## Revision history

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<tr>
<th>Date</th>
<th>Changed</th>
<th>Rev</th>
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<tbody>
<tr>
<td>January 2019</td>
<td>Rebranded to Danfoss Power Solutions</td>
<td>0101</td>
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Safety instructions

R06 general safety

The following safety instructions must be read carefully in order to install and use the product properly and to keep it in perfect working condition and to reduce the risk of misuse.

Potential damage to operator and product.

Do not use this product on machines in potentially explosive atmospheres unless the model is ATEX/RATEX certified to do so.

• Strictly adhere to the installation instructions contained in this document.
• Make sure that professional and competent personnel carry out the installation.
• Ensure that all site and prevailing safety regulations are fully respected.
• Make sure that this document is permanently available to the operator and maintenance personnel.
• Keep the transmission key when the set is not in use.
• On starting each working day, check to make sure that the STOP button and other safety measures are working.
• When in doubt, press the STOP button.
• Whenever several sets have been installed, make sure the transmitter is the right one. Identify the machine controlled on the label for this purpose on the transmitter or by using the display (in case it has one).
• Service the equipment periodically.
• When carrying out repairs, only use spare parts from Danfoss.

R06 safety warnings

Potential damage to operator and product.

Follow the guidelines below to reduce risk of injury to the operator and the product.

• Use the device with the manufacturer's battery and battery charger (if applicable).
• Only allow qualified personnel to operate the equipment.
• Always set the STOP button in the off position when not in use.
• Always press STOP before plugging in tether cable (if applicable).
• Do not operate product when visibility is limited.
• Make sure product is compatible with the machine.
• Avoid knocking or dropping the product.
• Do not use the product if a failure is detected.

Changes or modifications not approved by Danfoss can void the user's authority to operate this product.
Safety instructions

Quick reference precautions

- Remove the transmission key only when the set is not in use or to deny the access.
- When in doubt, press the STOP button.
- Make sure the transmitter works with the machine to be handled.
- After use set the contact key and the STOP button.
- Do not use the set when visibility is limited.
- Avoid knocking or dropping the set.
Technical description

R06 dimensions

Dimensions in mm

See next page for callout details.
Technical description

R06 hardware description

1. Fixing slots
2. Wiring CG
3. Wiring CG
4. AC input
5. IN4D/IN0-10; IN0-4/20mA
6. Signaling LEDs
7. EP70
8. CAN connection
9. BUS termination CAN
10. TR800CE MCX
11. Power supply 48-230 V
12. STOP relays
13. Maneuver relays
14. Internal multi-band antenna
Installation

R06 receiver installation

The below information describes hazards to be aware of during installation and steps to locate the receiver.

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**Risk of shock**

Completely shut down the machine when installing the receiver.

Check the power supply and shut off the main switch to disconnect the interface cable between the receiver and the machine’s electrical box.

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1. Find an easily accessible and clear location with a direct vision between the receiver’s antenna and the transmitter’s working area.

2. Optional: If it is difficult to achieve direct vision between the receiver’s antenna and the transmitter’s working area, it is recommended to use an extended antenna in a clear location (only for models that allow an antenna).

   In areas of high vibration, the use of dampers is advised.

3. Proceed to connect the power supply. Use the connection block diagram provided with the system, where the correspondence between the transmitter maneuvers and the receiver’s outputs are detailed.

4. Check if the electrical installation and verify if there’s an option to connect the neutral or the ground cable. In that case, don’t forget to connect the ground cable.

   The use of fireproof or flame retardant cables are recommended for the connection.
# Troubleshooting

## Receiver troubleshooting

<table>
<thead>
<tr>
<th>LED</th>
<th>Characteristic</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER</td>
<td>Green; pulsing</td>
<td>Receiver is starting up</td>
<td>Wait until start-up process is finished</td>
</tr>
<tr>
<td>HARDOK</td>
<td>Green; continuous</td>
<td>Receiver hardware OK</td>
<td>Operate</td>
</tr>
<tr>
<td></td>
<td>Red; pulsing</td>
<td>EEPROM error; data corruption; CAN bus error (if CANERR activates)</td>
<td>Reprogram EEPROM</td>
</tr>
<tr>
<td></td>
<td>Red; other</td>
<td>Electronic board hardware breakdown</td>
<td>Replace device</td>
</tr>
<tr>
<td>SIGNAL</td>
<td>LED off</td>
<td>No radio signal detected</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LED on + transmitter switched off</td>
<td>Radio channel occupied</td>
<td>Change transmitter’s frequency channel</td>
</tr>
<tr>
<td></td>
<td>LED on + DATA switched off</td>
<td>Radio channel occupied by non Danfoss system</td>
<td>Change transmitter’s frequency channel</td>
</tr>
<tr>
<td>DATA</td>
<td>LED off + SIGNAL LED on</td>
<td>Radio error</td>
<td>Replace radio</td>
</tr>
<tr>
<td></td>
<td>Green; pulse</td>
<td>Receiving good frames</td>
<td>OK</td>
</tr>
<tr>
<td>ID</td>
<td>LED off + DATA LED on</td>
<td>No valid ID; Danfoss system nearby</td>
<td>If channel not occupied, check chosen ID in the transmitter or reset the receiver</td>
</tr>
<tr>
<td></td>
<td>LED on + SIGNAL LED on + DATA LED on</td>
<td>Valid frames received from the transmitter; correct link</td>
<td>OK</td>
</tr>
<tr>
<td>RELAY</td>
<td>Green</td>
<td>STOP relay activated</td>
<td>-</td>
</tr>
<tr>
<td>ORDER</td>
<td>Green</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>
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We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

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