



ICS 25-65 Servo
Operated Valve



Danfoss EXD 316 Electronic Controller Installation Guide

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Danfoss EXD 316 Electronic Controller

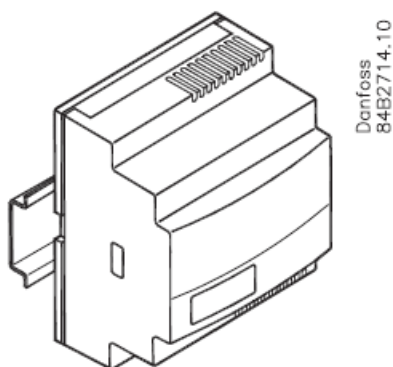


Specifications

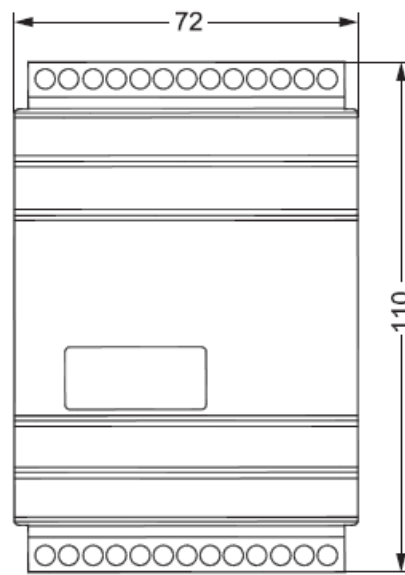
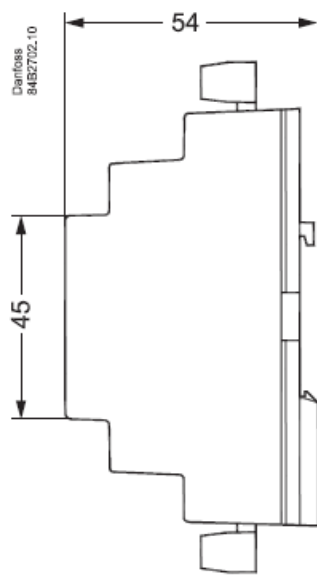
- Product Name: Electronic controller, CANBUS version Type EXD 316
- Identification: UK – 084B8042, DK – 084R8031
- Application: Various applications including PLC, I/V, V
- Features: Battery back up, electric stepper motor valve control, data communication capabilities
- Power Supply: Max 24 V, 1 A resistive Class II

Installation Guide

Identification

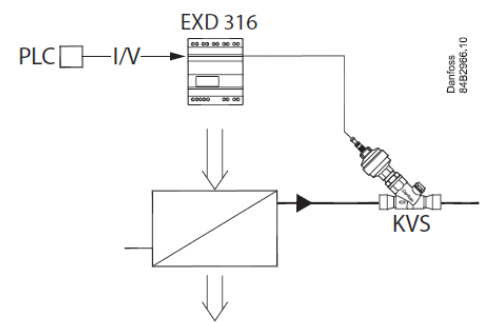
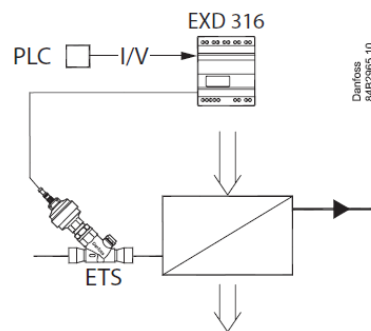
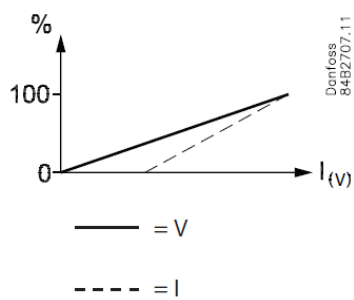


Dimensions [mm] / Mål [mm]

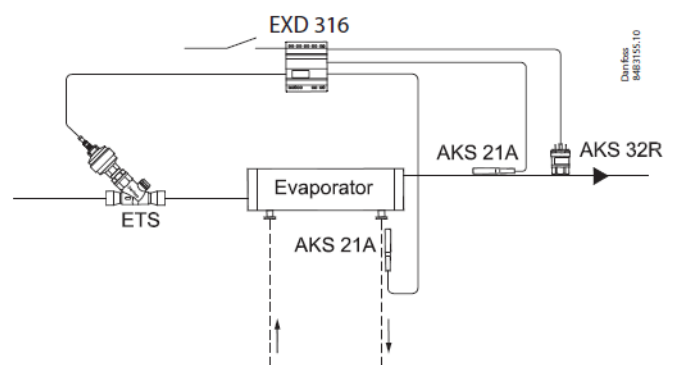
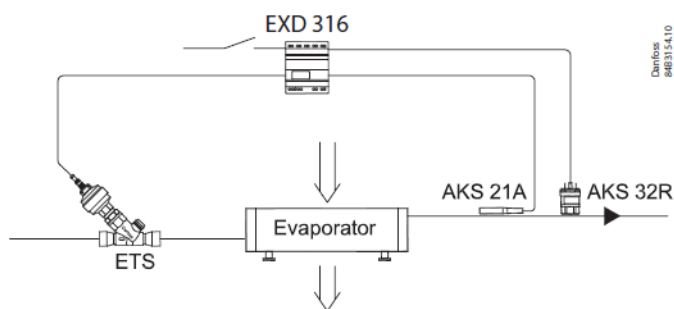


