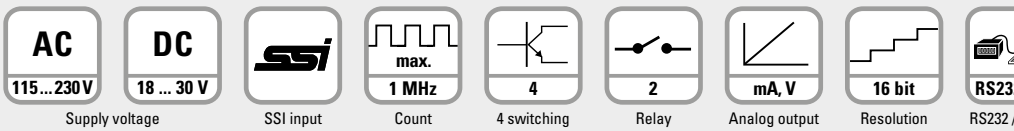
# Position displays with limits

**LCD touch position preset counters** | **SSI absolute encoder display (AC+DC)** | **570T**




**The fast SSI display type 570T is designed for absolute SSI encoders with a resolution up to 32 bits. It can be used as either a master or a slave display.**

**Thanks to simple bit assignment and bit blanking the display, which can be scaled and linearized, can also be cascaded, in order to extend the display range as desired. Output options include 4 limit values, analog output or RS232 or RS485 interface.**




Supply voltage | SSI input | Count frequency | 4 switching outputs | Relay output | Analog output | Resolution analog output | RS232 / RS485 interface | High protection level | Position display

DIN front bezel | LCD touch display | Menu-driven programming | Display linearization | Touch display | Operation with gloves

## Characteristics

- Suitable for SSI-protocols from 10 up to 32 bits.
- 4 switching outputs to work as limit or preset values (reaction time < 1 ms), also with programmable tracking preset.
- Scaleable analog output (reaction time < 150 ms), resolution 16 bit, -10 ... +10 V, 0 ... 20 mA or 4 ... 20 mA.
- Serial interface RS232 or RS485 for reading data in and out.
- Version with 2 relay outputs as limit values or presets; can also be programmed as tracking preset.
- Gray or binary code.
- 96 x 48 mm DIN-housing, IP65.
- Additional speed display.

## Benefits

- AC and DC supply voltage in one unit.
- Master- or slave mode.
- Screw terminal connection.
- SSI-clock frequency from 100 Hz up to 1 MHz.
- Display may be adjusted using scaling- and offset-features.
- Large 13 mm high LCD display, 8-digit, with adjustable brightness. Tri-color – red/green/yellow – programmable.
- Round-loop function.
- 24-point linearization.
- bit blanking.
- Display of position and speed.

## Multifunctional display

Large-scale 4-digit display over the whole display surface.




2-line display modes for the simultaneous display of 2 separate measured or calculated values.



Color change of the display to green, yellow or red.



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## LCD touch position preset counters | SSI absolute encoder display (AC+DC) | 570T

### Order code

6.570T . 01 X . X X X
(a) (b) (c) (d)

**(a)** *Relay outputs*
0 = 2 relay outputs
2 = without output

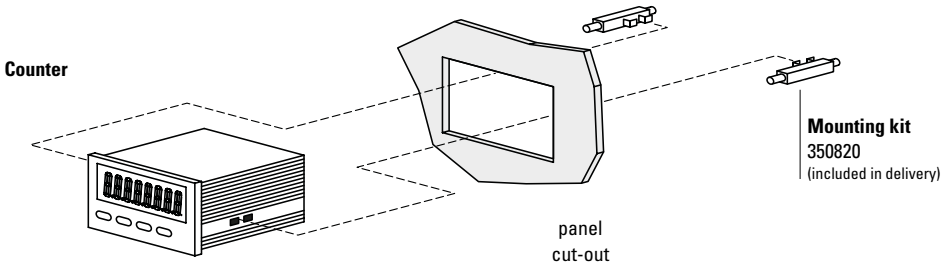
**(b)** *Supply voltage*
3 = 18 ... 30 V DC
E = 18 ... 30 V DC + 115 ... 230 V AC

**(c)** *Further options*
0 = standard
A = with wire break monitoring

**(d)** *Electrical outputs*
0 = none
1 = RS232, 4 switching outputs
2 = RS232, 4 switching outputs, analog output
3 = RS485, 4 switching outputs
4 = RS485, 4 switching outputs, analog output

*Delivery specification*
- Display 570T
- Gasket
- Mounting kit
- Manual German/English

## Accessories / Mounting examples




| | | Type / size | Description | | Order no. | |
|---|---|---|---|---|---|---|
| **Mounting kit** | | | 1 kit consists of 2 latch hooks | | 6.0000.S050.0002 | |
| **Mounting frame** |  | **cut-out 92 x 45 mm [3.62 x 1.77"]** | for snap-on mounting on 35 mm [1.38"] top-hat DIN rail | grey | **6.0000.F100.0001** | |
| **Software for parameter setting OSxx** | | | https://www.kuebler.com/de/docu-finder search box: OS1 | | | |

incl. in delivery


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## LCD touch position preset counters | SSI absolute encoder display (AC+DC) | 570T

## Technical data

### General technical data

| | |
|---|---|
| **Display** | LCD touch display, 13 mm high<br>8 decades + sign, 3-color |
| **Operating temperature** | -20 °C ... +60 °C [-4 °F ... +140 °F]<br>(non-condensing) |
| **Storage temperature** | -25 °C ... +70 °C [-13 °F ... +158 °F] |
| **Altitude** | up to 2000 m [6562’] |

