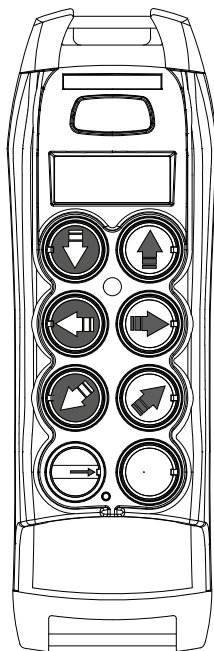


User Manual

Remote Control

T70 1 HALL Transmitter



Revision history*Table of revisions*

Date	Changed	Rev
January 2019	Rebranded to Danfoss Power Solutions	0101

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Safety instructions

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.

safety warnings

Potential damage to operator and product.

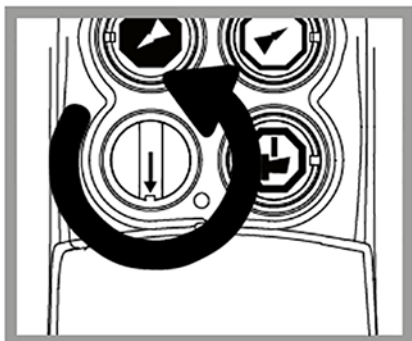
Follow the guidelines below to reduce risk of injury to the operator and the product.

- 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.

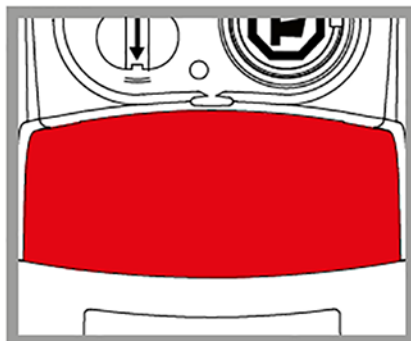
Changes or modifications not approved by Danfoss can void the user's authority to operate this product.

Safety instructions

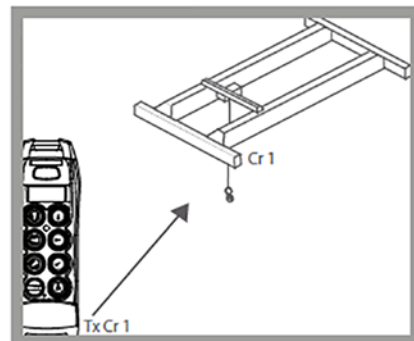
Quick reference precautions



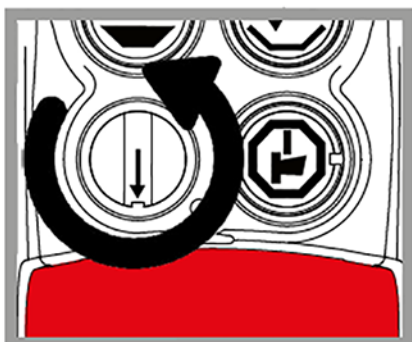
Remove the transmission key only when the set is not in use or to deny the access