Application 1

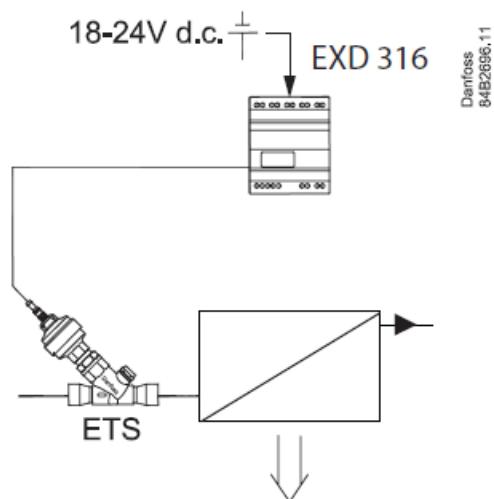
Index 5100_{HEX} SUB 0B_{HEX}



Application 2



Battery back up

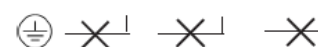


It is recommended to use a dedicated transformer.

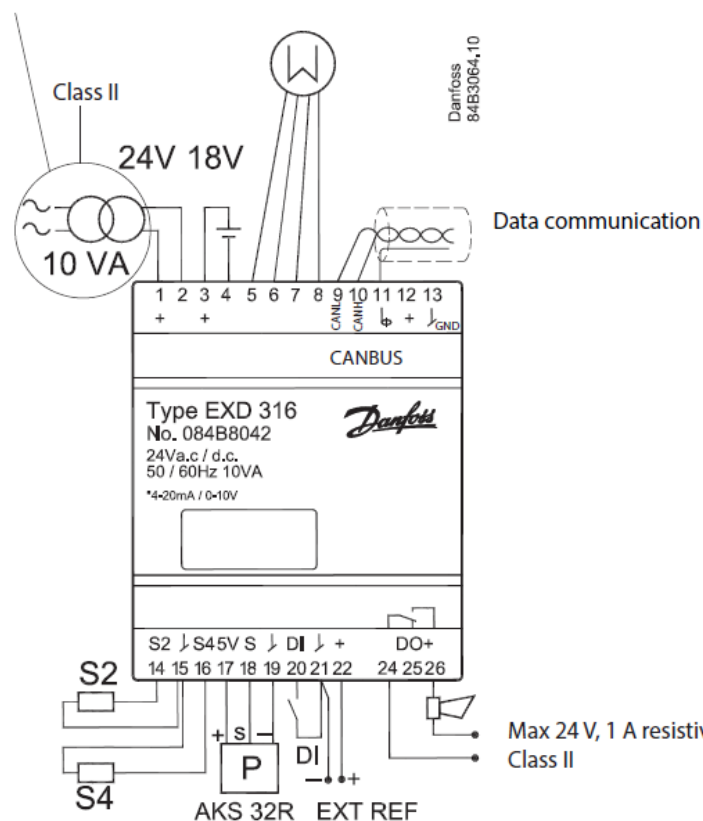
Electric stepper motor valve



1,2 3,4 21,22



Connection to earth will destroy the controller



Valve connection

ETS 6		
Orange	Orange	5
Yellow	Gul	6
Red	Rød	7
Black	Sort	8

ETS / KVS		
White	Hvid	5
Black	Sort	6
Red	Rød	7
Green	Grøn	8

Connections

Necessary connections

Terminals:

- Supply voltage 24 V a.c. / d.c.
- 3-4 Battery (the voltage will close the ETS valve if the controller loses its supply voltage. The battery voltage must be kept disconnected from terminals 1 and 2.
- 5-8 Supply to step motor.

- 9-13 Operation via data communication from a MCX controller.
- 20-21 Switch function for start/stop of regulation. If a switch is not connected, terminals 20 and 21 must be shortcircuited.

Application dependent connections

Superheat control

- 14-15 Pt 1000 sensor at evaporator outlet (S2).
- 15-16 Pt 1000 sensor for measuring air temperature (S4).
- 17-19 Pressure transmitter type AKS 32R (the signal can not be shared with other controllers). Control of the valves opening degree with analog signal
- 21-22 Current signal or voltage signal from other regulation (Ext.Ref.)
- 24-26 Alarm relay

There is connection between 24 and 26 in alarm situations. When the controller is there is connection between 24 and 25.

The Product contains electrical components

And may not be disposed together with domestic waste.

Equipment must be separate collected with Electrical and Electronic waste. According to Local and currently valid legislation.

FAQ

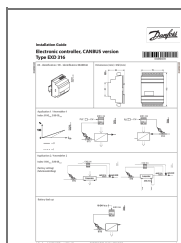
- **Q: Can the product be disposed of with domestic waste?**

A: No, the product contains electrical components and should be separately collected with electronic waste in accordance with local legislation.

- **Q: What is the maximum power supply voltage supported?**

A: The product supports a maximum of 24 V, 1 A resistive Class II power supply.

Documents / Resources



[Danfoss EXD 316 Electronic Controller \[pdf\] Installation Guide](#)
EXD 316, 84B3154.10, 84B3155.10, EXD 316 Electronic Controller, Electronic Controller, Controller

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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