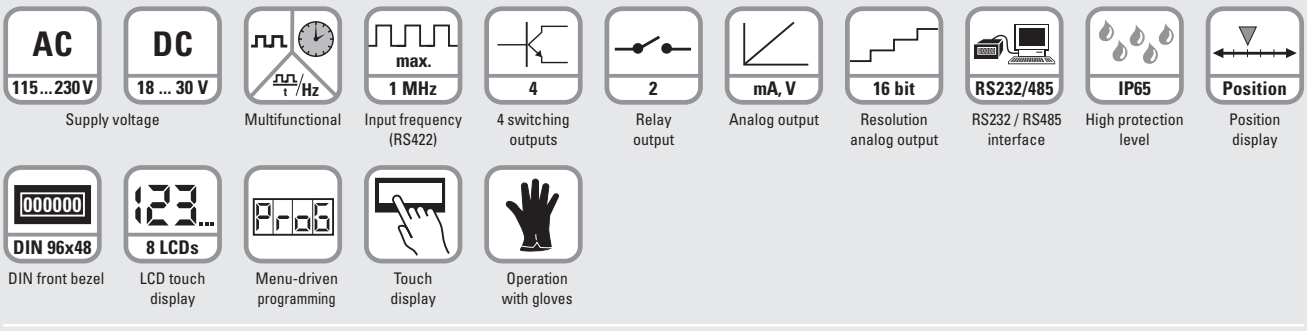
LCD touch multifunction preset counters | Pulse, frequency, time (also reciprocal) – (AC+DC) | 571T



The multifunction preset counter 571T with its max. 250 kHz count frequency is ideal for fast counting tasks. It can also be used as a tachometer, short time meter, stop-watch or to measure machine cycle times or throughput times.

Output options include 4 limit values, analog output and RS232 or RS485 interface.

This device is thus able to carry out virtually all count, measurement and control tasks.



Characteristics

- Fast count input, works with our Limes measuring system (250 kHz/HTL, 1 MHz/RS422).
- 4 switching outputs to work as limit values (reaction time < 1 ms).
- Scalable 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.
- Sensor power supply 24 V DC / 150 mA (AC version) or U_B - 1 V / max. 250 mA (DC version).
- 96 x 48 mm DIN housing, IP65.
- Touch display with 8-digit display value and menu-driven programming.
- 2 relay outputs that can be assigned to the limit values.

Benefits

- AC and DC supply voltage in one unit.
- Measuring function can be programmed for RPM, speed, speed from elapsed time, machine cycle time, throughput time (reciprocal rotary speed), as well as numerous count and stop-watch functions.
- 4 switching outputs; can also be programmed as a tracking preset.
- Freely programmable.
- Large 13 mm high LCD display, 8-digit, with adjustable brightness. Tri-color – red / green / yellow – programmable.
- Display linearization with teach function.

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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Order code

6.571T . 01 X . X X X
(a) (b) (c) (d)

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

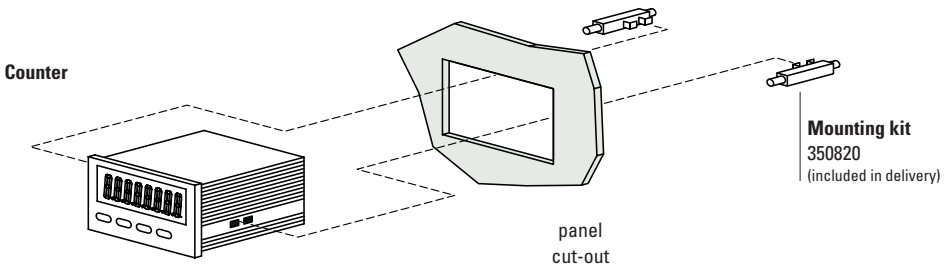
(b) *Supply voltage*
3 = 18 ... 30 V DC
E = 18 ... 30 V DC + 115 ... 230 V AC

(c) *Further options*
0 = HTL count inputs (standard)
A = RS422 / HTL differential / HTL count inputs (option)

(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	*Stock types*
· Display 571T	6.571T.012.301
· Gasket	6.571T.012.302
· Mounting kit	6.571T.010.302
· Manual German/English	6.571T.010.E02

Accessories / Mounting examples



		Type / size	Description		Order no.	
Mounting kit			1 kit consists of 2 latch hooks		350820	
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	**G300005**	–
Software for parameter setting OSxx			https://www.kuebler.com/de/docu-finder search box: OS1			

incl. in delivery

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Technical data

General technical data

Display	LCD touch display, 13 mm high 8 decades + sign, 3-color
Operating temperature	-20 °C ... +60 °C [-4 °F ... +140 °F] (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) 115 ... 230 V AC, 50/60 Hz (option)
Current consumption DC		100 mA, without load
Power consumption AC		approx. 3 VA, without load
Auxiliary voltage for sensors (with RS 422 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_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) IP20 (rear side)
Terminals	max. 1.5 mm²

