



Danfoss NovoCon S High Accuracy Actuator User Guide

[Home](#) » [Danfoss](#) » Danfoss NovoCon S High Accuracy Actuator User Guide 

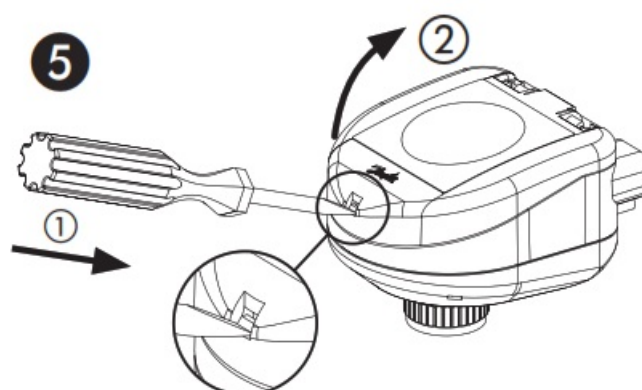
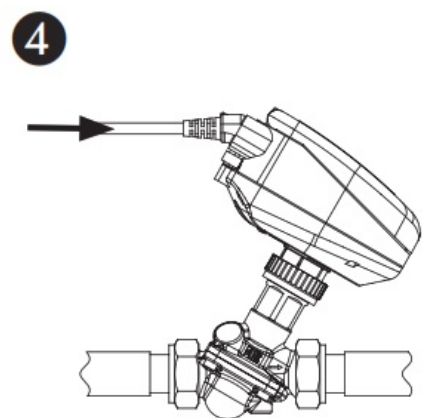
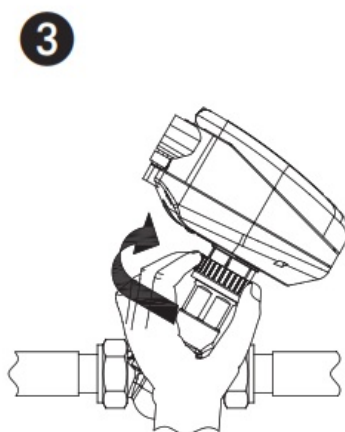
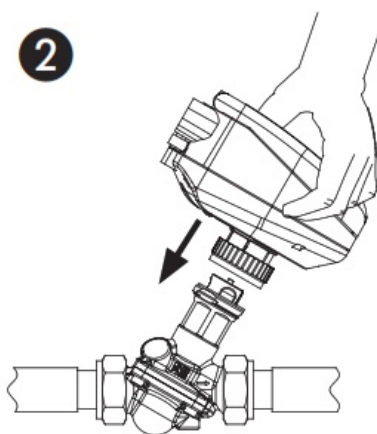
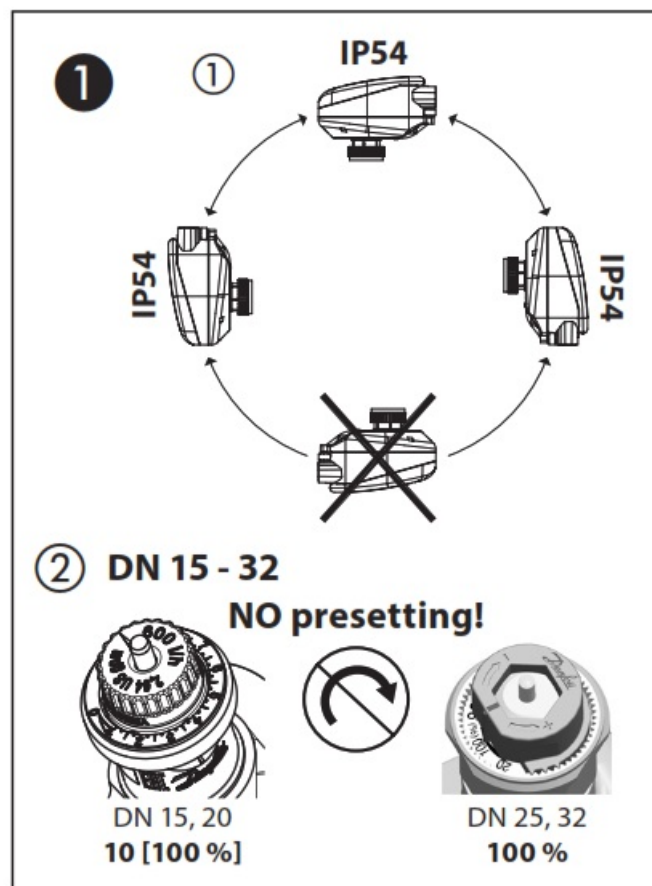