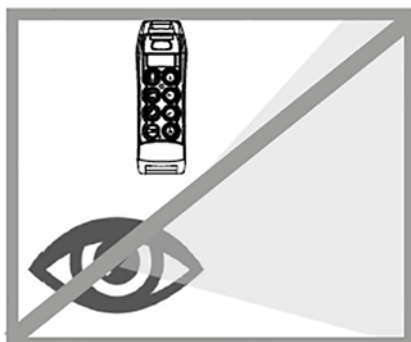
When in doubt, press the STOP button



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

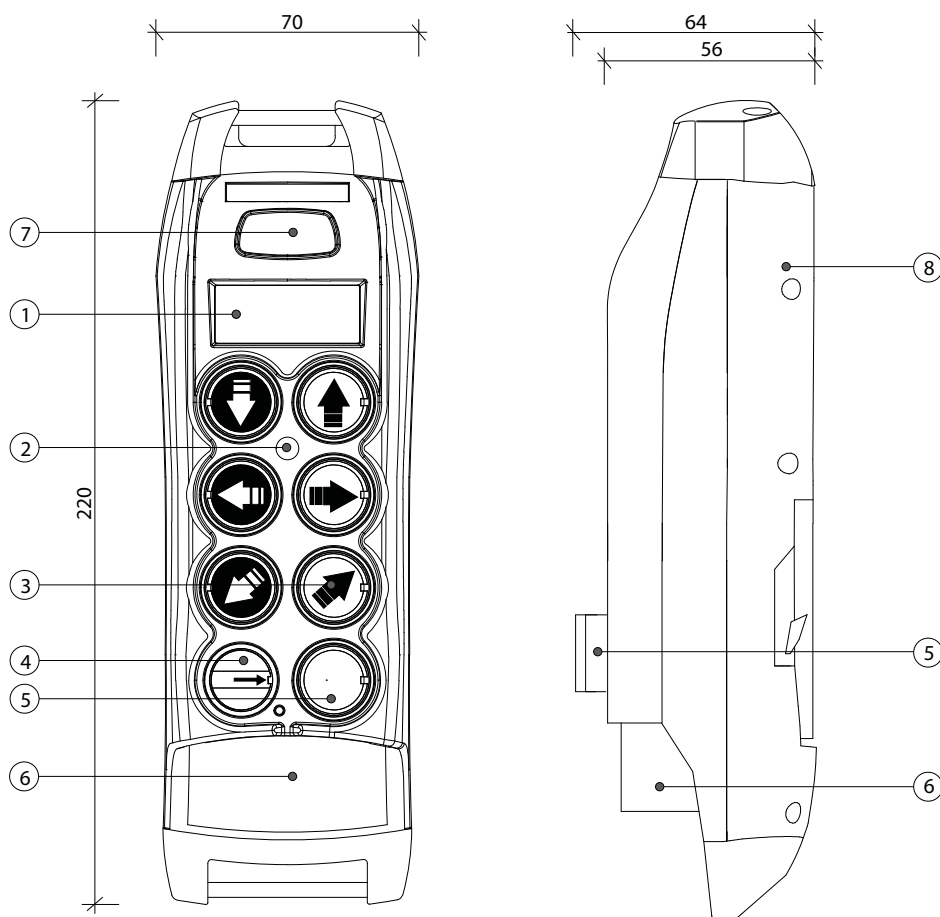


Avoid knocking or dropping the set

Technical description

T70 1 HALL dimensions and identification

Dimensions in mm



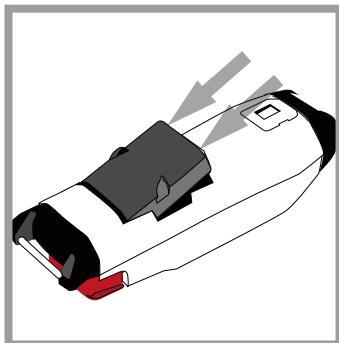
1. Label for crane identification
Option: LCD display
2. LED
3. HALL logic maneuver push buttons (customizable as ON/OFF, 2-step, proportional)
4. Contact key
5. Start button
6. STOP button
7. Option: range limiter
8. External and extractable EP70 EEPROM module
9. Battery

Technical description

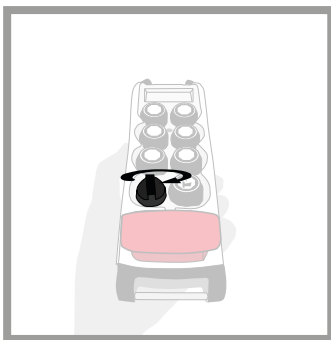
start up

Use the information below to properly turn the transmitter ON (OPERATION mode).

1. Place a charged battery in the transmitter. The charge must be done following the instructions of the Battery Chargers' Manual.

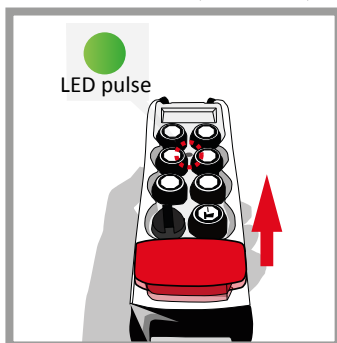


2. Turn the contact key.



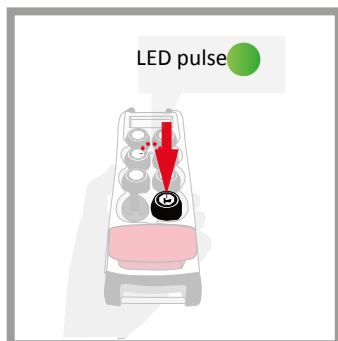
3. Push and pull out the STOP button.

LED will flash orange-green pulse. If the transmitter has LCD, it displays the identification of the machine and battery level (only if it has been pre-programmed).



Technical description

4. Press the start button. The green LED will now light to indicate the transmitter is transmitting. Once the Tx is connected, press any maneuver button and its corresponding relay will be activated. Check to make sure all other maneuvers work in a coherent way with the expected movements.



