Installation Guide

Remote Control
TM70 and Ikontrol

Danfoss does not take responsibility for incorrect installation or any frequency interference.

Chance of unintended machine movement on start up.
Ensure the machine is stopped for the entire duration of the assembly process.
Keep the work area free and wear protective clothing.

Connect the power supply and the output connections using the connection block diagram provided with the system. The receiver will enter into scanning mode and show the following:

- **ORDER**
- **RELAY**
- **ID**
- **DATA**
- **SIGNAL**
- **HARDOK**
- **POWER**
- **CANRUN**
- **CANERR**

### LED scanning mode (receiver)

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA</td>
<td>There is not another system active in the area</td>
</tr>
<tr>
<td>SIGNAL</td>
<td>OFF; channels are signal free</td>
</tr>
<tr>
<td></td>
<td>BLINKING; RF signal detected on the channels</td>
</tr>
<tr>
<td>HARDOK</td>
<td>GREEN; Absence of faults on the boards</td>
</tr>
<tr>
<td>POWER</td>
<td>Power supply OK</td>
</tr>
<tr>
<td>CANRUN</td>
<td>Communications with expansion boards are OK*</td>
</tr>
</tbody>
</table>

* Only in receivers with CAN connection (except RCAN)

### Display scanning mode (receiver)

1. Place a charged battery in the transmitter
2. Turn the contact key
3. Push and pull out the STOP button
   - The LED of the transmitter will flash orange-green. If the transmitter has a display, it displays the identification of the machine, as well as the battery level
4. Press the start button
   - The green LED should now light indicating the transmitter is transmitting
5. Turn off the transmitter using the STOP button

### LEDs operational mode (receiver)

- **ORDER**
- **RELAY**
- **ID**
- **DATA**
- **SIGNAL**
- **HARDOK**
- **POWER**
- **CANRUN**
- **CANERR**

Correct ID (the icon shows the quality of the link)

Linked state
No Ikusi RF signal detected (the icon shows the quality)
Incorrect ID (the icon shows the quality of the link)

### Display operational mode (receiver)
**TM70 hand-held transmitter**

1. Label for crane identification
2. LED
3. Maneuver button
4. Contact key
5. Start button
6. STOP button
7. Optional: range limiter
8. Battery
9. Removable EEPROM

**Ikontrol console box transmitter**

1. Label for crane identification
2. LED
3. Maneuver element
4. Contact key or multi-key
5. Start button
6. STOP button
7. Optional: range limiter
8. 3.5" color TFT display (IK3); LCD monochrome 128x64 (IK2)
9. Removable EEPROM
10. Tether connection
11. Lateral push buttons
12. Battery

**Contact key**

Insert the multi-key and turn the position from 0 to 1. The machine will not operate in 1 position as this is the natural position of the multi-key.

**Start/horn**

In position 1, release the STOP push button and push start so the transmitter starts emitting. The multi-key can also be used to activate maneuvers such as the horn signal.

**Toggle switch**

The multi-key can also work as a toggle switch, configurable up to 5 positions.