

## **Product description:**

The Tünkers handheld module (THM) is used to open or close a connected electrical clamping device manually.

In position "Load Accu" the internal battery is charged by means of the connected charger.

In position "Operate" the device is ready for operation. Status display

LED - green - operating display LED - yellow - diplay Open

LED - red - display Close

## **Technical data:**

Input data: Input voltage:

Charging current battery:

min. 24V DC ±10%, max. 7.2 VA

max. 300 mA

Output da:

Output voltage:

min. 24V DC +20%, max. 24V DC -30% min.:100 W cont., max. /250 W peak

Power: PWM normal mode: max. 100 %

Settings PWM: step 75 %., step 50 %

PWM minimum mode: min.: 25 %

## Standards and directive conformity

Subject to technical modifications.

EN 61326-1:2013 " Electrical equipment for measurement, control and laboratory use. EMC requirements - part 1: General requirements (IEC 61326-1:2012)"

EN 55011:2009 + A1:2010 " Industrial, scientific and medical equipment -Radio-frequency disturbance characteristics - Limits and methods of measurement (IEC/CISPR 11:2009, modified + A1:2010)"

## **Error messages**

1x Error in "open" movement the end position "closed" remains even 1.5 seconds after the drive has been started 2x Error in "close" movement the end position "open" remains even 1.5 seconds after the drive has been started

3x Error in "open" movement the end position "open" is not reached 4x Error in "close" movement the end position "closed" is not reached

5x Error motor driver the internal motor driver reports an error due to thermal or electrical overload

6x Error Klixon contact the thermal switch (Klixon) in the clamp motor has actuated due to high temperature

7x Error AD transformation the internal analog to digital conversion has produced an error Connection diagram