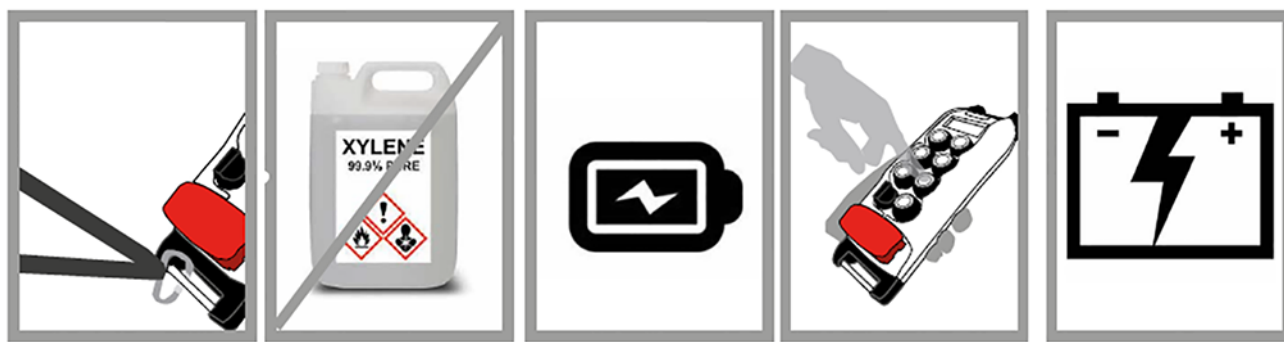
Maintenance

maintenance tips

This product is designed for use in an industrial environment that may shorten the product's lifespan. Use these tips to maximize the lifespan of the product.

- Use the hook/belt provided with the transmitter to prevent the transmitter from falling
- Do not clean the transmitter with solvents or pressurized water; use a damp cloth or soft brush for cleaning
- If the push buttons show signs of deterioration, contact the Authorized Technical Service for repair
- Check if the battery contacts are correct, otherwise replace them.
- Ensure that the product is supplied with AAA alkaline batteries or has a rechargeable battery
- Be sure to recharge or replace battery regularly

Maintenance tips quick reference



troubleshooting

The transmitter has status monitoring LED's which help identify irregularities. The most common signals are contained in the table below:

Color and frequency	Pulse frequency	Description	Action
Green continuous		Working	Operate
Green slow pulses		Latency; no action has been taken for some time	Press START to return to operation mode
Red slow pulses		Low battery signal	Replace or recharge battery
Red fast pulses		EEPROM module missing or corrupt	Check EEPROM and reprogram if necessary
Red double pulses		A maneuver is activated at transmitter start up process; may indicate hardware damage if no order is active	Release maneuver or replace transmitter if necessary
Red continuous		General hardware failure	Replace transmitter

Charger and battery

CB70 and BT06K specifications

CB70 battery charger

Specification	Value
Standard AC power supply	230 Vca $\pm$ 10%, 50
Optional AC power supply	115 Vca, 60 Hz
DC power supply	From 10.5 V to 35V

BT06K battery

Specification	Value
Voltage	4.8 V
Capacity	600 mAh NiMH
Charging temperature	From 0° to 45° C
Discharge temperature	From -20° to 50° C
Autonomy	10 h (use at 50%)
Charging mode	Fast (<2h) and intelligent
Weight	70.3 g

The battery is protected by an internal fuse.

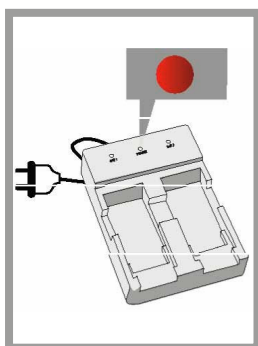
Setting up the CB70 battery charger

Use the information below to properly set up the CB70 batter charger.

The battery charger has two charging compartments that can simultaneously charge two batteries.

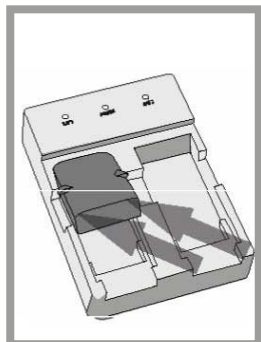
1. Connect the charger to a power source using the cable supplied.

The red LED will switch.



Charger and battery

2. Place the batteries in the compartments of the battery charger.



3. Optional: If charging multiple batteries, wait at least 5 seconds before placing the second battery in the other compartment.

Possible damage to battery!

Be sure to charge batteries in environments with temperatures over 0° C.

CB70 status LEDs

Each battery compartment has an LED that indicates the status of the batteries' charge.