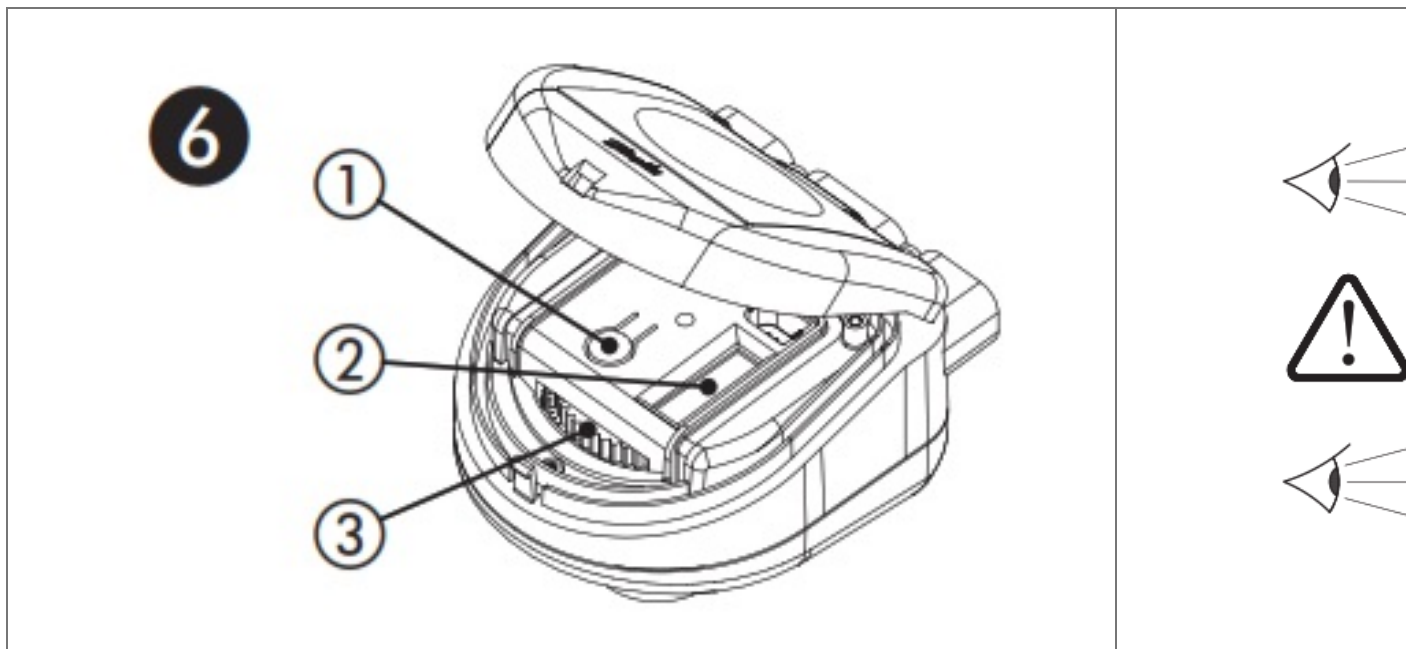
ENGINEERING
TOMORROW
NovoCon® S / 73690900
Operating Guide

Contents

- [1 NovoCon® S – High Accuracy Actuator](#)
- [2 NovoCon® digital cable](#)
- [3 NovoCon® analog cable](#)
- [4 Safety Note](#)
- [5 Firmware update](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

NovoCon® S – High Accuracy Actuator

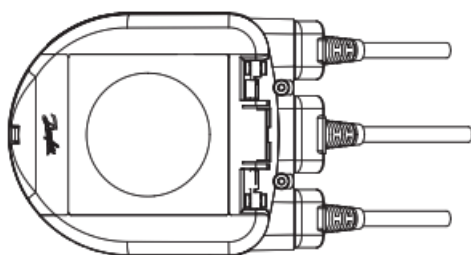




Manuel Calibration: Press button ① until two LEDs are turned on, and then release again. DIP switch: ② Manual override: Adjust wheel ③



The common ground shall be used for all devices on the same network.

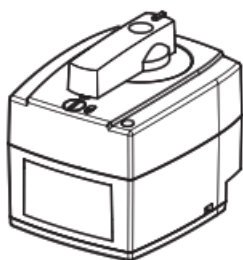
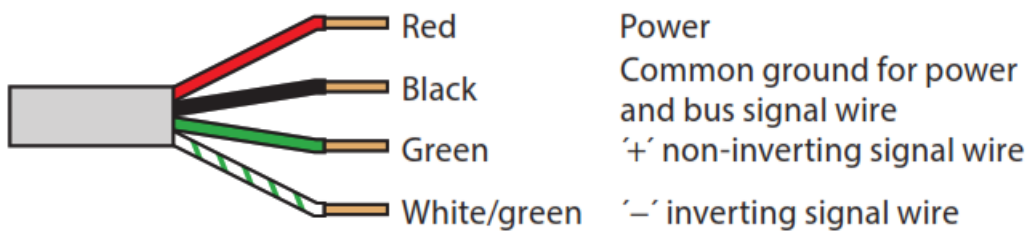


Digital port

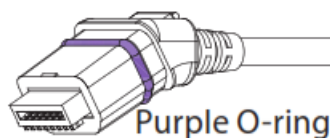
Port for CO6 actuator or Energy cable, I/O cable, analog cable or voltage booster.

