFA-Ex.CN has to be connected to the ControlNet transmission cable. It has also to be connected to intrinsically safe power supply. The connectors are shown in figure 3.

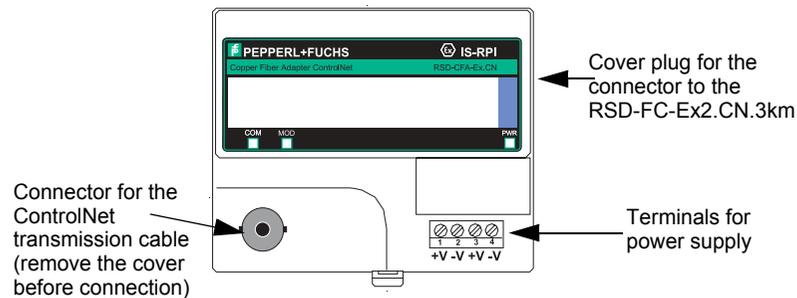


Figure 3

Connectors of the RSD-FC-Ex2.CN.3km

The RSD-FC-Ex2.CN.3km will be connected on the left hand side to the RSD-CFA-Ex.CN or, if it is the second coupler, to the previous coupler. If the coupler is the second on the line, the cover plug on the right hand side must not be removed. The RSD-FC-Ex2.CN.3km is a 2 channel coupler and has integrated a separate transmitter and receiver for each channel.

Zone 22

When the Copper/Fiber-Adapter RSD-CFA-Ex.CN and the Fiber-Coupler RSD-FC-Ex2.CN.3km is installed in Zone 22 the following cabinets have to be used:

- IVK-ISRPI-V16LC
- IVK-ISRPI-V8HYW
- IVK-ISRPI-V8LC

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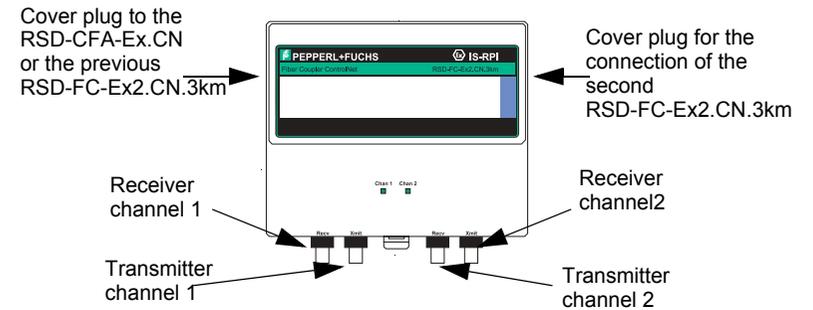


Figure 4

Installation

The RSD-CFA-Ex.CN and the RSD-FC-Ex2.CN.3km must not be exposed to the environment. Provide a separate enclosure with a protection factor of at least IP54. These modules must be installed in such a way that protection factor IP20 is guaranteed.

Safe area mounting

The RSD-CFA-Ex.CN and the RSD-FC-Ex2.CN.3km cannot be used in an intrinsically safe environment after they have been exposed to non-intrinsically safe signals.

Repair

These modules are not field-repairable. Any attempt to open these modules will void the warranty and IS certification. If repair is necessary, return these modules to the factory.

ESD

Protect the system against electrostatic charge. Post a sign near these modules: "Attention! Avoid electrostatic charge".

Ambient Temperature

The ambient temperature of these modules (-20 °C...+70 °C) has to be considered, especially when the modules are mounted in a cabinet where the internal temperature is increased by the power dissipation of the modules itself.

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Installation drawing: ControlNet Ex System