Inputs

2 incremental inputs (A, B)			
HTL (standard)	pulse	Tri-State, PNP, NPN and Namur	
	input frequency	max. 250 kHz	
	input level	Low: 0 ... 3 V / High: 9 ... 30 V	
	load	max. 6 mA / Ri > 5 kΩ / 470 pF	
4 incremental inputs (A, /A, B, /B) **RS422 / HTL differential / HTL PNP-NPN** (option)			
	input frequency	RS422:	max. 1 MHz
		HTL differential:	max. 500 kHz
		HTL:	max. 250 kHz
	input level	RS422:	> 0.5 V
		HTL differential:	> 2 V
		HTL:	Low 0 ... 3 V / High 9 ... 30 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	
Accuracy frequency		±1 ppm ±1 digit	

Outputs (option)

4 switching outputs		5 ... 30 V DC/200 mA (PNP)
	reaction time	< 1 ms
Interface		RS232 or RS485 Drivecom protocol / Modbus / Printer 9600 ... 38400 Baud
Analog output		-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
Relay output		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

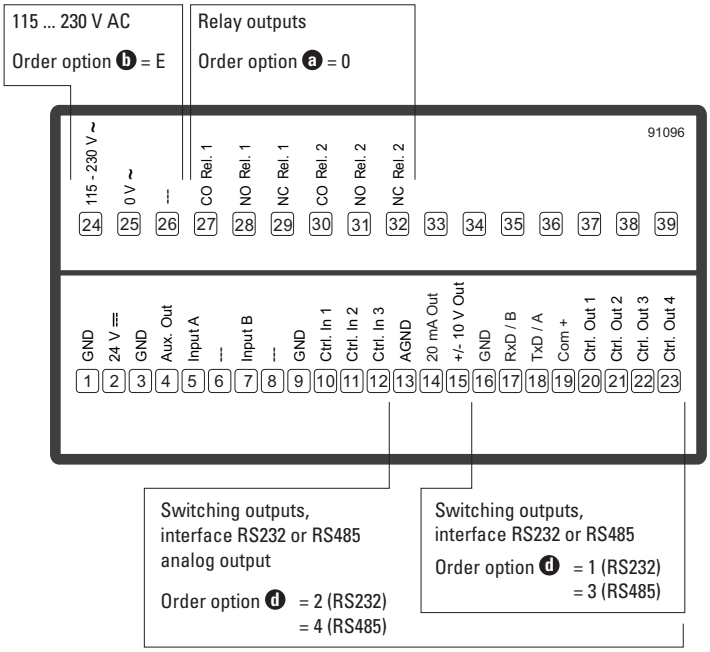
Approvals

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

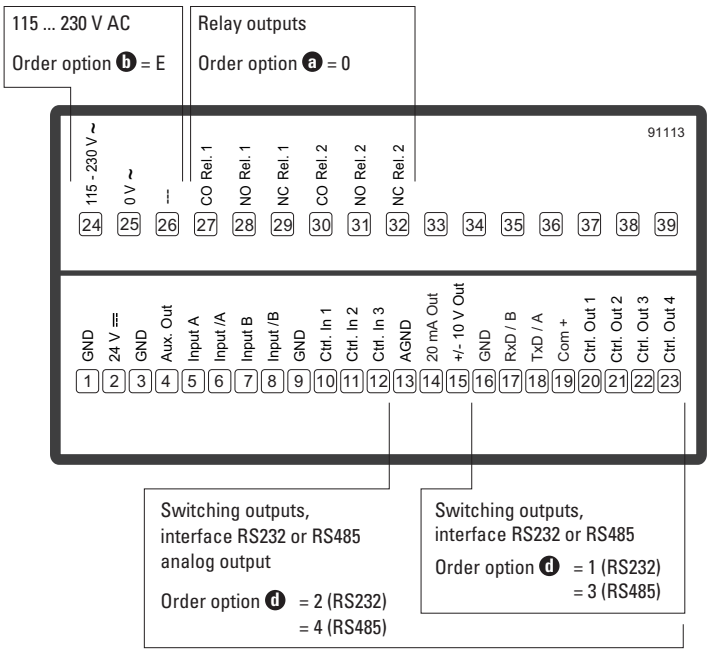
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Terminal assignment HTL (standard)

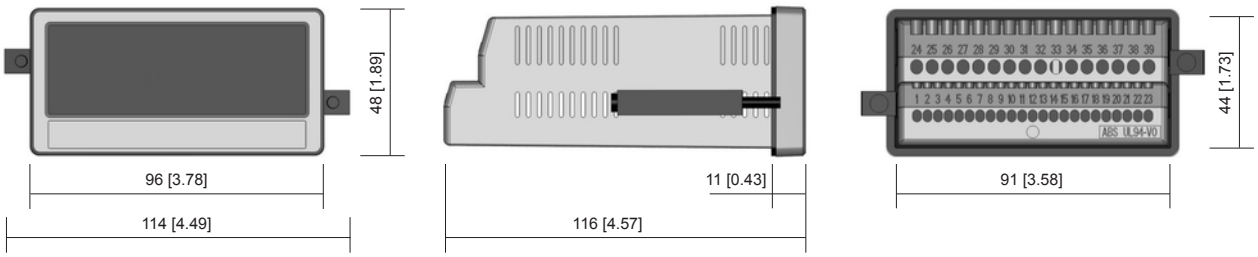


Terminal assignment RS422 / HTL differential / HTL (option)



Dimensions

Dimensions in mm [inch]



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

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