Digital port

NovoCon® digital cable



**Actuator NovoCon®
ChangeOver⁶**



Purple O-ring

**Actuator NovoCon®
ChangeOver⁶ Energy**

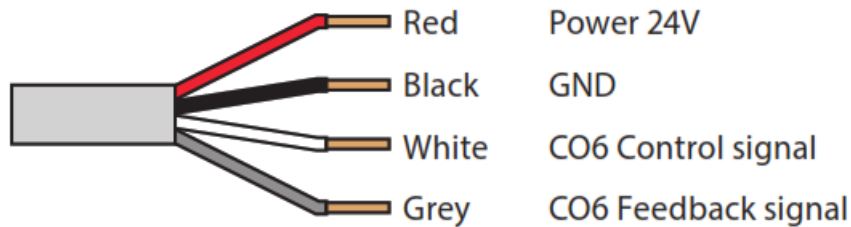


Blue O-ring

NovoCon® analog cable



Actuator NovoCon® ChangeOver⁶ Flexible



NovoCon® Energy cable

- PT1000 surface sensors

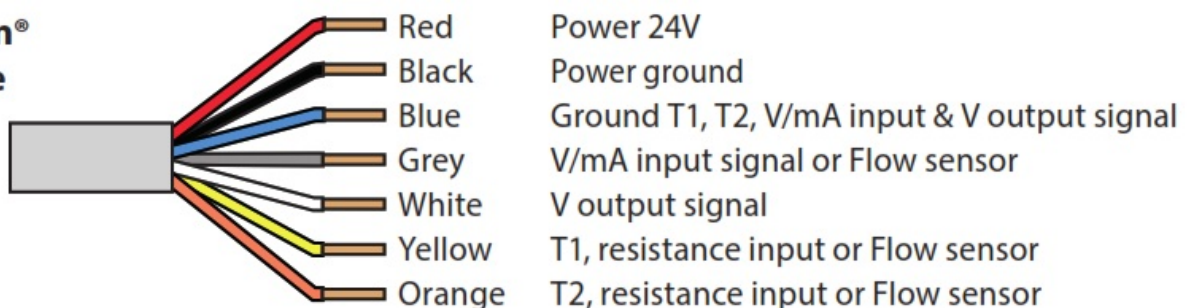


NovoCon® Energy cable

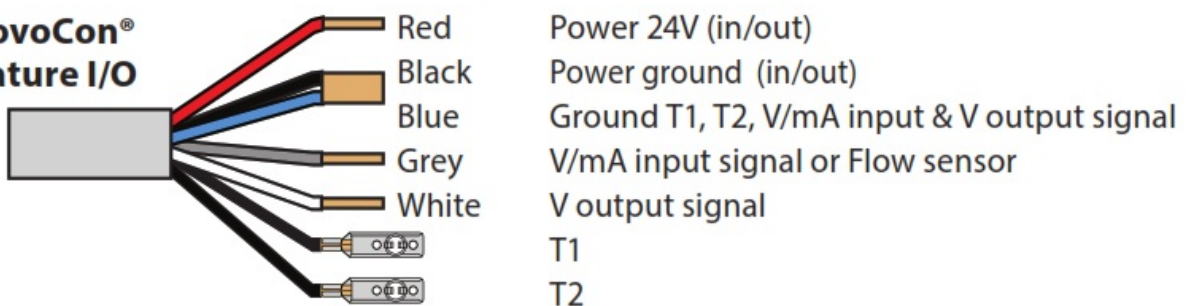
- PT1000 immersed sensors



NovoCon® I/O cable



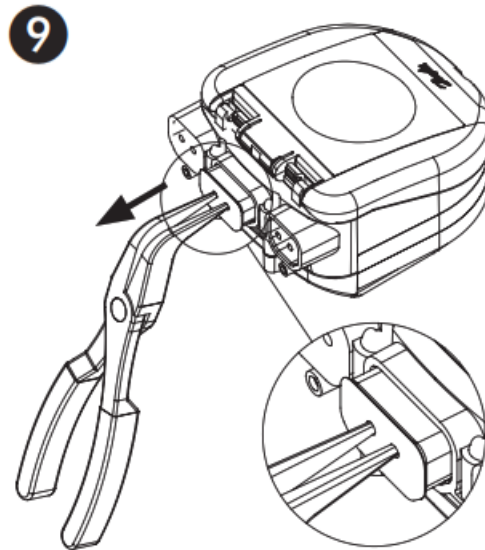
Cable NovoCon® Temperature I/O



The serial number and QR code can be removed from the NovoCon® S label and added to the installation drawing.



