

# 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.



<b>AC</b> 115... 230V Power supply	<b>DC</b> 18... 30 V Power supply	<b>SSI</b> SSI input	<b>max.</b> 1 MHz Count frequency	<b>4</b> 4 switching outputs	<b>2</b> Relay output	<b>mA, V</b> Analog output	<b>16 bit</b> Resolution analog output	<b>RS 232 / 485</b> RS232 / RS485 interface	<b>IP65</b> High protection level	<b>POSITION</b> Position display
<b>DIN 96 x 48</b> DIN front bezel	<b>8 LCDs</b> LCD touch display	<b>Menu-driven programming</b>	<b>SSI</b> Display linearization	<b>Touch display</b>	<b>Operation with gloves</b>					

## Characteristics

- Suitable for SSI-protocols from 8 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 < 1 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.

## Benefits

- AC and DC power supply 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.

Position-displays

**Order code**    **6.570T . 01X . XXX**

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

**b** Power supply  
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

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

**Stock types**  
6.570T.012.301  
6.570T.012.302  
6.570T.010.302  
6.570T.010.E02

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<b>Accessories</b>			Order no.
<b>Mounting frame</b> with cut-out 92 x 45 [3.62 x 1.77]	for snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 96 x 48 [3.74 x 1.89]	grey	<b>G300005</b>
<b>OS6.0 software for parameter setting</b>	can be downloaded at <a href="http://www.kuebler.com">www.kuebler.com</a>		

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: [www.kuebler.com/accessories](http://www.kuebler.com/accessories).

## Technical data

General technical data	
<b>Display</b>	LCD touch display, 13 mm high 8 decades + sign
<b>Operating temperature</b>	-20°C ... +60°C [-4°F ... +140°F] (non-condensing)
<b>Storage temperature</b>	-25°C ... +70°C [-13°F ... +158°F]
<b>Altitude</b>	up to 2000 m [6562']
Electrical characteristics	
<b>Power supply</b>	18 ... 30 V DC, with reverse polarity protection (rated voltage 24 V DC) 115 ... 230 V AC, 50/60 Hz (option)
<b>Current consumption DC</b>	100 mA, without load
<b>Power consumption AC</b>	approx. 3 VA, without load
<b>Auxiliary power supply (for sensors)</b> (in case of wire break monitoring, switchable from 24 V DC to 5 V DC / 250 mA)	
AC supply	24 V DC ±15 %, 150 mA (up to +45°C) 80 mA (from +46°C)
DC supply	U <sub>B</sub> - 1 V, 250 mA
<b>EMC standards</b>	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-3-2
<b>Device safety</b>	designed to protection class application area
	EN 61010 part 1 2 pollution level 2

Mechanical characteristics	
<b>Housing</b>	ABS UL94-V-0
<b>Weight</b>	approx. 200 g
<b>Protection</b>	IP65 (front side) IP20 (rear side)
<b>Terminals</b>	max. 1.5 mm <sup>2</sup>

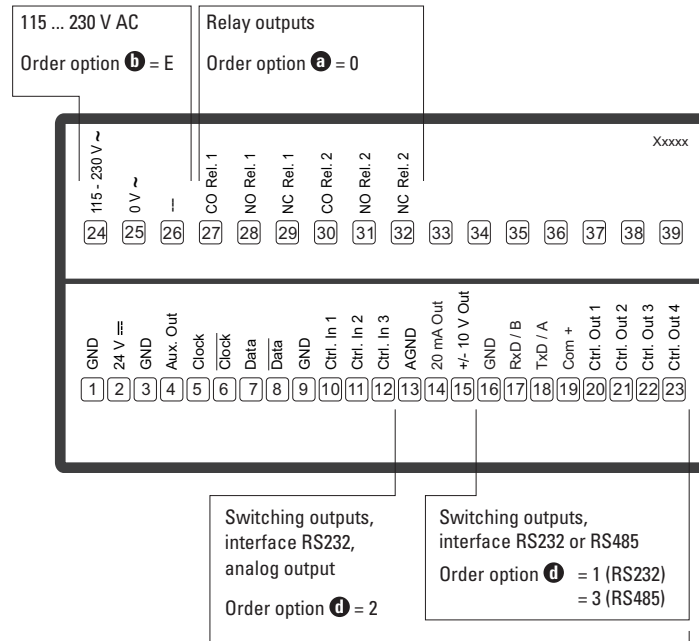
Inputs	
<b>SSI interface</b>	differential RS422 input/output
clock frequency	100 Hz ... 1 MHz
input level	RS422: > 0.5 V
load	max. 3 mA / Ri > 10 kΩ / 47 pF
<b>3 control inputs (Cnt 1 - 3)</b>	PNP
input frequency	max. 10 kHz
input level	HTL: Low 0 ... 3 V / High 9 ... 30 V
load	max. 2 mA / Ri > 15 kΩ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

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

# Position displays with limits

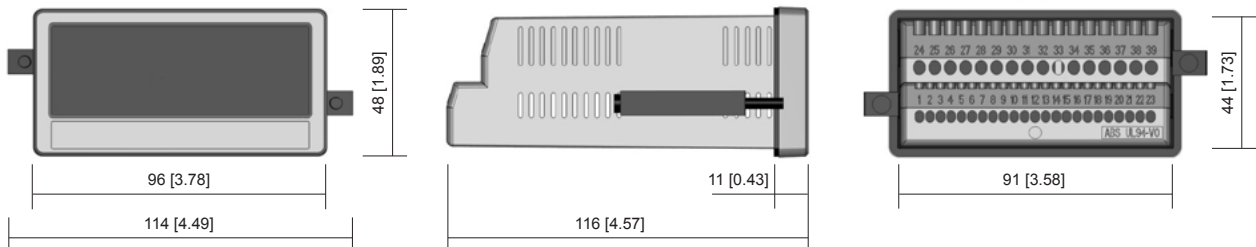
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## Terminal assignment



## Dimensions

Dimensions in mm [inch]



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