



## Danfoss E-MOPI-TI003-E Heavy Duty Series Piston Motors Speed Sensor Kit Installation Guide

[Home](#) » [Danfoss](#) » Danfoss E-MOPI-TI003-E Heavy Duty Series Piston Motors Speed Sensor Kit Installation Guide 



**Danfoss® Heavy Duty Series Piston Motors**  
**109823-000**  
**Speed Sensor**  
**AN450457990355en-000101**  
**E-MOPI-TI003-E**  
**Supersedes 4-416**  
**Installation Information**

### Contents

- [1 E-MOPI-TI003-E Heavy Duty Series Piston Motors Speed Sensor Kit](#)
- [2 Documents / Resources](#)
  - [2.1 References](#)
- [3 Related Posts](#)

## E-MOPI-TI003-E Heavy Duty Series Piston Motors Speed Sensor Kit



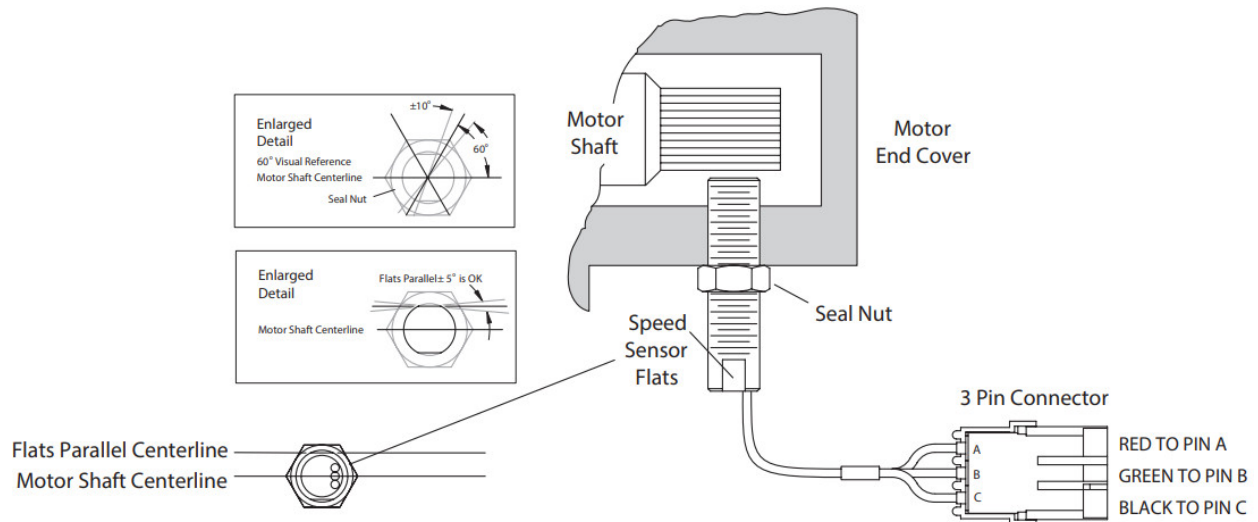
### CAUTION

Exceeding the specified amount of torque may permanently damage this sensor. Read installation instructions before installing the sensor. This digital speed sensor is used to monitor the speed of an Danfoss Heavy Duty Series piston motor.

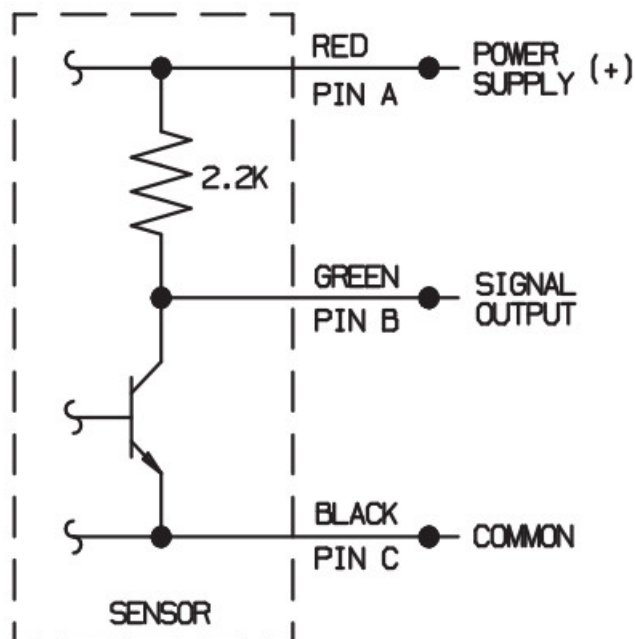
1. Make sure the hydraulic power is turned off and the motor can not rotate before proceeding.

2. Screw the digital speed sensor CW into the motor's end cover until the end just touches the shaft.
3. Unscrew the sensor CCW  $60 \pm 10^\circ$  to provide running clearance. Note: The angle between each of the flat wrenching surfaces on the nut is  $60^\circ$ . These flats can be used to estimate the backoff distance of CCW rotation.
4. Continue to unscrew the sensor CCW until the flats on the sensor are parallel with the motor shaft (see drawing below).
5. Maintain the sensor position and tighten the seal nut to a torque of  $13,6 \pm 1,4 \text{ Nm}$  [ $120 \pm 12 \text{ lb-in}$ ].
6. If sensor flats are not parallel with motor shaft; loosen seal nut, realign sensor and retorque to value specified in step 5.

**Important Note:** More torque than the specified amount may permanently damage the sensor.



PACKARD ELECTRIC WEATHER PACK SERIES  
 12010717 CONNECTOR (BLACK WITH INDEX CODE 101)  
 (MATES WITH 12015793, CONNECTOR AND  
 12089188, SLEEVE TERMINAL FEMALE)  
 12015323 SEAL (3 SEALS)  
 12089040 PIN (3 PINS)



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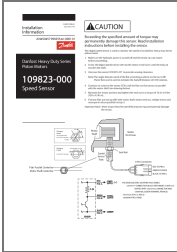
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<b>Danfoss</b> Power Solutions (US) Company 2800 East 13th Street Ames, IA 50010, USA Phone: +1 515 239 6000	<b>Danfoss</b> Power Solutions GmbH & Co. OHG Krokamp 35 D-24539 Neumünster, Germany Phone: +49 4321 871 0
<b>Danfoss</b> Power Solutions ApS Nordborgvej 81 DK-6430 Nordborg, Denmark Phone: +45 7488 2222	<b>Danfoss</b> Power Solutions Trading (Shanghai) Co., L Building #22, No. 1000 Jin Hai Rd Jin Qiao, Pudong New District Shanghai, China 201206 Phone: +86 21 2080 6201

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References

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- [Danfoss - Engineering Tomorrow | Danfoss](#)
- [Hydro-Gear Drivetrain Solutions | Home](#)