### Electrical characteristics

| | | |
|---|---|---|
| **Supply voltage** | | 18 ... 30 V DC, with reverse polarity protection (rated voltage 24 V DC)<br>115 ... 230 V AC, 50/60 Hz (option) |
| **Current consumption DC** | | 100 mA, without load |
| **Power consumption AC** | | approx. 3 VA, without load |
| **Auxiliary power supply (for sensors)**<br>(in case of wire break monitoring, switchable from 24 V DC to 5 V DC / 250 mA) | | |
| | AC supply | 24 V DC ±15 %,<br>150 mA (up to +45 °C)<br>80 mA (from +46 °C) |
| | DC supply | $U_B$ - 1 V, 250 mA |
| **Device safety** | designed to | EN 61010 part 1 |
| | protection class | 2 |
| | application area | pollution level 2 |

### Mechanical characteristics

| | |
|---|---|
| **Housing** | ABS UL94–V-0 |
| **Weight** | approx. 200 g |
| **Protection** | IP65 (front side)<br>IP20 (rear side) |
| **Terminals** | max. 1.5 mm² |

### Inputs

| | | |
|---|---|---|
| **SSI interface** | | differential RS422 input/output |
| | clock frequency | 100 Hz ... 1 MHz |
| | input level | RS422: > 0.5 V |
| | load | max. 3 mA / Ri > 10 kΩ / 47 pF |
| **3 control inputs** (Cnt 1 - 3) | | PNP |
| | input frequency | max. 10 kHz |
| | input level | HTL: Low 0 ... 3 V / High 9 ... 30 V |
| | load | max. 2 mA / Ri > 15 kΩ / 470 pF |

### Outputs (option)

| | | |
|---|---|---|
| **4 switching outputs** | | 5 ... 30 V DC/200 mA (PNP) |
| | reaction time | < 1 ms |
| **Interface** | | RS232 or RS485<br>Drivecom protocol / Modbus / Printer<br>9600 ... 38400 Baud |
| **Analog output** | | -10 ... +10 V (max. 2 mA) or<br>0 ... 20 mA, 4 ... 20 mA (max. 270 Ω) |
| | resolution | 16 bit (15 bit + sign) |
| | accuracy | ±0.1 % |
| | reaction time | < 150 ms |
| **Relay output** | | 2 changeover contacts<br>(potential free)<br>max. 250 V AC / 3 A / 750 VA<br>max. 150 V DC / 2 A / 50 W |
| | reaction time | < 20 ms |

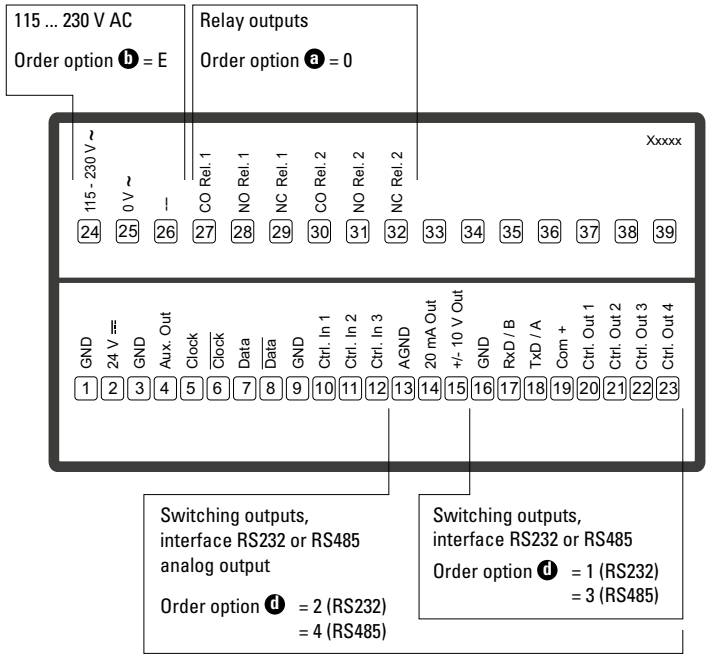
### Approvals

| | |
|---|---|
| **CE compliant** in accordance with | |
| EMC Directive | 2014/30/EU |
| RoHS Directive | 2011/65/EU |
| Low Voltage Directive | 2014/35/EU |

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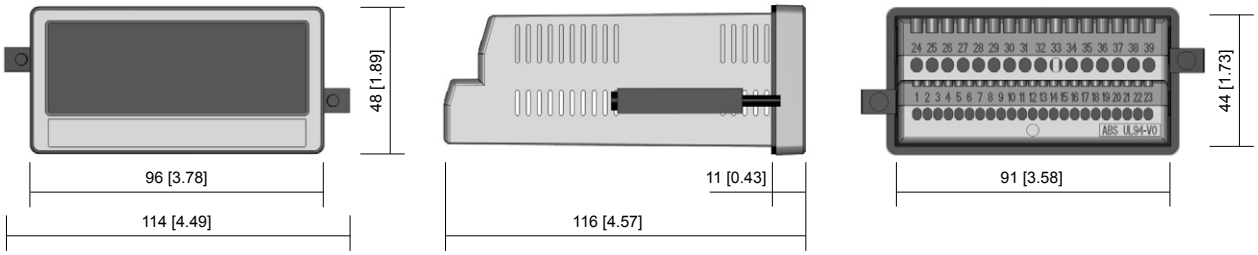
## LCD touch position preset counters | SSI absolute encoder display (AC+DC) | 570T

### Terminal assignment




### Dimensions

Dimensions in mm [inch]




Panel cut-out
92 x 45 mm [3.62 x 1.77"]


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