

# Position displays with limits

LCD touch position preset counters	SSI absolute encoder display (AC+DC)	570T
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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...230 V Supply voltage	<b>DC</b> 18 ... 30 V Supply voltage	<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>RS232/485</b> RS232 / RS485 interface	<b>IP65</b> High protection level	<b>Position</b> Position display
<b>DIN 96x48</b> DIN front bezel	<b>8 LCDs</b> LCD touch display	<b>Prog</b> Menu-driven programming	<b>SSI</b> Display linearization	<b>Touch display</b> Touch display	<b>Operation with gloves</b> Operation with gloves					

## 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 < 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.
- New: 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.



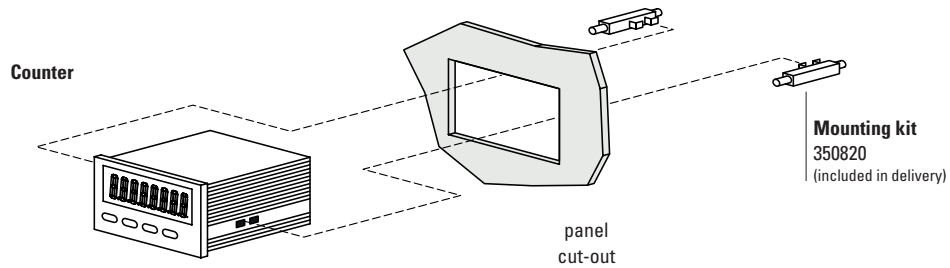
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<b>Order code</b>	<b>6.570T . 01 X . XXX</b>
	<span style="border: 1px solid black; padding: 2px;">a</span> <span style="border: 1px solid black; padding: 2px;">b</span> <span style="border: 1px solid black; padding: 2px;">c</span> <span style="border: 1px solid black; padding: 2px;">d</span>

<p><b>a Relay outputs</b> 0 = 2 relay outputs 2 = without output</p> <p><b>b Supply voltage</b> 3 = 18 ... 30 V DC E = 18 ... 30 V DC + 115 ... 230 V AC</p>	<p><b>c Further options</b> 0 = standard A = with wire break monitoring</p> <p><b>d Electrical outputs</b> 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</p>	<p><i>Delivery specification</i></p> <ul style="list-style-type: none"> <li>· Display 570T</li> <li>· Gasket</li> <li>· Mounting kit</li> <li>· Manual German/English</li> </ul>	<p><i>Stock types</i></p> <p>6.570T.012.301 6.570T.012.302 6.570T.010.302 6.570T.010.E02</p>
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## Accessories / Mounting examples



		Type / size	Description		Order no.	
<b>Mounting kit</b>			1 kit consists of 2 latch hooks		<b>350820</b>	
<b>Mounting frame</b>		<b>cut-out</b> 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	<b>G300005</b>	–
<b>Software for parameter setting OSxx</b>			<a href="https://www.kuebler.com/de/docu-finder">https://www.kuebler.com/de/docu-finder</a> search box: OS1			

incl. in delivery

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## Technical data

General technical data	
<b>Display</b>	LCD touch display, 13 mm high 8 decades + sign, 3-color
<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>Supply voltage</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>Device safety</b>	designed to EN 61010 part 1 protection class 2 application area 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 / R <sub>i</sub> > 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 / R <sub>i</sub> > 15 kΩ / 470 pF

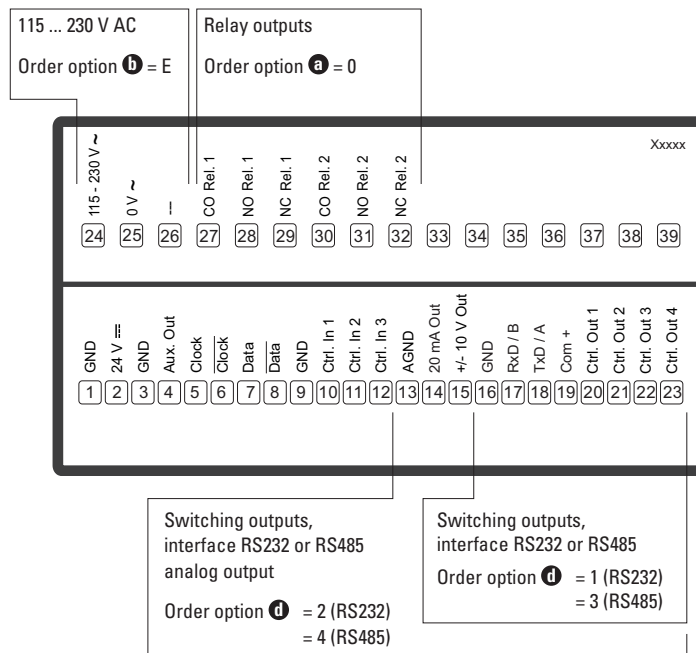
Outputs (option)	
<b>4 switching outputs</b>	5 ... 30 V DC/200 mA (PNP)
reaction time	< 1 ms
<b>Interface</b>	RS232 or RS485 Drivecom protocol / Modbus / Printer 9600 ... 38400 Baud
<b>Analog output</b>	-10 ... +10 V (max. 2 mA) or 0 ... 20 mA, 4 ... 20 mA (max. 270 Ω)
resolution	16 bit (15 bit + sign)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

Approvals	
<b>CE compliant</b> in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU
<b>UKCA compliant</b> in accordance with	
EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
Low Voltage Regulations	S.I. 2016/1101

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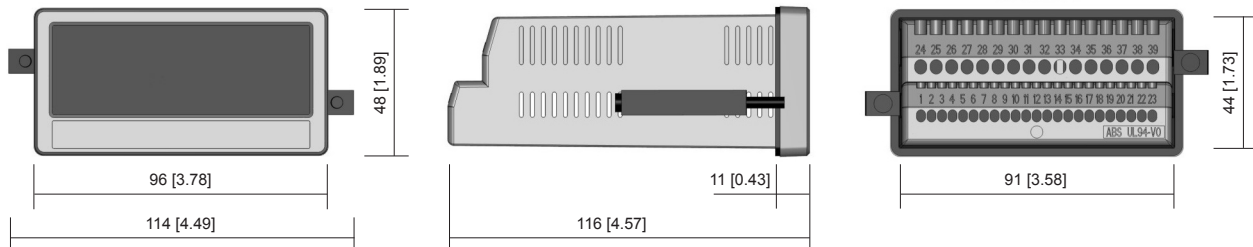
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## Terminal assignment



## Dimensions

Dimensions in mm [inch]



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