Device Object
Instance Number



10

DIP Switch



DIP Switches 1 to 7 is used to assign the MAC address manually.

The Default MAC address assignment method is Auto MAC addressing for BACnet MS/TP and DIP Switches for Modbus RTU.

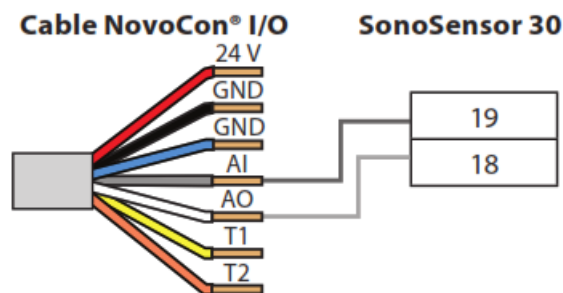
For termination of the last unit on the field bus, turn DIP Switch 8 ON.

Dip switch 9 is not used.

Dip switch 10 is used to select between BACnet MS/TP (OFF=Default) and Modbus RTU (ON).

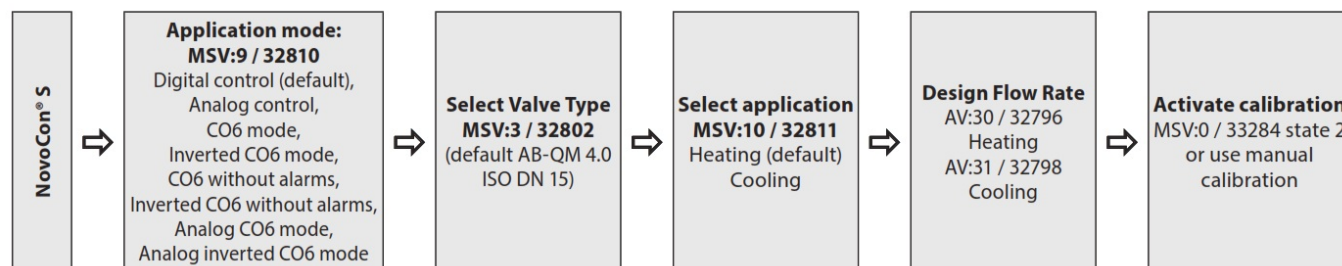
When the protocol is changed on DIP Switch 10, a power cycle is required.

Optional step (connecting flow sensor)



Terminal N°	Description
18	Volume pulse output (+)
19	Ground (-)

Initial configuration



Safety Note



To avoid injury and damage to persons and devices, it is absolutely necessary these instructions are carefully read and observed prior to assembly and commissioning. Necessary assembly, start-up, and maintenance work must be performed only by qualified, trained, and authorized personnel. Switch off the power line before wiring the actuator.



If the NovoCon® S network is supplied with two or more AC power boosters, caution must be observed when disconnecting one of the transformers from the high voltage power line. As the NovoCons are connected in a daisy chain, there may be high voltage on the primary side of the disconnected power supply. Disconnect always both the primary and secondary sides of the transformer.



Connect via safety isolating transformer. Galvanic separations shall be provided for segments crossing buildings.

Firmware update

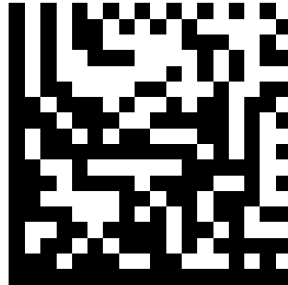
We recommend validating the firmware version before installation. The latest firmware can be downloaded at www.novocon.com by selecting the tab: Support files.

Part Name	Hazardous Substances Table					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Union nut	X	O	O	O	O	O
O: Indicates that this hazardous substance contained in all of the homogeneous material for this part is below the limit requirement in GB/T 26572;						
X: Indicates that this hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirements in GB/T 26572						

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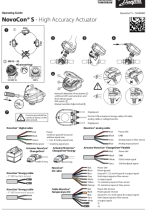
Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity, or any other technical data in product manuals, catalogs descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogs, brochures, videos, and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to the form, fit, or function of the product.

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Documents / Resources

	<p>Danfoss NovoCon S High Accuracy Actuator [pdf] User Guide NovoCon S High Accuracy Actuator, NovoCon S, High Accuracy Actuator</p>
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References

- [NovoCon® Digital actuators | Danfoss](#)