



Danfoss DST X510 Rotary Sensor With Shaft Installation Guide

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Danfoss DST X510 Rotary Sensor With Shaft



ROTATION DIRECTION

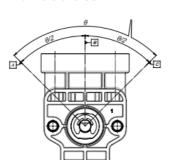
AMP VERSION

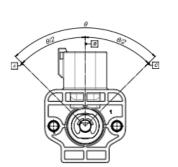
DEUTSCH VERSION

The output increases

for versions CW

The output increases for versions CCW



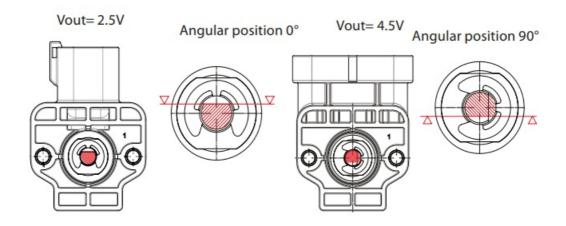


Ref	CW Output	CCW Output
Α	0.5Vdc Output	4.5Vdc Output
В	Zero angular position of 0 °	Zero angular position of 0 °
С	4.5Vdc Output	0.5Vdc Output

Zero angular position of 0 °

Ex: 098G1000

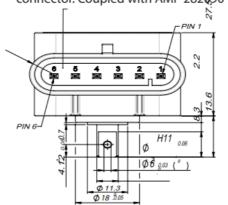
SINGLE- ± 90°- supply 7 – 36 V – output 0.5..4.5V – clockwise CW



ELECTRICAL CONNECTIONS

AMP VERSION

AMP Superseal 6-pole 282108-1 connector. Coupled with AMP 282090-1



CONNECTIONS

- 1. GROUND 1
- 2. + SUPPLY 1
- 3. OUTPUT 1
- 4. GROUND 2
- 5. + SUPPLY 2
- 6. OUTPUT 2

CAN CONNECTIONS

- 1. OV (GND)
- 2. +Vs (+9 ... +36 Vdc)
- 3. NC
- 4. NC
- 5. CAN-L
- 6. CAN-H

DEUTSCH VERSION

DEUTSCH 6 pole DT04-6P Connector Coupled with connector DEUTSCH DT06-6S

- 1. GROUND 1
- 2. + SUPPLY 1
- 3. OUTPUT 1
- 4. GROUND 2
- 5. + SUPPLY 2
- 6. OUTPUT 2

CAN CONNECTIONS

- 1. OV (GND)
- 2. +Vs (+9 ... +36 Vdc)
- 3. NC
- 4. NC
- 5. CAN-L
- 6. CAN-H

To ensure the degree of protection IP68, the connector must be coupled with a DEUTSCH DT06-6S female connector.

LOAD CONDITIONS

- Output: +0.5 Vdc...+4.5 Vdc with +5 Vdc power supply: apply load resistance >10 kΩ
- Output: +0.5 VDC...+4.5 VDC with +5 VDC power supply: apply load resistance >10 kΩ
- Outputs: +4...20 mA with < + 15..36Vdc power supply: maximum allowed load resistance is 200Ω Outputs +4...20 mA with > + 15..36Vdc
- power supply: maximum allowed load resistance is 500Ω

Danfoss A/S, with the "CE" mark, is manufactured according to the Community Directives and the related

National Legislation of conception

- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)
- 2014/30/EU Electromagnetic Compatibility (EMC)
- 2001/95/EC General product safety

MOUNTING

- Mount the sensor using M4 screws in nonmagnetic stainless steel: eg AISI 316 or brass (not included).
- The maximum torque amounts to 2.5Nm.

Frequently Asked Questions

Q: What is the maximum torque for mounting the sensor?

A: The maximum torque for mounting the sensor is 2.5Nm.

Q: What is the output range of the sensor?

A: The sensor has an output range from +0.5 Vdc to +4.5 Vdc.

Q: How should I connect the sensor electrically?

A: Follow the specified pin configurations for either the AMP Version or the DEUTSCH Version as mentioned in the user manual.

Documents / Resources



<u>Danfoss DST X510 Rotary Sensor With Shaft</u> [pdf] Installation Guide DST X510 Rotary Sensor With Shaft, DST X510, Rotary Sensor With Shaft, With Shaft

References

User Manual

Manuals+, Privacy Policy

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