Green LED; pulsing	Battery is excessively depleted
Green LED; continuous	Normal charging operation mode
Green LED; off	Battery charging process is complete

The battery charger must be placed and used out of the danger area.

Remote control battery charging tips

The battery lifespan is estimated to be 500 recharging cycles and is largely dependent on the conditions of use.

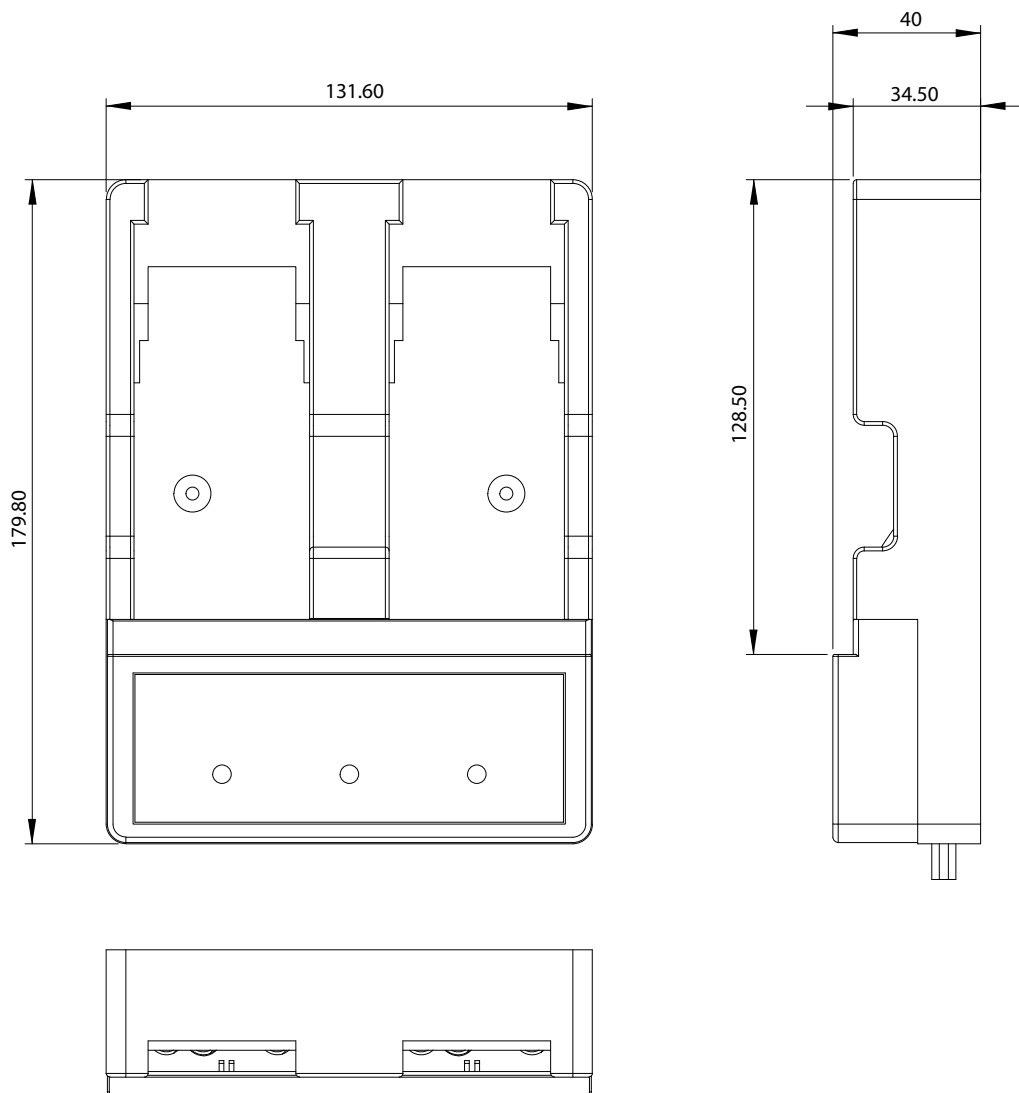
To maximize the lifespan of the batteries and battery charger, follow these tips:

- Do not recharge the battery until needed, as shown with slow, red LED pulse on the transmitter
- Always charge the batteries at temperatures between 0° and 45° C
- Do not leave the battery charger or batteries in direct sunlight
- Charge batteries at least once every six months
- Avoid short circuits between the battery contacts; do not transport charged batteries in toolboxes or next to other metal objects
- Always keep contacts clean

Charger and battery

CB70 battery charger dimensions

Dimensions in mm



Products we offer:

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